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Rückstände von Pflanzenschutz- und Vorratsschutzmitteln

von sonstigen Schädlingsbekämpfungs- und Unkrautbekämpfungs-
mitteln sowie von Mitteln zur Beeinflussung
des Pflanzenwachstums

Literatur-Übersicht

Zusammengestellt

von

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Einleitung

Im Zusammenhang mit der Anwendung von Pflanzen- und Vorratsschutzmitteln ist seit jeher der Frage unerwünschter Nebenwirkungen dieser Erzeugnisse bei der Anwendung oder auf den Verbraucher von Ernteprodukten Beachtung geschenkt worden; der Kreis der Bearbeiter, die sich mit diesen Problemen zu befassen hatten, war jedoch relativ klein. Seitdem aber die Intensivierung des Pflanzenbaues in den verschiedenen Ländern auch intensivere Pflanzenschutzmaßnahmen und verstärkten Vorratsschutz notwendig gemacht hat, ist diese Frage insbesondere hinsichtlich etwaiger Rückstände aus derartigen Maßnahmen auf und in Nahrungs- und Futtermitteln in den Mittelpunkt des allgemeinen Interesses getreten. Die noch zunehmende Anwendung von Pflanzenschutzmitteln hat daher weitergehende Untersuchungen auf diesem Gebiet allenthalben unumgänglich gemacht. Im deutschen Bundesgebiet wird der Erlaß einer Novelle zum Lebensmittelgesetz bedeuten, daß sich mit speziellen Untersuchungen über Rückstände von Pflanzen- und Vorratsschutzmitteln wesentlich mehr Stellen, wie z. B. auch die Lebensmitteluntersuchungsanstalten, befassen müssen, als es bisher der Fall war.

Um das Einarbeiten in dieses Sondergebiet möglichst zu erleichtern, erscheint es zweckmäßig, die Literatur über Vorkommen, Wirkungen und Analyse der Rückstände von Pflanzen- und Vorratsschutzmitteln, die an sehr verstreuten Stellen veröffentlicht ist und deren grundlegende Arbeiten sich vielfach in weniger leicht zugänglichen ausländischen Zeitschriften befinden, möglichst übersichtlich zusammenzustellen. Auch mag eine solche Zusammenstellung zeigen, daß diese Fragen bereits in vielfacher Richtung und sehr eingehend bearbeitet worden sind und daß daher die gelegentlich vorgebrachte Behauptung, „man wisse von diesen Dingen so gut wie nichts“, dem Sachverhalt nicht gerecht wird.

Im Hinblick auf den praktischen Zweck der Zusammenstellung ist folgende Einteilung gewählt worden:

- A) Rückstände von Pflanzenschutzmitteln allgemein. Hierin sind die Arbeiten eingeordnet worden, die Angaben enthalten über Höhe von Rückständen (Ergebnisse aus Versuchen und nach praktischer Anwendung), Toleranzen, Geschmacksbeeinflussung.
- B) Wirkung von Rückständen auf den tierischen Körper, z. B. Speicherung, Umwandlungsprodukte, Ausscheidung in der Milch.
- C) Wirkung von Rückständen auf die Pflanze, z. B. Veränderung pflanzlicher Inhaltsstoffe und der sonstigen Qualität, Verbleiben der Wirkstoffe in der Pflanze, Umwandlungsprodukte.

D) Wirkung der Rückstände auf den Boden, z. B. auf Bodenorganismen, Haltbarkeit im Boden.

E) Analytische Bestimmungsmethoden für Rückstände:

1. chemische Bestimmungsmethoden
2. Bioteste.

Die vorgenannte Einteilung ließ sich allerdings nicht in jedem Fall streng einhalten, da Analysenmethoden und Untersuchungsergebnisse vielfach in derselben Arbeit beschrieben werden. Sofern es sich in solchen Fällen um neue Analysenmethoden handelt oder um Methoden, die zwar bekannt, aber etwa auf spezielle Ernteerzeugnisse zugeschnitten sind, sind die betreffenden Arbeiten unter „Analytische Bestimmungsmethoden“ aufgeführt. Zahlreiche Arbeiten befassen sich gleichzeitig mit der Wirkung oder dem Verhalten von Rückständen in Pflanze und Tier. Solche Arbeiten sind — soweit möglich — nach der Wichtigkeit oder dem Umfang der Ergebnisse in eine der beiden Gruppen eingereiht worden. Eine weitergehende Einteilung der Veröffentlichungen, etwa nach Art der Wirkstoffe, hat sich nur bei den analytischen Bestimmungsmethoden durchführen lassen.

In der Hauptsache sind die in dem Zeitraum von 1955 bis Ende 1957 erschienenen Arbeiten zusammengestellt worden, da wichtige Verfahren und Hinweise für die hier in Betracht kommenden Untersuchungen besonders in dieser Zeit veröffentlicht worden sind. Lediglich einige besonders wichtige ältere Arbeiten sind aufgenommen. Da eine baldige Unterrichtung der Dienststellen und Laboratorien wegen der in Kürze zu erwartenden gesetzlichen Neuregelung erwünscht erscheint, ist davon abgesehen worden, das Erscheinen von Referaten über Arbeiten aus Zeitschriften, die hier zur Zeit nicht zugänglich sind, abzuwarten. Die betreffenden Literaturhinweise werden bei der Fortsetzung dieser Zusammenstellung, die in nicht zu langen Zeitabschnitten vorgesehen ist, nachgeholt werden.

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Literatur-Übersicht

- A) Angaben über die Höhe der Rückstände (auch Toleranzen) auf oder in Erntegut und sonstigen Nahrungsmitteln wie Obst, Gemüse, Getreide, Mehl, Getränke, Konserven u. a. sowie über deren Einwirkung auf den Menschen.
- Adams, A. M.:** Some effects of captan spray residues on sweet cherry fermentations. Ontario hortic. Exp. Stat. Rept. 1953—54, 104.
- Aiazzi-Mancini, M., e Pepeu, G.:** Studio tossicologico del parathion presente nell'olio di oliva di uso alimentare. Arch. ital. Sci. farmacol. 5 (1). 1955, 70—86. — Bull. analyt., Paris, 16. 1955, 4475.
- Allen, W. W.:** Remarks concerning the Pesticide Chemicals Amendment to the Pure Food, Drug, and Cosmetic Law. Proc. Calif. Weed Conf. 8. 1956, 5—10.
- Allen, W. R., and Berck, B.:** DDT residues on celery resulting from dust treatments for control of the tarnished plant bug (*Lygus oblineatus*). Sci. Agric., Ottawa, 30. 1950, 375-379. — Chem. Zentralbl. 122. 1951, 3108.
- Allen, W. R., Richardson, H. P., Berck, B., and Robinson, A. G.:** DDT residues on currents and gooseberries. Sci. Agric., Ottawa, 30. 1950, 380-383. — Chem. Zentralbl. 122. 1951, 3108.
- Alphin, T. H.:** Chemical warfare. Food contamination. What's New Home Econ. 17 (6). 1953, 58.
- An der Lan, H.:** Moderne Schädlingsbekämpfungsmittel und ihre Gefahren. Naturwiss. Rundschau 10. 1957, 451-453.
- An der Lan, H.:** Möglichkeiten und Gefahren der modernen Schädlingsbekämpfung. Prakt. Schädl.bekämpfer 9. 1957, 9-11.
- Anderson, L. D.:** Residue problems in row crops. West. Grower, Shipper 27 (6). 1956, 17-18, 38, 41, 44.
- Angier, H.:** Tolerances for pesticide residues in or on fresh fruits. Calif. Grape, Tree Fruit League News Let. 258. 1955, 2 p.
- App, B. A., Carter, R. H., and Ely, R. E.:** Residues on forage in the soil, and in milk following pasture treatment with granulated dieldrin. J. econ. Ent. 49. 1956, 136-137. — Bull. signal., Paris, 17. 1956, 2550.
- App, F.:** Chemical agents and residues in foods, the grower's viewpoint. Food Technol., London, 5. 1951, 107-110.
- Apple, J. W., and Martin, R.:** Pea aphid control with Demeton in relation to pea plant maturity. (Includes residues.) J. econ. Ent. 48. 1955, 193-195.

- Arbuckle, W. S.:** Off-flavors can be prevented; milk rejections can be practically eliminated by regulated grazing, mowing; or by timely use of weed chemicals. *Hoard's Dairyman* 98. 1953, 331.
- Arle, H. F.:** The effect of aromatic solvents and other aquatic herbicides on crop plants and animals. *Proc. West. Weed Control Conf.* 12. 1950, 58-60.
- Arthur, B. W., and Casida, J. E.:** Mode of action of insecticides: Metabolism and selectivity of O,O-dimethyl 2,2,2-trichloro-1-hydroxyethyl phosphonate and its acetyl and vinyl derivatives. *J. agric., Food Chem., Washington*, 5. 1957, 186-192.
- Atkins, W. G., and Greer, E. N.:** The storage of flour in jute bags treated with insecticides. *J. Sci. Food, Agric., London*, 4. 1953, 155-160.
- Atkinson, R. M., Dickinson, D., and Harris, F. J. T.:** Arsenical contamination of chicory during drying. *J. Sci. Food, Agric., London*, 1. 1950, 264-266.
- Aylward, F.:** Toxic chemicals in agriculture and their effect on foodstuffs. *Nature, London*, 173. 1954, 1063-1064.
- Bacon, O. G., and Erwin, W. R.:** DDT residues on corn. *Agric. Chem., Baltimore*, 11 (4). 1956, 85.
- Bacon, O. G., and Erwin, W. R.:** DDT residues on sweet corn; kernels and cob of corn treated with DDT remain practically free of residues but amounts on plant restrict use as fodder. *Calif. Agric., Berkeley*, 10 (2). 1956, 11-12.
- Bär, F.:** Gesundheitsgefährdung durch chemische Pflanzenschutzmittel. *Anz. Schädl.kunde* 29. 1956, 85-87.
- Bär, F.:** Hygienisch-toxikologische Pflanzenschutzprobleme. *Mitt. Biol. Bundesanst., Berlin-Dahlem*, H. 85. 1956, 96-108.
- Bär, F.:** Die Insektizid-Rückstände im Pflanzenschutz. *Ztschr. angew. Zool.* 2. 1956, 191-206.
- Bär, F.:** Schädlingsbekämpfungsmittel, ihre Einwirkung auf Lebensmittel und ihr Nachweis. *Ztschr. Lebensm.-Untersuch., -Forsch.* 105. 1957, 104-121.
- Bär, F.:** Zur Frage der Gesundheitsgefährdung des Menschen durch die Insektizide Dichlordiphenyl-trichlormethyl-methan u. γ -Hexachlorcyclohexan. *Arzneim.-Forsch.* 6. 1956, 242-251.
- Baier, W. E.:** Citrus by-products and derivatives — an introductory survey. *Food Technol., London*, 9. 1955, 78-80.
- Baier, W. E., and Wilson, C. W.:** Proposed basis for tolerances of insecticide residues in food products. *Food Technol., London*, 5. 1951, 38-40. — *J. Food, Drug, Cosmetic Law* 9. 1954, 170.
- Bailey, J. S., Esselin jr., W. B., and Wheeler, E. H.:** Off-flavors in peaches sprayed with benzene hexachloride. *J. econ. Ent.* 42. 1949, 774-776.
- Bailey, S. F., and Smith, L. M.:** Toxicity hazards. *Insecticides and other chemicals. Agric. Chem., Baltimore*, 6 (5). 1951, 35-37, 109, 111.
- Bakhuis, J. A.:** Einfluß von Insektiziden auf die Verbrauchsqualität von Kartoffeln. (Original holländisch.) *Versl. Centr. inst. landbouwkdg. Onderz., 's-Gravenhage*, 1953. 1954, 144-152.
- Ball, W. L.:** Threshold limits for pesticides. *A. M. A. Arch. ind. Health* 14. 1956, 178-185.
- Ball, W. L., Fairhall, L. T., Kay, K., Stokinger, H. E., Vorwald, A. J., Weller, L. F., and Coleman, A. L.:** Threshold limit values for 1955 (includes toxicity of insecticides to man). *A. M. A. Arch. ind. Health* 11. 1955, 521-524.
- Barnes, J. M.:** Crop protection as a health hazard. *Chem. and Ind. (Rev.)*, London, June 1953, 625-627.
- Barnes, J. M.:** The health hazards associated with the use of insecticides for vector control. In: *International Symposium on the Control of Insect Vectors of Disease (Fondazione Emanuele Paterno, Roma 1954)*, p. 275-289.

- Barnes, J. M.:** Problem of toxic residues (of pesticides). *J. Sci. Food, Agric.*, London, 7. 1956, 60-61.
- Barnes, J. M.:** Select bibliography on the toxicology of pesticides in man and mammals. *Bull. World Health Org.*, Geneva, 8. 1953, 535-589.
- Barnes, J. M.:** Toxic hazards of certain pesticides to man. *Bull. World Health Org.*, Geneva, 8. 1953, 419-490.
- Barnes, J. M.:** Toxic hazards of certain pesticides to man; together with a select bibliography on the toxicology of pesticides in man and mammals. *Bull. World Health Org.*, Geneva, Monogr. ser. 16. 1953.
- Barnes, M. M., Carman, G. E., Ewart, W. H., and Gunther, F. A.:** Fruit surface residues of DDT and Parathion at harvest. *Advances Chem.*, ser. 1, 1950, 112-116.
- Barr, H. E., Clark, P. J., and Jacks, H.:** Parathion spray residue on apples, beans and quinces. *New Zealand J. Sci., Technol. B 37.* 1956, 623-625. — *Bull. signal.*, Paris, 17. 1956, 2550.
- Barr, H. E., Clark, P. J., and Jacks, H.:** Selenium in apples: effect of applications of selocide to the tree and to the soil. *New Zealand J. Sci., Technol. B 37.* 1955, 119-125. — *Bull. signal.*, Paris, 17. 1956, 1268.
- Bartenstein, F.:** The Miller Bill. In: *Manufacturing Chemists' Association of the US Inter-industry chemicals in foods conference*, Chicago, 1952, p. 68-69.
- Beavens, E. A., Keller, G. J., and Rice, R. G.:** Do pesticides cause off-flavors in citrus products? *Food Technol.*, London, 8 (5, Suppl.). 1954, 36 (Abstr.).
- Bedford, C. L., and Robertson, W. F.:** Effect of spray materials on the quality of canned and frozen Montmorency cherries. *Food Technol.*, London, 7. 1953, 142-144.
- Beijers, J. A.:** Poisoning of our livestock with plant pesticides preparations against insect pests and other animals and herbicides. (Orig. holländisch.) *Tijdschr. Diergenkunde.* 81. 1956, 1-14.
- Beran, F.:** Bilden die chemischen Pflanzenschutzmittel eine Gefahr für die menschliche Gesundheit? *Förderungsdienst* 4. 1956, 129-134.
- Beran, F.:** Chemische Pflanzenschutzmittel und Volksgesundheit. L und E, Wien, 9 (4). 1956, 5-9.
- Berck, B., and Smallman, B. N.:** Loss of DDT residues in box cars carrying flour. *Cereal Chem.*, St. Paul, 28. 1951, 317-324. — *Chem. Zentralbl.* 123. 1952, 2570.
- Bernfus, E.:** Ergebnisse der Großversuche mit dem DDT-Stäubemittel „Geigy 33“ bei Mahlgetreide und bei Gerste für die Malzkaffee- und Biererzeugung. *Mitt. Vers.-anst. Gärungsgew.*, Wien, 1950, 83-89.
- Bernfus, E.:** Die Kornkäferbekämpfung in der Brauerei mit „Geigy 33“. *Mitt. Vers.-anst. Gärungsgew.*, Wien, 7./8. 1952, 1-8.
- Bernfus, E.:** Neuzeitliche Schädlingsbekämpfungsmethoden im Getreidespeicher und Lagerraum. *Mitt. Vers.-anst. Gärungsgew.*, Wien, 3-4. 1949, 33-41.
- Bernfus, E., Klaushofer, H., u. Schaller, A.:** Über die Verwendbarkeit von γ -Hexachlorcyclohexan zur Schädlingsbekämpfung in Getreide- und Mehllagern. *Mitt. Vers.-anst. Gärungsgew.*, Wien, 8. 1954, 7-9.
- Bettini, S.:** Chronische Giftigkeit und Nahrungsmittelverunreinigung durch DDT. (Orig. ital.) *Rend. Ist. super. Sanità*, Roma, 13. 1950, 443-453.
- Bettini, S.:** Chronische Toxizität von DDT und Gehalt von Nahrungsmitteln an DDT. (Orig. ital.) *Riv. Parassitol.*, Roma, 10. 1949, 265-270.

- Bettini, S.:** Untersuchungen über das Verhalten der Schädlingsbekämpfungsmittel und ihre Giftigkeit in der Ernährung von Menschen und Tieren. (Orig. ital.) Conf. int. pour l'Examen des Moyens de Lutte contre les Parasites des Plantes. Allocutions, Proc.-Verb., Rap., Commun. et Résolutions I. 1951, 125-134.
- Biddulph, C., Greenwood, D. A., Harris, L. E., Draper, C. I., Bateman, G. Q., Stoddart, G. E., Binns, W., Miner, M. L., Sorenson, C. J., and Liebermann, F. V.:** How harmful are the newer insecticides to domestic animals and human beings. *Farm, Home Sci., (Logan)* 15. 1954, 38-41.
- Birk, L. A., and Oughton, J. G.:** Parathion residues on swede turnips. *Sci. Agric., Ottawa*, 32. 1952, 52-56. — *Chem. Zentralbl.* 125. 1954, 3095.
- Bishopp, F. C.:** Food, health and insecticides. *Agric. Chem., Baltimore*, 6 (2). 1951, 38-40, 97-101.
- Bishopp, F. C.:** Insecticide problems in the United States of America. (Includes toxicity to man, animals, and beneficial insects, and insect resistance.) *Trans. int. Congr. Ent.* 9 (1). 1951 (1952), 1023-1029.
- Bishopp, F. C.:** Insecticide residue problems in grassland agriculture. *Int. Grassland Conf. Abstr. Pap.* 6 (I). 1952, 5. — *Proc. int. Grassland Congr.* 6. 1952, 1650-1656.
- Bishopp, F. C.:** Issues involved in pesticides legislation. *Agric. Chem., Baltimore*, 8 (2). 1953, 31-33, 137, 139.
- Bishopp, F. C.:** Report on January hearings on residue problems. *Proc. amer. Assoc. econ. Entomologists, North Centr. States Br.*, 5. 1950, 3.
- Biskind, J. M.:** Public health aspects of the new insecticides. *Amer. J. Digest. Dis.* 20. 1953, 331-341.
- Blackith, R. E.:** Stability of contact insecticides. III. Allethrin, DDT and BHC in ultra-violet light. *J. Sci. Food, Agric., London*, 3. 1952, 482-487.
- Blouch, R. M.:** Tracer studies in castor bean plants with 2,4-D-1-C¹⁴. 8. *Congr. Int. Bot. Rapp. Commun. Sect.* 11/12. 1954, 190.
- Bobb, M. L.:** Parathion residues on peach bark and foliage. *J. econ. Ent.* 47. 1954, 190-191.
- Bodenstein, G.:** Kontaktinsektizide — eine Hilfe oder eine Gefahr? *Müllerei* 6. 1953, Nr. 17. (*Wiss. Müllerei* 4. 25-32.)
- Bodenstein, G.:** Neues zur Frage der Beimischung von Insektiziden, insbesondere Lindan, zu lagerndem Getreide. *Anz. Schädl.kunde* 27. 1954, 124-125.
- Böning, K.:** Ist die menschliche Gesundheit durch die Anwendung chemischer Mittel im Pflanzenschutz bedroht? *Pflanzenschutz, München*, 5. 1953, 52-55.
- Böning, K.:** Zur Frage der Giftigkeit von Insektiziden für den Menschen. *Pflanzenschutz, München*, 6. 1954, 90-92.
- Bogdarina, A. A.:** DDT-Rückstände auf Früchten. (Orig. russ.) *Sad i Ogorod (Orchard and Garden)* 7. 1954, 74-75.
- Bondi, A., and Olomucki, E.:** Problems connected with fumigation of grain with ethylene dibromide. *Bull. Res. Council. Israel, Sect. D (Bot.)* 4. 1954, 107.
- Bondi, A., Olomucki, E., and Calderon, M.:** The use of grain treated with ethylene dibromide as poultry feed. (Orig. hebr.) *Hassadeh (hebr.)* 33. 1952, 54-55.
- Borgmann, W.:** Hygienische Gesichtspunkte bei der Anwendung von Systox. *Mitt. Biol. Bundesanst., Berlin-Dahlem*, H. 80. 1954, 64.
- Boswell, V. R.:** Effects of insecticides on flavor and quality of food products. *J. econ. Ent.* 48. 1955, 495-499. — *Canning Trade, Baltimore*, 77 (31). 1955, 8. — *Bull. signal., Paris*, 17. 1956, 1268.
- Boswell, V. R.:** Residues, soils, and plants. (Insecticides) *US Dept. Agric. Yearb. Agric.* 1952, 284-297.
- Bottini, E.:** Public analysis service for the triennium 1952-54. *Agricultural products.* (Orig. ital.) *Ann. Ist. Sperim. Chim. agr., Torino*, 18. 1952/54, 605-608.

- Bouchet, R. L.:** Le lindane ou isomère gamma pur de l'hexachlorocyclohexane comme moyen de protection des substances entreposées; son utilisation pour la fumigation des magasins et pour le traitement direct des grains par poudrage. *Compt. rend. Congr. int. Phytopharm.* 3 (2). 1952 (1954), 221-229.
- Bowery, T. G.:** Pesticide residue tolerances. Res. and Farming (North Carolina Exp. Stat.) *Progr. Rept.* 14 (3/4). 1956, 11.
- Boyes, W. W., Jeffery, C. W., and Ginsburg, L.:** Effect of dinitro-cresol spray on the storage quality of pears. *Farming South Afr.* 25. 1950, 173-176.
- Braid, P. E., and Dustan, G. G.:** Parathion residuals on immature peaches and the hazard in spraying and thinning operations. *J. econ. Ent.* 48. 1955, 44-46. — *Bull. analyt., Paris*, 16. 1955, 3181.
- Braid, P. E., Windish, J. P., and Ross, C. R.:** Parathion spray concentrations and residues in Quebec apple orchards. *A. M. A. Arch. ind. Health* 11. 1955, 408-412. — *Bull. signal., Paris*, 17. 1956, 268.
- Brandon, A. L.:** Report on copper in foods. *J. Assoc. off. agric. Chemists, Washington*, 35. 1952, 542-543.
- Brandt, W. H., and Althaus, R. W.:** Systemics and toxicology. (Chemicals as plant protectants.) *Plant Dis. Repr. Suppl.* 234. 1955, 132.
- Breen, G. E.:** The use of chemicals in growth and processing of foodstuffs, a new hazard of unknown dimensions. *Mother Earth* 5 (4). 1951, 35-40.
- Brieskorn, C. H.:** Über die Einflußnahme einiger neuzeitlicher Schädlings- und Unkrautbekämpfungsmittel auf unsere Lebensmittel. *Ztschr. Lebensm.-Untersuch. u. -Forsch.* 93. 1951, 292-298.
- Brimblecombe, A. R.:** Control of pineapple scab. (Includes flavour control.) *J. agric. Sci., Cambridge*, 12. 1955, 81-94.
- Bristow, A. A.:** What the experts say. Survey of opinion on use of DDT and other insecticides. *Bull. Garden Club Amer.* 42 (3). 1954, 51-54.
- Brittin, W. A., and Fairing, J. D.:** Insecticides in canned foods. *J. Assoc. off. agric. Chemists, Washington*, 33. 1950, 599-607.
- Bröker, W.:** Prüfung der Beständigkeit von Dichlor-diphenyltrichloräthan und Hexachlorcyclohexan mit Hilfe einer chemisch-analytischen Methode. *Anz. Schädl.kunde* 26. 1953, 38-39.
- Bromfield, L.:** Pertinent remarks on poisons in food. *Organic Farmer* 3. 1951, 17-19.
- Brown, W. B., Coppock, J. B. M., Edwards, G. H., Greer, E. N., Hay, J. G., and Heseltine, H. K.:** Fumigation of flour with methyl bromide. *Chem. and Ind. (Rev.)*, London, 1955, 324-325.
- Brown, W. B., and Heuser, S. G.:** Behaviour of fumigants during vacuum fumigation. III. Penetration of methyl bromide into bagged whalemeat meal. *J. Sci. Food, Agric.*, London, 7. 1956, 595-601.
- Bruckwilder, R. V.:** Poisoning by pesticides. *Tijdschr. Diergeneeskunde* 81. 1956, 626-627.
- Brückner, G.:** Der Einfluß von Kornkäferbekämpfungsmitteln (DDT und Hexa) auf die Getreide- und Mehlqualität. *Müllerei* 3. 1950, 189-190.
- Brückner, G., Flatow, R., und Rohrlisch, M.:** Der quantitative chemische Nachweis von DDT in Mahl- und Backprodukten und das Verhalten des DDT im Mahl- und Backprozeß. *Getreide und Mehl, Detmold*, 7. 1957, 73-77 (Mühle 94, 1957).
- Brunson, M. H., and Koblitsky, L.:** A study of DDT deposits on peach foliage and fruit treated for control of the oriental fruit moth (*Grapholitha molesta*). *US Bur. Ent., Plant Quar., Washington*, E-809. 1950, 6 p.
- Brunson, M. H., and Koblitsky, L.:** Parathion, DDT and EPN deposits on peach foliage and fruit. *J. econ. Ent.* 45. 1952, 953-957.
- Bryant, V. A.:** No poisonous residue with TEPP. *Hopper* 6 (5). 1949, 9.

- Burn, J. H.:** Insecticides and poisoning of crops. *Chem. and Ind. (Rev.)*, London, 1949, 1949, 601-604.
- Burt, P. E., and Wart, J.:** The persistence and fate of DDT on foliage. The influence of plant wax on the toxicity and persistence of deposits of DDT crystals. *Bull. ent. Res.* 46. 1955, 39-56.
- Busvine, J. R., and Nash, R.:** The potency and persistence of some new synthetic insecticides. *Bull. ent. Res.* 44. 1953, 371-376.
- Caffrey, D. J.:** Tobacco insecticides. Their hazards to operators, tobacco handlers, and consumers. *Proc. Tobacco Insect Conf.* 10. 1950, 2-3.
- Campbell, J. C., and Pepper, B. B.:** Some observations on effects of wettable DDT and emulsifiable DDT on potato quality and blight control. *Amer. Potato J.* 28. 1951, 638-640.
- Carman, G. E., Ewart, W. H., Barnes, M. M., and Gunther, F. A.:** Absorption of DDT and parathion by fruits. *Advances Chem. Ser.* 1. 1950, 128-136. — *Chem. Zentralbl.* 127. 1956, 10321.
- Carman, G. E., Gunther, F. A., Blinn, R. C., and Garmus, R. D.:** The physical fate of parathion applied to citrus. *J. econ. Ent.* 45. 1952, 767-777.
- Carman, G. E., and Swift, J. E.:** Use of pest control chemicals; public law No. 518 effective July 22, 1955, of concern of all growers, shippers using pesticide chemicals on farm products. *Calif. Agric., Berkeley*, 9 (9). 1955, 3-4.
- Carter, R. H.:** DDT residues on agricultural products. *Ind. engin. Chem.* 40. 1948, 716-717.
- Carter, R. H.:** Report on DDT in foods. *J. Assoc. off. agric. Chemists, Washington*, 31. 1948, 355-358.
- Casida, J. E.:** Isomeric substituted vinyl phosphates as systemic insecticides. (Includes residues.) *Science, Lancaster*, 122. 1955, 597-598.
- Casida, J. E.:** Metabolism of organo-phosphorus insecticides in relation to their antiesterase activity, stability and residual properties. *J. agric., Food Chem., Washington*, 4. 1956, 772-785.
- Casida, J. E., Gatterdam, P. E., Getzin jr., L. W., and Chapman, R. K.:** Residual properties of the systemic insecticide 0,0-dimethyl-1-carbomethoxy-1-propen-2-yl phosphate. *J. agric., Food Chem., Washington*, 4. 1956, 236-243.
- Casida, J. E., and Stahmann, M. A.:** Metabolism and mode of action of schradan. *J. agric., Food Chem., Washington*, 1. 1957, 883-888.
- Chapman, P. J.:** Facts about spray residues. *Agric. Chem., Baltimore*, 9(1). 1954, 37, 119-120. — *Chem. Zentralbl.* 125. 1954, 10 087.
- Chapman, P. J.:** Insect pests price of progress; but science continues its successful war to cut crop losses and also guarantee healthful foods. *Pural New-Yorker* 105. 1955, 317-318.
- Chase, C. E.:** A new approach to spray residue enforcement. *Proc. Washington State hortic. Assoc.* 47. 1951, 13.
- Chase, C. E.:** A progress report on the spray residue battle. *West. Fruit Grower, San Francisco*, 5 (2). 1951, 35-37.
- Chase, C. E.:** The spray residue situation today and forecast for the future. *Proc. Washington State hortic. Assoc.* 46. 1950, 197-200.
- Chatt, E. M., Colquhoun, J. M., and Hinton, C. L.:** US tolerances for pesticide chemicals on raw fruits and vegetables. *Brit. Food Mfg. ind. Res. Assoc. Techn. Circ.* 74. 1955, 10 p.
- Choudhri, R. S., and Bhatnagar, V. B.:** Effect of maleic hydrazide on the keeping quality of turnips (*Brassica rapa L.*). *Indian J. Hortic.* 12. 1955, 1-5.

- Ciferri, R.:** Die Grenzen der Toleranzen von insektiziden Rückständen nach US Food and Drug Administration. (Orig. ital.) Not. Mal. Piante nr. 29. 1955, 43-44.
- Ciferri, R.:** Persistence of parathion in soil: its effect on lettuce. (Orig. ital.) Not. Mal. Piante nr. 26. 1954, 15-18.
- Ciferri, R., and Bertossi, F.:** Presence of chlorinated hydrocarbon insecticides on olive oil from trees treated for the control of the olive fly. (Orig. ital.) Not. Mal. Piante nr. 12. 1950, 56-59.
- Claborn, H. V., Bowers, J. W., Wells, R. W., Radeleff, R. D., and Nickerson, W. J.:** Meat contamination from pesticides. Agric. Chem., Baltimore, 8(8). 1953, 37-39, 119, 121. — Chem. Zentralbl. 126. 1955, 476.
- Clark, P. J.:** Arsenic residues on apples. New Zealand J. Sci., Technol. B 36. 1954, 344-346.
- Clark, P. J., Barr, H. E., Camden-Cooke, A., and Jacks, H.:** Selenium content of apples. New Zealand J. Sci., Technol. B 34. 1953, 245-247.
- Clark, P. J., and Jacks, H.:** Arsenic and lead residues on apples. New Zealand J. Sci., Technol. B 35. 1954, 311-314.
- Clark, P. J., and Jacks, H.:** Arsenic residues on apples. New Zealand J. Sci., Technol. B 36. 1955, 344-346. — Bull. analyt., Paris, 16. 1955, 3181. — Chem. Zentralbl. 127. 1956, 3135.
- Clark, P. J., and Jacks, H.:** The Schradan content of fruits and vegetables. New Zealand J. Sci., Technol. B 38. 1956, 53-65. — Bull. signal., Paris, 18. 1957, 411.
- Clark, P. J., Richards, E. L., Taylor, G. G., and Jacks, H.:** Note on DDT residues on cabbage. New Zealand J. Sci., Technol. A 34. 1952, 226-227. — Chem. Zentralbl. 127. 1956, 2575.
- Clark, P. J., Richards, E. L., Taylor, G. G., and Jacks, H.:** DDT and arsenic residues on fruit. New Zealand J. Sci., Technol. A 34. 1952, 209-212. — J. econ. Ent. 45. 1952, 137-138. — Chem. Zentralbl. 127. 1956, 2575.
- Claypool, L. L., and Vines, H. M.:** Commodity tolerance studies of deciduous fruits to moist heat and fumigants (for control of *Dacus dorsalis*). Hilgardia, Berkeley, 24. 1956, 297-355.
- Clifford, P. A.:** Report on metals, other elements and residues in foods. J. Assoc. off. agric. Chemists, Washington, 36. 1953, 585-587.
- Cochran, J. H.:** The miller amendment and its effect on grower. (Residue tolerances of pesticides on food crops.) S. C. agric. Res. 3. 1956, 3.
- Cochran, J. H., and van Blaricom, L. O.:** Insecticides vs. flavor; NCA-Heinz-Clemson tests show that benzene hexachloride sprays produce offtaste peaches. Food Packer, New York, 31(4). 1950, 30-31, 59, 61-62, 64.
- Coetzee, W. H. K., Burger, I. J., and du T. Hugo, J. F.:** Foreign taste in tomato juice caused by parathion sprays on the plants. Farming South Afr. 28. 1953, 298. — Chem. Zentralbl. 125. 1954, 8654.
- Cohen, G.:** Residual poisons left on fruits and vegetables. (Orig. hebr.) Hassadeh (hebr.) 35. 1955, 905-907.
- Cohen, M.:** Taint problem. J. Sci. Food, Agric., London, 7. 1956, 73-77.
- Compton, C. C.:** Agricultural chemicals and flavor evaluation. Effect of fungicides and herbicides on fruit and vegetable flavor. Agric. Chem., Baltimore, 8(1). 1953, 30-31, 121.
- Compton, C. C.:** Problems of insecticides in foods. J. Milk, Food Technol., Albany (N. Y.), 17. 1954, 173-175, 178.
- Compton, C. C., and Benedict, S. H.:** Nemagon, 1, 2-dibromo-3-chloropropane, a soil fumigant. (Includes flavour evaluation.) Agric. Chem., Baltimore, 11(3). 1956, 46-47, 125-126.

- Conner, J. D.:** FDA hearings ends. (Spray residue tolerance on fruit and vegetables.) *Agric. Chem.*, Baltimore, 5 (10). 1950, 32-33.
- Conner, J. D.:** Spray residue hearings and the congressional investigation. *Proc. chem. Specialties Mfr. Assoc. Off.* 37. 1950, 72-75.
- Conner, J. D.:** Statutory limitation of insecticidal residues on food. *Agric. Chem.*, Baltimore, 4 (12). 1949, 21-24.
- Conner, J. D.:** Testimony at FDA hearings piles up more evidence that "pesticides are necessary". (Tolerance hearings on insecticide and fungicide residues on fruit and vegetables.) *Agric. Chem.*, Baltimore, 5 (4). 1950, 47, 49, 51, 83, 85-86.
- Conner, J. D.:** Toxicity hearings, report on FDA hearings at Washington investigating insecticide residues in foodstuffs. *Proc. chem. Specialties Mfr. Assoc. Off.* 36. 1950, 84-85, 116.
- Cook, J. S.:** Insect control under the "Miller Bill". *Rice J. (south. Farmer)*, New Orleans, 59 (8). 1956, 31-32, 34, 36-38.
- Cordonnier, R.:** Étude, du point de vue œnologique des fongicides organiques de synthèse. (Résidus.) *Progr. agric., vitic.*, Montpellier, 1955, 8-12.
- Cordonnier, R.:** Étude, du point de vue œnologique, des fongicides organiques de synthèse à base d'éthylène-bis-dithiocarbamate de zinc et de N-trichlorométhyl-thio-tétra-hydrophthalimide employés dans le traitement du mildiou de la vigne. *Compt. rend. Acad. Agric. France*, 40. 1954, 243-246.
- Covington, J. H.:** The status of pesticide legislation. *Nat. Cannery Assoc. Inform. Let.* 1472. 1954, 90-91.
- Cox, L. G.:** Pesticidal residues on natural foods. *Food Drug Cosmetic Law J.* 7. 1952, 96-112.
- Coyne, F. P.:** Insecticides in public health: repercussions on food production. *Chem. and Ind. (Rev.)*, London, 40. 1952, 965-968.
- Coyne, J. T.:** A discussion of the Miller Pesticide Residue Amendment. *Chem. Spec. Mfr. Assoc. Proc. Mid-Year Meetg.* 41. 1955, 124-126.
- Cutkomp, L. K.:** Neue Richtungen in der Insektizidforschung. (Orig. engl.) *Trans. amer. Assoc. Cereal Chemists* 13. 1955, 83-107. — *Chem. Zentralbl.* 128. 1957, 8048.
- Cutright, C. R.:** Do sprays affect fruit flavor? *Amer. Fruit Grower*, Cleveland (Ohio), 73 (3). 1953, 37, 41.
- Dahm, P. A.:** Effects of weathering and commercial dehydration upon residues of aldrin, chlordane, and toxaphene applied to alfalfa. *J. econ. Ent.* 45. 1952, 763-766.
- Dahm, P. A.:** Insect control and residues on alfalfa for dehydration. *Proc. amer. Assoc. econ. Entomologists*, North Centr. States Br., 6. 1951, 62-66.
- Dalgaard-Mikkelsen, S.:** Maladies et accidents chez le bétail causés par les insecticides et herbicides utilisées dans la pratique agricole. *Bull. Off. int. Epizooties*, Paris, 46. 1956, 232-243. — *Bull. signal.*, Paris, 18. 1957, 677.
- Daughters, G.:** Pesticide tolerances. *Nat. Confectioner's Assoc. US (Sanit. Ser.)* 3. 1956, 6-8.
- Davich, T. B., and Apple, J. W.:** Schradan content in field grown peas in relation to pea aphid control. *J. econ. Ent.* 48. 1955, 180-181. — *Bull. analyt.*, Paris, 18. 1955, 3938.
- David, W. A. L., and Aldridge, W. N.:** The insecticidal material in leaves of plants growing in soil treated with parathion. *Ann. appl. Biol.* 45. 1957, 332-346.
- Dawson, E. H., Gilpin, G. L., Kirkpatrick, M. E., and Weigel, C. A.:** Flavor and soil treatment; flavor of selected vegetables grown in soil treated with isomers of benzene hexachloride. *J. agric., Food Chem.*, Washington, 1. 1953, 399-403. — *Chem. Zentralbl.* 127. 1956, 1176.

- Day, J. W.:** Poison on the land. Insecticides and herbicides. Country Life, London, 113. 1953, 267.
- Decker, G. C.:** Agricultural applications of DDT, with special reference to the importance of residues. J. econ. Ent. 39. 1946, 557-562. (Ref.: Rev. appl. Ent. 36. 1948, 81-82.)
- Decker, G. C.:** The chemicals residue problem in foods. Calif. Fruit News, San Francisco, 126(3352). 1952, 4, 10-11.
- Decker, G. C.:** How the Miller Bill and Pure Food and Drug Laws affect the PCO. Pest Control, Painesville, 25 (9). 1957, 28-32, 46.
- Decker, G. C.:** Meeting the residue problem. (Chiefly insecticidal residues in food.) Canning Trade, Baltimore, 75 (10). 1952, 7-8, 18.
- Decker, G. C.:** The Miller Law. Agric. Chem., Baltimore, 11 (1). 1956, 30-32, 104.
- Decker, G. C.:** The Miller pesticide residue amendment. Trans. Illinois State hortic. Soc. 89. 1955, 72-78.
- Decker, G. C.:** Spray residue problems (food contamination). Agric. Chem., Baltimore, 7 (4). 1952, 67, 69, 71, 155, 159. — Chem. Zentralbl. 125. 1954, 7961.
- Decker, G. C.:** Spray residue tolerances. (Fruit and vegetables.) Trans. Illinois State hortic. Soc. 85. 1951, 321-328.
- Decker, G. C.:** Toxic hazards of pesticides to man. Nature, London, 172. 1953, 1125-1127.
- Decker, G. C., Weinman, C. J., and Bann, J. M.:** A preliminary report on the rate of insecticide residue loss from treated plants. J. econ. Ent. 43. 1950, 919-927.
- De Jong, P.:** The problem of copper contamination in tea. Plant. Chron., Coimbatore, 46. 1951, 619-623.
- Delindati, G.:** Kupfer und Vitamin C in behandelten Tomaten. (Orig. ital.) Ind. ital. Conserve 25. 1950, 187-190.
- DeLong, D. M., and Ludwig, P.:** Hazards involved when animals are exposed to organic insecticidal residues. J. econ. Ent. 47. 1954, 1056-1057. — Bull. analyt., Paris, 16. 1955, 3181.
- Del Rivero, J. M.:** Acción tóxica de los insecticidas y el problema de sus residuos. Agron. Bol. (España) 10 (22). 1950, 241-254.
- De Pietri-Tonelli, P., and March, R. B.:** Relation of the activation of Schradan in plant tissues to its toxicity to insects and mites. J. econ. Ent. 47. 1954, 902-908.
- Deshusses, J.:** Chemical impurities in foods. Mitt. Geb. Lebensm.unters., Hyg. 46. 1955, 464-474.
- Deshusses, J., et Deshusses, L.:** Insecticides et raticides devant l'hygiène publique. Mitt. Geb. Lebensm.unters., Hyg. 43. 1952, 155-195.
- Deszyck, E. J., Reitz, H. J., and Sites, J. W.:** Basic copper arsenate for grapefruit maturity sprays. Citrus Mag. 16 (7). 1954, 15-17.
- Deszyck, E. J., and Sites, J. W.:** The effect of lead arsenate sprays on quality and maturity of Ruby Red grapefruit. Proc. Florida State hortic. Soc. 67. 1954, 38-42.
- Detroux, L.:** La désinsectisation du sol et la transmission d'une saveur désagréable aux cultures de pommes de terre. Parasitica, Gembloux, 8. 1952, 40-43.
- Ditman, L. P., Kramer, A., and Saulsbury jr., A. O.:** Malathion for control of pea aphid. (Includes residues.) J. econ. Ent. 46. 1953, 645-648.
- Ditman, L. P., Stark, F. C., Cox, E. C., and Todd, H. S.:** Spritz- und Stäubemittel für Einmachgurken. (Orig. engl.) Canning Trade, Baltimore, 75. 1953, 7-8. — Chem. Zentralbl. 124. 1953, 7903.
- Ditman, L. P., Wiley, R. C., and Giang, P. A.:** Residues and flavors of asparagus treated with malathion. J. econ. Ent. 49. 1956, 422. — Bull. signal., Paris, 18. 1957, 1077.

- Dormal, S.:** Le problème des traces d'insecticides dans les fruits et les légumes. *Parasitica*, Gembloux, 10. 1954, 60-96; 11. 1955, 58-65. — *Bull. signal.*, Paris, 17. 1956, 492.
- Dormal, S.:** Pour éviter la propagation d'erreurs. *Ann. Pharmac. Belg.* 12. 1957, 449-454.
- Dormal, S.:** Resten van chemische Ziektebestrijding-middelen in voedingsproducten. *Conserva* 1. 1953, 388-390.
- Dormal, S.:** Les risques d'intoxication chronique inhérents à l'usage des produits phytopharmaceutiques en agriculture. *J. Pharmac. Belg.* 9-10. 1956, 426-468.
- Dowdy, A. C.:** Legal insecticide residues on fruits. 1956. Michigan State Univ. agric. Ext. Folder F-223. 1956, 6 p.
- Dowdy, A. C., and Slesman, J. P.:** Systemic poisons on vegetable crops. *J. econ. Ent.* 45. 1952, 640-643.
- Drews, E.:** Der Einfluß der Kornbehandlung mit Kontaktinsektiziden auf die Backfähigkeit von Roggen- und Weizenmehlen. *Mühle* 88: 1951, 457-459. — *Müllerei* 4 (29). 1951, 23-25.
- Dubois, K. P.:** Food contamination from the new insecticides. *J. Amer. Dietet. Assoc.* 26. 1950, 325-328.
- Dürr, H. J. R.:** Parathion spray residue on apples and canned peaches. *Farming South Afr.* 29. 1954, 231-232. — *Chem. Zentralbl.* 126. 1955, 3468.
- Dufrénoy, J.:** Les insecticides de contact; exposé de la question. *Rev. Path. Gén., comp.* 55. 1955, 1154-1155.
- Durham, W. F.:** Dangers of pesticides in sanitation programs. *Milling and Feed (Canada)* 37 (2). 1956, 21.
- Durocher, J., et Lagneau, C.:** Sur les inconvénients que peuvent présenter en conserverie les résidus de certains produits anticryptogamiques avant été utilisés pour le traitement des fruits. *Compt. rend. Acad. Agric. France* 38. 1952, 731-735.
- Eastwood, T.:** Effect of herbicides upon potatoes used for chipping. *Guide Post* 30 (3). 1952, 3-4.
- Eastwood, T.:** The effects of herbicides upon potatoes used for chipping. *Amer. Potato J.* 29. 1952, 160-164.
- Edson, E. F.:** Agricultural pesticides. *Brit. med. J.*, London, 1. 1955, 841-844.
- Eichholtz, F.:** Die toxische Gesamtsituation auf dem Gebiet der menschlichen Ernährung. Springer-Verlag, Berlin/Göttingen/Heidelberg 1957. 178 S.
- Ellison, J. H., Aldrich, R. J., and MacLinn, W. A.:** Effect of Karmex-W on the flavor of canned and frozen asparagus. *Proc. Northeast Weed Control Conf.* 9. 1955, 137-139.
- Ellison, J. H., Aldrich, R. J., Rahn, E. M., and MacLinn, W. A.:** Further results with monuron (Karmex-W) and its effect on flavor of processed asparagus. *Proc. Weed Control Conf.* 1957, 83-87.
- El Nahal, A. K. M.:** Fumigation of agricultural products. VI. Penetration and sorption of hydrogen cyanide in wheat fumigated at reduced pressures. VII. Penetration and sorption of ethylene oxide in wheat fumigated at reduced pressures. VIII. Penetration and sorption of methyl bromide in wheat fumigated at reduced pressures. *J. Sci. Food, Agric.*, London, 4. 1953, 517-522; 5. 1954, 205-208, 369-373.
- El Rafe, M. S.:** Fumigation of agricultural products. X. Sorption of carbon disulphide by wheat and flour. *J. Sci. Food, Agric.*, London, 5. 1954, 536-541.
- Erickson, L. C.:** 2,4-D residue on lemons. *Citrus Leaves* 35 (4). 1955, 13.
- Erwin, W. R., Miskus, R. P., and Hoskins, W. M.:** Harvest residues of insecticides in vegetable and field crops resulting from foliage and soil application. *Hilgardia*, Berkeley, 26. 1956, 86-106.

- Esty, J. R.:** Residual effect of new insecticides on cannery fruits and vegetables. Proc. Washington State hortic. Assoc. 48. 1952, 19-24. — Chem. Zentralbl. 124. 1953, 5591.
- Evans, J. A.:** Manzate on tomatoes and potatoes. (Manganese ethylenebisdithiocarbamate.) Food Packer, New York, 33 (6). 1952, 40, 52, 54.
- Ewart, I. L., Jeppson, L. R., and Eaks, I. L.:** Effect of chlorobenzilate sprays on the flavor and quality of lemons and oranges. Citrus Leaves 35 (11). 1955, 10-11.
- Ewart, W. H.:** Chlorobenzilate-sprays. Calif. Citrogr. 41. 1955, 66. — Chem. Zentralbl. 128. 1957, 3648.
- Ewart, W. H.:** The food flavor problem in pesticide research. Food Technol., London, 8(5.Suppl.). 1954, 36 (Abstr.).
- Eyer, J. R., Faulkner, L. R., and McCarty, R. T.:** The effect of toxaphene and DDT on geese in cotton fields. New Mexico agric. Exp. Stat. Press Bull. 1078. 1953, 6 p.
- Faber, W., und Kahl, E.:** Ergebnisse mehrjähriger Untersuchungen zur Frage der Geschmacksbeeinflussung von Insektiziden bei Kartoffeln. Pflanzenschutzberichte, Wien, 14. 1955, 161-180.
- Fabre, R.:** L'emploi des toxiques en agriculture et la sauvegarde de la santé publique. Phytoma, Paris, 5(40). 1952, 31-32.
- Fabre, R.:** Pesticides et hygiène publique. Phytoma, Paris, 8(72). 1955, 7-13.
- Fabre, R., et Truhaut, R.:** Étude toxicologique du sélénium. Rev. Path. Gén., Physiol. Clin. 56. 1956, 323-339.
- Fabre, R., et Truhaut, R.:** Pharmacologie et toxicologie des insecticides — leurs avantages et leurs inconvénients du point de vue de la pathologie comparée. Rev. Path. Gén., Comp. 55. 1955, 1166-1185.
- Fahey, J. E.:** Calculation of tolerances of mixed chemical residues on fruits and vegetables. Proc. ent. Soc. Amer. North Centr. States Br., 10. 1955, 37. — Agric. Chem., Baltimore, 10 (8). 1955, 37, 85.
- Fahey, J. E.:** The rate of weathering of phosphate insecticides. Proc. amer. Assoc. econ. Ent., North Centr. States Br., 6. 1952, 103-106.
- Fahey, J. E., Bann, J. M., and Weinman, C. J.:** Residues. Proc. amer. Assoc. econ. Ent., North Centr. States Br., 7. 1952, 78-80.
- Fahey, J. E., Brendley, T. A., and Rusk, H. W.:** Studies of DDT residues on corn. Agric. Chem., Baltimore, 9(3). 1954, 50-51, 53, 135-137.
- Fahey, J. E., Brendley, T. A., and Rusk, H. W.:** Three years' study of DDT residues on corn plants treated for European corn borer control. Iowa State Coll. J. Sci. 28. 1953, 209-260. — Bull. analyt., Paris, 15. 1954, 2577.
- Fahey, J. E., Hamilton, D. W., and Rings, R. W.:** Longevity of parathion and related insecticides in spray residues. J. econ. Ent. 45. 1952, 700-703.
- Fahey, J. E., Rusk, H. W., and Cox, H. C.:** Residues on plants treated with DDT granules and emulsions for European corn borer control. J. econ. Ent. 49. 1956, 846-849.
- Fedorova, I. N.:** Investigation of external poisoning of wheat with octamethyl (Schradan) used for protection of plantings from *Eurygaster integriceps*. (Orig. russ.) Dokl. Vsesoiuzn. Akad. Sel'skhoz. Nauk im. V. I. Lenina (Proc. Lenin Acad. agric. Sci.) 19(5). 1954, 44-47.
- Feuersenger, M.:** Lebensmittelhygienische Fragen der Kornkäferbekämpfung mit Phosphorwasserstoff. Dtsch. Lebensm.-Rundschau, Nürnberg, 51. 1955, 293-296.
- Feuersenger, M.:** Mit Diphenyl konservierte und künstlich gefärbte Citrusfrüchte. Dtsch. Lebensm.-Rundschau, Nürnberg, 51. 1955, 268-273.

- Fiehrer, A.:** Les accidents sanguins et capillaires dûs au DDT. *Rev. Path. Gén., Comp.* 55. 1955, 1204-1213.
- Fischer, W.:** Spritzrückstände von DDT, HCH und E 605 an Obst. *Nachr.bl. dtsh. Pfl.schutzd., Braunschweig*, 6. 1954, 166-169.
- Fisher, E. H.:** Lack of insecticide tolerances Ups demand for PCOs dairies. *Pest Control, Painesville*, 25 (5). 1957, 44-48.
- Fitzhugh, O. G.:** The pharmacologic problems of crop-protecting chemicals. *Antibiotics and Chemother.* 6. 1956, 88-89.
- Fleming, W. E.:** Effect on plants of DDT applied to the soil for the destruction of Japanese beetle larvae. *US Bur. Ent., Plant Quar., Washington*, E-737. 1947, 1-20.
- Fletcher, P.:** Chemicals in food products. *J. amer. Acad. appl. Nutrit. Mon. Newslet.* 4 (6). 1951, 3-6; 4 (7). 1951, 4-6, 7-9.
- Florentin, D.:** Contaminations métalliques et métalloïdiques des aliments et des boissons. Leurs conséquences. *Ind. aliment. agric., Paris*, 73. 1956, 413-423. — *Bull. signal., Paris*, 18. 1957, 157.
- Floyd, E. H., and Newsom, L. D.:** Protection of stored corn with lindane-impregnated sawdust. *J. econ. Ent.* 49. 1956, 753-757. — *Bull. signal., Paris*, 18. 1957, 1762.
- Fogleman, R. W.:** Residue studies in the research program. *J. Agric., Food Chem., Washington*, 4. 1956, 410-413.
- Fontana, P., und Zampighi, G.:** Wirkung gegen Peronospora, Beständigkeit und Wanderung von Zinkäthylenbisdithiocarbamat bei Weintrauben. (Orig. ital.) *Ann. Chim. appl., Roma*, 44. 1954, 988-996.
- Ford, O. W., and Burkholder, C. L.:** Purdue studies residues on apples following the use of mercury fungicides. *Hoosier hortic., Lafayette*, 32. 1950, 115-116.
- Foresti, B.:** Alcune osservazioni sulla determinazione e sul significato dei residui di paratione negli olii. *Not. Mal. Piante* nr. 37/38. 1956, 63-69.
- Fontaine, F. C., and Dahm, P. A.:** Parathion-treated roughage safe. *Hoard's Dairyman* 96. 1951, 442.
- Frankenfeld, J. C.:** Value of fumigants in contrast to residual insecticides in grain. *Proc. amer. Assoc. econ. Ent., North Centr. States Br.*, 8. 1953, 65-66.
- Franklin, N. R., and Thompson, N. R.:** Effects of maleic hydrazide on stored potatoes. *Amer. Potato J.* 30. 1953, 289-295.
- Fransen, J. J., and Kerksen, M. C.:** Inspection of residues from mist spraying. (Orig. holl.) *Meded. Landbouwoorl.dienst, 's-Gravenhage*, 12. 1955, 89-95.
- Fransen, J. J., und Kerksen, M. C.:** Wirksamkeit von Parathion-Rückständen auf den Blättern verschiedener Kohllarten. (Orig. holl.) *Meded. Landbouwhoogesch., Opzoek.stat. Gent*, 18. 1953, 422-438.
- Franssen, C. J. H., van Genderen, H., und Wit, S. L.:** Parathion-Rückstände in der Erbsenzucht. (Orig. holl.) *Meded. Landbouwoorl.dienst, 's-Gravenhage*, 11. 1954, 351-356.
- Franssen, C. J. H., Wit, S. L., en van Genderen, H.:** DDT residu's bij de erwenteelt. *Tijdschr. Plantenziekten* 61 (5). 1955, 145-153. — *Bull. signal., Paris*, 17. 1956, 997.
- Frazer, A. C.:** Einige Komplikationen in der Bewertung von Toxizitätstesten zur Prüfung von Nahrungsmittel-Zusätzen. *Voeiding* 16. 1955, 686-693. — *Chem. Zentralbl.* 127. 1956, 12421.
- Frey, W.:** Über die Prüfung der geschmacksbeeinträchtigenden Wirkung von Hexapreparaten an Obst und Gemüse. *Nachr.bl. dtsh. Pfl.schutzd., Braunschweig*, 2. 1950, 81-84.

- Fuchs, W. H.:** Läßt sich Pflanzenschutz mit chemischen Mitteln uneingeschränkt verantworten? *Kartoffelbau* 8 (7). 1957, 117-118.
- Gabel, W.:** Chemische Fremdstoffe in Lebensmitteln. *Dtsch. Lebensm.-Rundschau*, Nürnberg, 51. 1955, 235-237.
- Galley, R. A. E.:** Problems arising from the use of chemicals in food; the toxicity of residual agricultural chemicals. *Chem. and Ind. (Rev.)*, London, 16. 1952, 342-344.
- Gannon, N., and Decker, G. C.:** Organic insecticides as sprays for armyworm control. (Includes residues.) *J. econ. Ent.* 48. 1955, 260-262.
- Gar, K. A., Melnikov, N. N., Mandelbaum, Ya. A., Chernetsova, V. I., and Shvetsova-Shilovskaya, K. D.:** Use of labelled atoms for studying the stability of insecticide dusts containing organic thiophosphates. *Dokl. Acad. Nauk SSSR*. 94. 1954, 729-732.
- Card, L. N., Pray, B. O., and Rudd, N. G.:** Herbicides residues: residues in crops receiving pre-emergence treatment with isopropyl N-(3-chlorophenyl) carbamate. *J. Agric., Food Chem.*, Washington, 2. 1954, 1174-1176.
- Card, L. N., and Reynolds, J. L.:** Residues in crops treated with isopropyl N-(3-chlorophenyl) carbamate and isopropyl N-phenylcarbamate. — *J. Agric., Food Chem.*, Washington, 5. 1957, 39-41.
- Garman, P.:** Quality in apples as affected by pesticide and fertilizer sprays. *Proc. Connecticut pomol. Soc.* 61. 1951 (1952), 50-54. — *Amer. Fruit Grower*, Cleveland (Ohio), 75(2). 1955, 41-42. — *Chem. Zentralbl.* 127. 1956, 9838.
- Geard, I. D.:** Berry fruit spraying trials. *Tasmanian J. Agric.* 26. 1955, 243-253.
- Gilcreas, F. W.:** Public health aspects of weed control. *Proc. south. Weed Conf.* 9. 1956, 250-253.
- Gilpin, G. L., Dawson, E. H., Geissenhainer, E. L., and Reynolds, H.:** Flavour of peanuts and peanut products as affected by certain insecticides used in growing peanut crops. *Food Technol.*, London, 7 (3). 1953, 132-135.
- Gilpin, G. L., Dawson, E. H., and Siegler, H. H.:** Effect of benzene hexachloride sprays on the flavor of fresh, frozen and canned peaches. *J. agric., Food Chem.*, Washington, 2. 1954, 781-783. — *Chem. Zentralbl.* 127. 1956, 5391.
- Gilpin, G. L., Dawson, E. H., and Siegler, E. H.:** Flavor of peanut butter as affected by aldrin, chlordane, dieldrin, heptachlor and toxaphene used as insecticides in growing peanuts. *J. agric., Food Chem.*, Washington, 2. 1954, 778.
- Gilpin, G. L., and Geissenhainer, E. L.:** Flavor of sweet potatoes as affected by certain agricultural chemicals used as insecticides. *Food Technol.*, London, 7. 1953, 137-138.
- Gilpin, G. L., Parks, A. B., and Reynolds, H.:** Flavor of selected vegetables grown in pesticide-contaminated soils. *J. agric., Food Chem.*, Washington, 5. 1957, 44-48.
- Gilpin, G. L., Redstrom, R. A., Reynolds, H., and Poos, F. W.:** Flavor of peanut butter as affected by aldrin, chlordane, dieldrin, heptachlor, and toxaphene used as insecticides in growing peanuts. *J. agric., Food Chem.*, Washington, 2. 1954, 778-780. — *Chem. Zentralbl.* 127. 1956, 5391.
- Ginsburg, J. M.:** Preliminary studies on the effect of sunlight on decomposition and detoxification of DDT. *Proc. New Jersey Mosquito Extermin. Assoc.* 39. 1952, 162-167.
- Ginsburg, J. M.:** Rate of decomposition of the newer insecticides when exposed outdoors to direct sunlight. *Proc. New Jersey Mosquito Extermin. Assoc.* 40. 1953, 163-168.

- Ginsburg, J. M., and Filmer, R. S.:** DDT recovered on corn plants from different treatments against corn earworm. [*Heliothis armiger*] *J. econ. Ent.* 44. 1951, 620. — *Chem. Zentralbl.* 125. 1955, 10802.
- Ginsburg, J. M., Filmer, R. S., and Reed, J. P.:** Longevity of parathion, DDT and dichlorodiphenyl dichloroethane residues on field and vegetables crops. *J. econ. Ent.* 43. 1950, 90-94.
- Gochnauer, T. A.:** The use of chemicals in honey bee disease control and possible contamination in honey. *Proc. amer. Assoc. econ. Entomologists, North Centr. States Br.*, 8. 1953, 45.
- Godes, G. I., and Romysh, L. F.:** Some data on the toxic action of NIUIF-2 (Granosan). (Contamination of grain through treatment of seeds.) (Orig. russ.) *Voprosy Pitaniia* 15. 1956, 83-85.
- Götz, B.:** Untersuchungen über Lesegut, Gärung und Wein nach Anwendung verschiedener Insektizide. *Weinberg u. Keller* 3. 1956, 12-19.
- Goldman, M. C.:** Poison by the plateful; an unmasked look at chemicals in foods. *Organic. Gard., Farming* 1 (3). 1954, 47, 50-53.
- Gooding, E. G. B., Tucker, C. G., and Harries, J. M.:** Flavour of dehydrated potatoes made from material treated with tetrachloronitrobenzene. *J. Sci. Food, Agric., London*, 7. 1956, 411-416.
- Gorringe, B. S.:** Determination of fumigants. XXI. Preliminary experiments on the sorption of mercury vapour by wheat. *J. Sci. Food, Agric., London*, 1. 1950, 114-118.
- Gorringe, B. S.:** Fumigation of agricultural products. XI. Sorption of mercury vapor by wheat. *J. Sci. Food, Agric., London*, 6. 1955, 791-799. — *Bull. signal., Paris*, 17. 1956, 1528.
- Gough, H. C.:** A review of the literatur on soil insecticides. *Impl. Inst. Ent., London*, 1945. 161 p.
- Gould, W. A., Slesman, J. P., Rings, R. W., Lynn, M., Krantz, jr. F., and Brown, H. D.:** Flavor evaluations of canned fruits and vegetables treated with newer organic insecticides. *Food Technol., London*, 5. 1951, 129-133.
- Graefe, G.:** Bedeutung und Gefahren des chemischen Pflanzenschutzes für die Ernährung. *Gordian, Hamburg*, 56 (1343). 1956, 23-25.
- Granett, P., Connola, D. P., and Lembach, J. V.:** Laboratory tests of allethrin for stability, residual action and toxicity. *J. econ. Ent.* 44. 1951, 552-557. — *Chem. Zentralbl.* 125. 1954, 7270.
- Granett, P., and Shew, W. D.:** Laboratory tests of diazinon — butoxy polypropylene glycol residues. *J. econ. Ent.* 48. 1955, 487-488. — *Bull. signal., Paris*, 17. 1956, 996.
- Greenwood, D. E.:** Insecticide residue tolerances to be set. *Virginia agric. Coll. Ext. Veg. Growers News* 4 (10). 1950, 2, 4.
- Greenwood, D. E.:** Systemic insecticides in vegetable production. *Veg. Growers Assoc. Amer. Ann. Rept.* 1955, 48-52.
- Greenwood, J. L., and Tice, J. M.:** Palatability tests on potatoes grown in soil treated with the insecticides benzene hexachloride, chlordane, and chlorinated camphene. *J. agric. Res.* 78. 1949, 477-482.
- Griffin, E. L.:** Recently developed pesticides and regulatory laws affecting their use. *J. Assoc. off. agric. Chemists, Washington*, 38. 1955, 35-44.
- Griffiths jr., J. T., and Fisher, F. E.:** Residues on citrus trees in Florida. *J. econ. Ent.* 42. 1949, 829-833.
- Griffiths jr., J. T., Reitz, H. J., and Olsen, R. W.:** Off-flavor produced in Florida orange juice after application of new organic insecticides. (Benzene hexachloride.) *Agric. Chem., Baltimore*, 5 (9). 1950, 41-43, 99.

- Griffiths, J. T., and Thompson, W. L.:** Reduced spray programs for citrus for canning plants in Florida. *J. econ. Ent.* 46. 1953, 930-936.
- Griffiths, J. T., Williams, J. W., Stearns, C. R., and Thompson, W. L.:** Health status of parathion when used on citrus in 1951. *Proc. Florida State hortic. Soc.* 64 (1951). 1952, 79-82.
- Gruch, W.:** Zur Frage der Giftwirkung gewisser Honige. *Ztschr. Bienenforsch.* 4. 1957, 47-57.
- Gunther, F. A., Barkley, J. H., and Ewart, W. H.:** Harvest residues of apparent diel-drin in peel and juice of navel oranges. *J. econ. Ent.* 47. 1954, 1033-1035. — *Bull. analyt., Paris*, 16. 1955, 3181.
- Gunther, F. A., Barnes, M. M., and Carman, G. E.:** Removal of DDT and parathion residues from apples, pears, lemons and oranges. *Advances Chem. Ser. I.* 1950, 137-142.
- Gunther, F. A., and Blinn, R. C.:** Persisting insecticide residues in plant materials. *Ann. Rev. Ent.* 1. 1956, 167-180.
- Gunther, F. A., Blinn, R. C., Jeppson, L. R., Barkley, J. H., Frisone, G. J., and Garmus, R. D.:** Field persistence of the acaricide 4,4'-dichloro-alpha-(trichloromethyl)-benzhydrol (FW-298) on and in mature lemons and oranges. *J. agric., Food Chem., Washington*, 5. 1957, 595-598.
- Gunther, F. A., and Jeppson, L. R.:** Residues of p-chlorophenyl-p-chlorobenzenesulfonate (compound K-6451) on and in lemons and oranges. *J. econ. Ent.* 47. 1954, 1027-1032. — *Bull. analyt., Paris*, 16. 1955, 3181.
- Gunther, F. A., Jeppson, L. R., and Wacker, G. B.:** Persistence of chlorobenzilate residues in mature lemon fruits. *J. econ. Ent.* 48. 1955, 372-374. — *Bull. signal., Paris*, 17. 1956, 997.
- Guyer, R. B., and Kramer, A.:** Objective measurements of quality of raw and processed snap beans as affected by maleic hydrazide and para-chlorophenoxyacetic acid. *Proc. amer. Soc. hortic. Sci.* 58. 1951, 263-273.
- Gyrisko, G. G., Evans, W. G., Burrage, R. H., and Briant, A. M.:** Further studies on the effect of soil treatments with insecticides on residues and fruit quality of strawberries. *J. econ. Ent.* 48. 1955/56, 700-703. — *Bull. signal., Paris*, 17. 1956, 2122.
- Haag, H. B., and Kampmeier, C.:** A review of toxicologic considerations pertinent to the safe use of 2,2-bis-(p-chlorophenyl)-1,1-dichloroethane (TDE, DDD, Rothane). *Agric. Chem., Baltimore*, 10 (9). 1955, 85, 123-126.
- Hagedorn, D. J.:** Field and laboratory tests of seed protectants for canning peas. *Phytopathology* 47. 1957, 70-72.
- Hagen, U.:** Über die Giftigkeit von quecksilberhaltigen Saatgutbeizmitteln und Fungiziden im Pflanzenschutz. *Gesunde Pflanzen* 6. 1954, 277-281.
- Haight jr., G. P.:** Solubility of methyl bromide in water and in some fruit juices. *Ind., engin. Chem.* 43. 1951, 1827-1828.
- Haines, R. G.:** Studies of the lindane content of tissues of plants grown in soil or nutrient solution. *Diss. Abstr.* 15. 1955, 2376.
- Hall, D. G.:** Our food supply, wildlife conservation and agricultural chemicals. (Chiefly insecticides.) *Trans. north amer. Wildlife Conf., Washington*, 17. 1952, 26-33.
- Hall, D. G.:** Pesticides in our food supply? *Better Farming Methods* 25. 1953, 40, 42-43.
- Haller, H. L.:** Hazards in connection with pesticide use. *Agric. Chem., Baltimore*, 11(4). 1956, 49-50, 128. — *Chem. Zentralbl.* 128. 1957, 3939.

- Haller, H. L.:** What the new pesticides mean to us. (Talk before the Engineering, Epidemiology, Food & Nutrition, and Industrial Hygiene Sections of the American Public Health Association at Buffalo, N. Y., October 15, 1954.) Washington 1954. 10 p.
- Haller, M. H., and Carter, R. H.:** DDT spray residues on apples and the effect of removal treatments. *Proc. amer. Soc. hortic. Sci.* 56. 1950, 116-121.
- Hammer, O. H., and Fletcher, F. W.:** Present status of methyl bromide with respect to uses and residues under the Miller Amendment. *Down to Earth, Midland (Michigan)*, 12 (1). 1956, 8-9.
- Hani, J.:** Bienenhonig und Schädlingsbekämpfung bei den Obstbäumen. *Schweiz. Bienenztg., Aarau*, 74. 1951, 316-317.
- Hard, M. M., and Ross, E.:** Effect of malathion on flavor of certain fruits and vegetables. *J. agric., Food Chem., Washington*, 2. 1954, 20-22.
- Harding, L. P., Lutz, J. M., Radspinner, W. A., and Sunday, M. B.:** Influence of chemical treatments and polyethylene bags on keeping quality of Florida grapefruit. *US agric. Mktg. Serv. AMS-8*. 1955, 14 p.
- Hardon, H. J., and Brunink, H.:** Spray residues in vegetables and fruit. (Orig. holl.) *Voeding* 17. 1956, 548-556.
- Harms, J.:** Changes in FDA Tolerances order. *Farm Chem.* 118 (4). 1955, 51.
- Harms, J.:** FDA issues pesticide tolerances, regulations. For residues on fruit and vegetables. *Farm Chem.* 117 (11). 1954, 26-27, 29, 31, 33, 35.
- Harris, Th. H.:** The opinion on residue. *J. agric., Food Chem., Washington*, 4. 1956, 413-415.
- Harris, V. C.:** Residual aspects of weed control chemicals studied. *Mississippi Farm Res.* 17 (2). 1954, 2, 5.
- Harrison, T. H.:** Organic pesticides, hazards to human health. *Health* 2. 1952, 19-21.
- Hartmann, H. T.:** Induction of abscission of olive fruits by maleic hydrazide. (Includes residues.) *Bot. Gaz., Chicago*, 117. 1955, 24-28.
- Hartzell, A.:** The status of the spray residue situation in the United States. *Trans. IX. int. Congr. Ent.* 1. 1952, 1047-1051.
- Hartzfeld, E. G.:** Terraclor ... a new soil fungicide. *Agric. Chem., Baltimore*, 12(7). 1957, 31-33.
- Harvey, E. M.:** Absorption of biphenyl from biphenyl-treated cartons by citrus fruits and its effect on decay, 1953-1954. *US agric. Mktg. Serv. AMS 3*. 1955, 16 p.
- Harvey, M. H., Greenwood, M. L., and Turner, N.:** The effectiveness of certain antidotes in counteracting the off-flavor in potatoes grown on soil treated with benzene hexachloride. *Amer. Potato J.* 27. 1950, 182-188.
- Hashizume, B., Miyahara, Y., und Suenaga, H.:** Der tägliche Betrag der aktiven Giftstoffe von Folidol (E 605), die durch Taupfropfen auf Reispflanzen nach einer Behandlung niedergeschlagen werden. (Orig. jap.). *Kyushu agric. Res.* 11. 1953, 49-50.
- Haworth, F., and Lamb, J.:** Crop protection by copper fungicides.
I. The effect of weather on copper residues by **Haworth, F.**
II. Copper residues in relation to quality by **Lamb, J.**
Tea Quart. (J. Tea Res. Inst., Ceylon) 21 (4). 1950, 28-35.
- Hayes, W. J.:** Agricultural chemicals and public health. *Publ. Health Repts., Washington*, (reprint No. 3245) 69 (10). 1954, 893-898.
- Hayes, W. J.:** DDT in Nahrungsmitteln. *Umschau* 55. 1955, 311.
- Hayes, W. J.:** Hazards in the use of insecticides. *Proc. chem. Specialties Mfrs. Assoc. thirty-ninth Mid-Year Meeting* 1953.
- Hayes, W. J.:** Present status of our knowledge of DDT intoxication. *Amer. J. public Health* 45. 1955. 478-485.

- Hayes jr., W. J., and Simmons, S. W.:** Benefits and hazards of insecticides to public health. *Advances Chem. Ser. 1.* 1950. 56-60.
- Hayward, L. A. W.:** Contamination caused to sacked decorticated groundnuts by direct spraying with aqueous suspensions of BHC and DDT. *J. Sci. Food, Agric., London, 2.* 1951, 524-527. — *Chem. Zentralbl.* 125. 1954, 10801.
- Hazleton, L. W.:** Pesticide toxicity. Review of current knowledge of toxicity of cholinesterase inhibitor insecticides. *J. agric., Food Chem., Washington, 4.* 1955, 312-319.
- Hazleton, L. W.:** Pharmacology and foods, drugs and cosmetics. Federal regulation of chemicals with special attention to insecticides. *Drug, Cosmetic Ind.* 71. 1952, 324-325, 418-420.
- Heal, R. E.:** Product damage hazards from insecticides. *Chem. Spec. Mfr. Assoc. Proc. Mid-Year Meetg.* 40. 1954, 93-96.
- Heiligenthal, A.:** Pflanzenschutzmittel und Lebensmittel. (Auszug) *Dtsch. Lebensmittel-Rundschau, Nürnberg,* 51. 1955, 209.
- Hening, J. C., Davis, A. C., and Robinson, W. B.:** Flavor and color evaluation of canning crops grown on soil treated with insecticides. *Food Technol., London,* 8. 1954, 227-229. — *Bull. analyt., Paris,* 15. 1954, 4180.
- Henrard, P.:** Quelques notes concernant l'hexachlorocyclohexane. Properties and residual effects. *Ind. chim., belge, Bruxelles,* 39. 1952, 139-140.
- Hensill, G. S., and Gardner, L. R.:** Some poisonous residue factors in use of two new organic insecticides. (Benzene hexachloride; tetraethyl pyrophosphate.) *Advances Chem. Ser. 1.* 1950, 102-107.
- Herschler, A.:** Kupfer und Arsen in Weinbergsböden und Reben. *Wein u. Rebe, Mainz,* 21. 1939, 1-17.
- Hess, G.:** Toxische Wirkung von Schädlingsbekämpfungsmitteln. *Pflanzenschutzzeitung, Berlin,* 1952, 89-92.
- Hills, C. H., Calesnick, E. J., Dryden, E. C., and Caspar, M. S.:** Ferbam residues on canned Montmorency cherries. *Proc. amer. Soc. hortic. Sci.* 62. 1953, 261-266. — *Bull. analyt., Paris,* 15. 1954, 4180.
- Hinreiner, E.:** Effect of applied pesticides on flavor changes in canned foods. *Nat. Canners Assoc. Inform. Let.* 1526. 1955, 109-111.
- Hinreiner, E., and Simone, M.:** Effects of acaricides on flavor of almonds and canned fruits. *Hilgardia, Berkeley,* 26. 1956, 35-45.
- Hinreiner, E., and Simone, M.:** Effects of soil insecticides on flavor of vegetable crops. *Hilgardia, Berkeley,* 26. 1956, 76-85.
- Hiroyasu, T., and Masuda, S.:** Parathion spray residues on grapes. (Orig. jap.). *J. hortic. Assoc. Japan* 24. 1955, 165-167.
- Hitchner, L. S.:** Legislative control of pesticidal chemicals. *Food Technol., London,* 9 (5, Suppl.). 1955, 20.
- Hitchner, L. S.:** Pesticides essential to food production. (Problems of residues.) *Food Technol., London,* 5 (5, Suppl.). 1951, 25.
- Hitchner, L. S.:** Pesticide tolerance regulations issued. *Agric. Chem., Baltimore,* 9 (11). 1954, 61.
- Hoffmann, C. H.:** Highlights of the Food and Drug Administration tolerance hearings. *Proc. ent. Soc. Washington,* 53. 1951, 53-55.
- Hoffmann, C. H.:** The miller amendment and wath it means to entomology research. *Bull. ent. Soc. Amer.* 1 (2). 1955, 4-6. — *Proc. Assoc. south. agric. Workers* 52. 1955, 93.
- Hofflund, S.:** Poisoning hazards. (Orig. schwed.). *Mjölpropagandan* 31. 1954, 149-150.
- Hofsten, C. G. v.:** Don't blame everything on chemicals. (Chiefly insecticides.) (Orig. schwed.). *Landtmannen, Uppsala,* 36. 1952, 767-769.

- Holmes, E.:** Taint? What are the facts about BHC (benzene hexachloride)? Does it taint potatoes, cereals and fruit? *Farmers' Weekly*, London, 34(14). 1951, 57.
- Holmes, E. L., and Salathe, L. J.:** State and municipal health department requirements for use of common residual insecticide sprays. *Advances Chem. Ser. 1.* 1950, 25-27.
- Holmes, E. L., and Salathe, L. J.:** Use of residual spray materials in a typical food industry. (Pest control in bakeries.) *Advances Chem. Ser. 1.* 1950, 28-30. — *Chem. Zentralbl.* 125. 1954, 9373.
- Hoos, J. W., Leonard, S. J., and Luh, B. S.:** Effect of 2,4,5-trichlorophenoxyacetic acid spray on organic acids, pectin and quality of canned apricots. *Food Res.* 21. 1956, 571-582. — *Bull. signal., Paris*, 18. 1957, 1769.
- Hopkins, L., Abu Yaman, I. K., and Caruth, L. A.:** Flavor evaluation and residue analysis of malathion-treated lettuce. *J. econ. Ent.* 48. 1955, 151-152. — *Bull. analyt., Paris*, 16. 1955, 3938. — *Chem. Zentralbl.* 127. 1956, 236.
- Hopkins, L., and Gyrisco, G. G.:** Tests on pea aphid (*Macrosiphum pisi*) control in alfalfa and residues from various formulations at harvest. *J. econ. Ent.* 45. 1952, 821-825.
- Hopkins, L., Gyrisco, G. G., and Norton, L. B.:** Effects of sun, wind and rain on DDT dust residues on forage crops. *J. econ. Ent.* 45. 1952, 629-633.
- Hopkins, L., Gyrisco, G. G., and Norton, L. B.:** Trials with lime in controlling DDT residues on forage at harvest. *J. econ. Ent.* 45. 1952, 893-894.
- Hopkins, L., Norton, L. B., and Gyrisco, G. G.:** Persistence of insecticide residues on forage crops. *J. econ. Ent.* 45. 1952, 213-218. — *Chem. Zentralbl.* 124. 1953, 7167.
- Horigan, F. D., and Cozzi, F. H.:** The persistence of insecticidal residues on various surfaces; a literature survey. *US QM Res., Developm. Lab. Techn. Libr. Bibliogr. Ser.* 23. 1952, 23 p.
- Horn, A. v.:** Über die Wirkung von Pflanzenschutzmitteln auf Geflügel und Wild. Versuche an Hühnerküken. *Nachr. bl. dtsh. Pfl.schutzd., Braunschweig*, 9. 1957, 138-143.
- Hornstein, I., Reynolds, H., and Gilpin, C. L.:** Benzene hexachloride content and flavor of plants grown in rotation with cotton dusted with this insecticide. *J. agric., Food Chem., Washington*, 2. 1954, 776-778. — *Chem. Zentralbl.* 127. 1956, 5390.
- Hornstein, I., Sullivan, W. N., Tsao, C. H., and Yeomans, A. H.:** The persistence of lindane-chlorinated terphenyl residues on outdoor foliage. *J. econ. Ent.* 47. 1954, 332-335.
- Hoskins, W. M.:** Deposit and residue of recent insecticides resulting from various control practices in California. *J. econ. Ent.* 43. 1949, 966-973.
- Hoskins, W. M.:** How pest control programs affect residues in foods. *Agric. Chem., Baltimore*, 4(10). 1949, 22-27, 77-78.
- Hüter, L.:** Moderne Entwesungsmethoden und ihre Bedeutung für die Lebensmittelhygiene, unter besonderer Berücksichtigung von Methylbromid. 1. u. 2. Teil. *Anz. Schädl.kunde* 24. 1951, 1-4, 19-23.
- Hutchinson, M. T.:** Control of the cranberry fruitworm on blueberries. *J. econ. Ent.* 47. 1954. 518-520.
- Hyman, J., & Comp.:** Chlordane bibliography. Denver 1949. (rev.) 29 p.
- Ishii, K., and Kawamura, T.:** Weathering-process of dithane (Z-78) on the leaf after spraying. (Orig. jap.) *Ann. phytopath. Soc. Japan* 19. 1955, 155-157.

- Ishikura, H. und Ozaki, K.:** Geruchs- und Geschmacksbeeinflussung durch BHC-Suspensionen verschiedener Reinheitsgrade (Gemüse). (Orig. jap., engl. Zusammenfassung.) *Botyu-Kagaku* (Sci. Insect Control) 17. 1952, 75-82.
- Iwata, I., und Sakurai, Y.:** Wirkung der Begasung auf die Bestandteile des Getreides. (Orig. jap.). *Nahrung und Ernährung* 9. 1956, 140-142. — *Chem. Abstr.* 51. 1957, 1482.
- Jameson, H. R., and Peacock, F. C.:** Taint in potatoes grown on land treated with technical γ -benzene hexachloride or pure γ -benzene hexachloride. *J. Sci. Food, Agric., London*, 4. 1953, 102-104. — *Chem. Zentralbl.* 125. 1954, 868.
- Jameson, H. R., and Tanner, C. C.:** Taint in potatoes grown on land treated with crude benzene hexachloride against wireworms. *J. Sci. Food, Agric., London*, 2. 1951, 171-175.
- Jaworski, E. G.:** Residue studies with two new herbicides. In: *Symposium on applications of radioactivity in the food and food processing industries*. (Boston 1955), p. B 7. (Abstr. of Papers), Boston, Tracerlab.
- Jeppson, L. R.:** Entomological aspects of systemic insecticides. *J. agric., Food Chem., Washington*, 1. 1953, 830-832.
- Johnston, M. R.:** Lindane residue changes during fermentation and processing of pickles. *Food Technol., London*, 11 (4, Suppl.), 1957, 18.
- Johnston, M. R.:** Lindane residue in cucumber fermentation. *Food Technol., London*, 10 (5, Suppl.), 1956, 18.
- Jones, G. D. G., and Thomas, W. D. E.:** Contamination of nectar with the systemic insecticide Schradan. *Nature, London*, 171. 1953, 263.
- Jones, G. D. G., and Thomas, W. D. E.:** Experiments on the possible contamination of honey with Schradan. *Ann. appl. Biol.* 40. 1953, 546-555.
- Kadkol, S. B., Murthy, H. B. N., Pingale, S. V., and Swaminathan, M.:** Effect of methyl bromide fumigation on the biological value of proteins in rice and groundnut. *Bull. Centr. Food Techn. Res. Inst., Mysore*, 3. 1953, 19-20.
- Kampmeier, C., and Haag, H. B.:** Toxicological considerations in use of dithiocarbamates. *Agric. Chem., Baltimore*, 9 (4). 1954, 49-50, 133.
- Kasting, R., and Harcourt, D. G.:** Parathion residues of cauliflower heads after spraying. *Sci. Agric., Ottawa*, 32. 1952, 299-303. — *Chem. Zentralbl.* 126. 1955, 9174.
- Kay, K.:** Health aspects of the new organic insecticides. *Agric. Inst. Rev. Ottawa*, 6. 1951, 25, 26, 29, 31.
- Kay, K.:** Health problems of the new organic insecticides. (Toxicity to humans.) *Canad. J. Publ. Health* 41. 1950, 374-380.
- Kay, K.:** New approaches to health evaluation of insecticides. *Canad. J. Publ. Health* 43. 1952, 516-522.
- Kay, K.:** New approaches to the health hazard evaluation of pesticides. *AMA Arch. Ind. Hyg., Occup. Med.* 8. 1953, 70-75.
- Kay, K.:** Pesticides and public health. *Canad. J. Publ. Health* 47. 1956, 206-213.
- Kay, K.:** Recent investigations of the hazard of the new organic pesticides. (Chiefly insecticides.) *Canad. Nutr. Notes* 9. 1953, 57-59.
- Kedrowa, Je. M.:** Experimentelle Untersuchungen über die zulässigen Mengen von DDT in Nahrungsmitteln. (Orig. russ.) *Fragen Ernährung*. 12 (3). 1953, 55-60. — *Chem. Zentralbl.* 125. 1954, 10520.
- Keegel, E. L., and Loos, C. A.:** Studies in blister blight control. IX-X. *Tea Quart. (J. Tea Res. Inst., Ceylon)* 23. 1952, 2-11.
- IX.** The effect of spray residues on the quality of manufactured tea, by **Keegel, E. L.**
- X.** Evaluation of some copper containing fungicidal dusts in the control of blister disease of tea, by **Loos, C. A.**

- Keller, H.:** Die Einwirkung der α -, β - und γ -Isomeren des Hexachlorcyclohexans auf esterspaltende Fermente. Hoppe-Seyler's Ztschr. physiol. Chem. 295. 1953, 15-28. — Chem. Zentralbl. 126. 1955, 6049.
- Keller, H.:** Die Wirkung von DDT auf esterspaltende Fermente. Arch. exp. Path., Pharmakol., Leipzig, 218. 1953, 121. — Bull. analyt., Paris, 15. 1954, 43.
- Kelsheimer, E. G.:** Pesticide residues on vegetables. Florida, agric. Exp. Stat. Ann. Rept. 1956, 265-266.
- Kemp, J. D.:** The effects of three formulations of benzene hexachloride on the flavor of pork. J. Anim. Sci. 9. 1950, 643-644 (Abstr.).
- Kesterson, J. W., Stearns jr., C. R., and Hendrickson, R.:** Studies on citrus by-products prepared from fruit sprayed with parathion. Citrus Mag. 13 (6). 1951, 36-37.
- Kinney, J. K.:** How the Miller Bill applies. West. Canner, Packer, San Francisco, 48(8). 1956, 25-26, 38.
- Kipiani, R. I., und Gegenava, G. V.:** Untersuchungen über das Eindringen des Insektizids Thiophos in die Pflanze und der Einfluß äußerer Faktoren auf seine Beständigkeit mit Hilfe der Methode markierter Atome. (Orig. russ.) Akad. Nauk Gruzinskoi SSR Soobshcheniia 16. 1955, 557-564.
- Kirk, J. K.:** After fifty years. Macaroni J. 38 (4). 1956, 15, 28.
- Kirk, V. M.:** A study of the disposition of DDT when used as an insecticide for potatoes. Cornell Univ. agric. Exp. Stat., Ithaca (New York), Mem. 312. 1952, 48 p.
- Kirkpatrick, M. E., Linton, G. S., Mountjoy, B. M., and Albright, L. C.:** Flavor tests on potatoes grown in soil where lindane was applied to cucumbers. Amer. Potato J. 32. 1955, 259-264.
- Kirkpatrick, M. E., Linton, G. S., Mountjoy, B. M., and Albright, L. C.:** Pesticides and flavor. Flavor of Sebago potatoes grown in soil treated with chlordan, heptachlor, dieldrin, aldrin or endrin. J. agric., Food Chem., Washington, 3. 1955, 409-412. — Bull. analyt., Paris, 16. 1955, 3938.
- Kirkpatrick, M. E., Mountjoy, B. N., Albright, L. C., Poos, F. W., and Weigel, C. A.:** Flavor and odor of cooked potatoes as affected by use of lindane and benzene hexachloride as insecticides. Amer. Potato J. 28. 1951, 792-799.
- Klaushofer, H.:** Der DDT-Gehalt von Zwischen-, End- und Abfallprodukten der Brauerei bei Verwendung von mit DDT bestäubter Gerste. Mitt. Vers.anst. Gärungsgew., Wien, 6. 1952, 91-97.
- Klimmer, O. R.:** Experimentelle Untersuchungen über die Toxikologie insektizider chlorierter Kohlenwasserstoffe. Arch. exp. Path., Pharmakol., Leipzig, 227. 1955, 183-195.
- Klimmer, O. R.:** Das Problem der Verwendung chemischer Schädlingsbekämpfungsmittel. Anz. Schädl.kunde 29. 1956, 7-9.
- Klimmer, O. R.:** Über die Toxikologie der chemischen Schädlingsbekämpfungsmittel. Gesunde Pflanzen 6. 1954, 129-132.
- Klimmer, O. R.:** Über die Toxikologie der modernen Schädlingsbekämpfungsmittel. Prakt. Chem. 5. 1954, 84-85.
- Klimmer, O. R.:** Zur Frage der gesundheitlichen Schädigung durch Insektizide in Nahrungsmitteln. Öffentl. Gesundh.dienst 17. 1955, 135-137.
- Klimmer, O. R.:** Zur Toxikologie der Schädlingsbekämpfungsmittel. Angew. Chem. 69. 1957, 572.
- Klimmer, O. R., und Pfaff, W.:** Vergleichende Untersuchungen über die Toxizität organischer Thiophosphorsäureester. Arzneim.-Forsch. 5. 1955, 626-630. — Bull. signal., Paris, 17. 1956, 1529.
- Klostermeyer, E. C., Landis, B. J., Schoop, R., and Butler, L. I.:** Effect of systemic insecticides on green peach aphid populations on potatoes. (Includes residues.) J. econ. Ent. 49. 1956, 164-166.

- Klussendorf, R. C.:** Pasture hazards. (Poisonous plants and toxic spray residues.) *Northamer. Veterinarian* 37. 1956, 459-460.
- Knight, G. F.:** Effects of pesticides on man. *Mod. Nutrit.* 7 (4). 1954, 8 (Abstr.).
- Knight, G. F.:** Poisonous effects of insect sprays in the home and school. *Mod. Nutrit.* 9 (6). 1956, 29-30.
- Knight, G. F.:** What are pesticides doing to human beings? *Mod. Nutrit.* 5 (4). 1952, 4-7; 5 (9). 1952, 11-16; 5 (11). 1952, 5-8.
- Knipling, E. F.:** The greater hazard — insects or insecticides. *J. econ. Ent.* 46. 1953, 1-7. — *US Bur. Ent., Plant Quar., Washington*, 1952. 16 p.
- Knipling, E. F.:** New developments concerning residues in dairy, meat and other food products. *Proc. amer. Assoc. econ. Entomologists, North Centr. States Br.*, 5. 1950, 4-5.
- Knoppien, P.:** Geschmacksuntersuchungen nach der Anwendung von Insektiziden auf Basis von Hexachlorcyclohexan. (Pflaumen und Äpfel.) (Orig. holl.) *Meded. Dir. Tuinbouw, Wageningen*, 13. 1950, 771-773.
- Kobel, E.:** Vorsicht beim Gebrauch von Pflanzenschutzmitteln. *Schweiz. Ztschr. Obst-, Weinbau* 60. 1951, 302-309.
- Kocwa, E.:** DDT als Stimulus des Wachstums und der Fermentation in Hefen. (Orig. poln.) *Acta Microbiol. Polon.* 2. 1953, 222-225.
- Koike, H., and Tomizawa, C.:** Effect of emulsifiers on deposit and durability of parathion sprayed on leaf surface of rice plant. (Orig. jap., engl. Zusammenfassung.) *Oyo-kontyu (Nippon Soc. appl. Ent.)*, Tokyo, 11. 1955, 18-20.
- Krausz, N. G. P.:** Know legal responsibilities when spraying crops. *Hoard's Dairyman* 101. 1956, 474-475.
- Krister, C. J.:** Methoxychlor. *Agric. Chem., Baltimore*, 6 (7). 1951, 39-41, 93. — *Chem. Zentralbl.* 124. 1953, 1074.
- Krister, C. J.:** Residues of dithiocarbamate fungicides on food crops. *Agric. Chem., Baltimore*, 7 (9). 1952, 45-48.
- Krylova, M. I.:** Residual amounts of arsenic in plant food products with reference to the use of arsenic-containing insecticides in agriculture. (Orig. russ.) *Voprosy Pitaniia* 15 (6). 1956, 39-42. — *Chem. Zentralbl.* 128. 1957, 7514.
- Laakso, J. W., and Johnson, L. H.:** Toxaphene residues on alfalfa. *Montana agric. Exp. Stat. Techn. Bull.* 461. 1949, 5-15.
- Lamb, F. C., and White, D. G.:** Off flavors resulting from field application of insecticides. *Calif. Olive Ind. News* 8 (2). 1953, 3.
- Lange, W. H., and Carlson, E. C.:** Residual soil insecticides for the control of wireworms affecting vegetable crops. *Hilgardia, Berkeley*, 26. 1956, 60-76.
- Langston, R.:** Activities and residues of sulphur-35-labelled bis(ethyl xanthic) disulphide (Herbisan). *J. agric. Food Chem., Washington*, 3. 1955, 849-851.
- Lankes, J. J.:** The fatal suck. Residues from systemic insecticides. *Organic Farmer* 4 (8). 1953, 20-21, 38.
- Larkin, D., Page, M., Bartlett, J. C., and Chapman, R. A.:** The lead, zinc and copper content of foods. *Food Res.* 19. 1954, 211-218.
- La Rotonda, C.:** Die Wirkung der bei der antiparasitischen Behandlung entstehenden Rückstände auf die landwirtschaftlichen Nahrungsmittel. (Orig. ital.) *Conserva, Derivati Agrumari* 1 (4). 1952, 16-28. — *Chim. e Ind., Milano*, 35. 1953, 11-13.
- Larrick, G. P.:** FDA interested in allaying public fears. (Pesticide residues on foods.) *J. agric., Food Chem., Washington*, 1. 1953, 877-878 (Abstr.).
- Laug, R. P., Kunze, F. M., and Prickett, C. S.:** Occurrence of DDT in human fat and milk. *A. M. A. Arch. ind. Hyg., occupat. Med.* 3. 1951, 245-246. — *Chem. Zentralbl.* 123. 1952, 6093.
- Lear, B., Mai, W. F., Harrison, M. B., and Cunningham, H. S.:** Yields and off-flavour of potatoes and carrots grown on plots receiving annual soil treatments. *Phytopathology* 44. 1954, 496.

- Leasure, J. K.:** Some residual effects of herbicide materials. Proc. south. Weed Conf. 8. 1955, 322-325.
- Leemann-Geymüller, H.:** Über die Beeinflussung von Geruch und Geschmack von Nahrungs- und Genußmitteln durch Verwendung systemischer Insektizide. Mitt. Geb. Lebensm.unters., Hyg. 45. 1954, 412-425. — Bull. analyt., Paris, 16. 1955, 2556. — Chem. Zentralbl. 127. 1956, 4833.
- Lehman, A. J.:** Chemicals in foods. A report to the Association of Food and Drug Officials on current developments. II. Pesticides. III. Subacute and chronic toxicity. V. Pathology. Quart. Bull. Assoc. Food, Drug Offic. US 15. 1951, 82-89, 122; 16. 1952, 3-9, 47-60, 126-132.
- Lehman, A. J.:** Conservatism in estimating the hazards of pesticidal residues. Quart. Bull. Assoc. Food, Drug Offic. US 18. 1954, 87-90.
- Lehman, A. J.:** The minute residue problem. (Pesticides.) Quart. Bull. Assoc. Food, Drug Offic. US 20. 1956, 95-99.
- Lehman, A. J.:** Pharmakologische Betrachtungen über Insektizide. Quart. Bull. Assoc. Food, Drug Offic. US 13. 1949, 65-70.
- Lehman, A. J., Patterson, W. I., Davidow, B., Hagan, E. C., Woodard, G., Laug, E. P., Frawley, J. P., Fitzhugh, O. G., Bourke, A. R., Draize, J. H., Velson, A. A., and Vos, B. J.:** Procedures for the appraisal of the toxicity of chemicals in foods, drugs and cosmetics. J. Food Drug Cosmetic Law 10. 1955, 679-748.
- Leib, E.:** Bienenhonig und Pflanzenschutzmittel. Keine gesundheitliche Schädigung durch Gehalt an Pflanzenschutzmitteln. Dtsch. Drog.ztg., München, 13. 1958, 52.
- Leib, E.:** Lebensmittelgesetz und Pflanzenschutz. Gesunde Pflanzen 8. 1956, 211-214.
- Leib, E., und Danner, H.:** Pflanzenschutz und öffentliche Gesundheit. Ztschr. Pfl.krankh. 62. 1955, 436-440.
- Lemmon, A. B.:** How to stay out of trouble with pesticides. Calif. Olive Ind. News 11 (3). 1956, 3-4. — Calif. Fruit News, San Francisco, 134. 1956, 10.
- Lemmon, A. B.:** Miller Bill with respect to California Pesticide Laws. Proc. Calif. Weed Conf. 8. 1956, 80-81.
- Lemmon, A. B.:** Parathion residues. Bull. Dept. Agric. Calif. 39. 1950, 302.
- Lemmon, A. B.:** Spray residue enforcement in California. (Fruit and vegetables.) Calif. Fruit News, San Francisco, 134. 1956, 3-4.
- Lemmon, A. B.:** Spray residue tolerances (on fruit and vegetables). West. Grower, Shipper 27 (6). 1956, 15-17.
- Lemmon, A. B.:** Tolerances for pesticide chemicals. Blue Anchor 32(2). 1955, 24-27.
- Lendle, L.:** Umstrittener Wert toxikologischer Gutachten über die Gesundheitsgefährdung durch chemische Nahrungsmittelzusätze? Med. Sachverständige 52. 1956, 102-104.
- Leon, N. C.:** Toxicidad residual comparada de algunos insecticidas del grupo de los hidrocarburos clorados. Chile Dir. Gen. Agr. Tecn. 9. 1949, 67-76.
- Leva, M.:** Comparisons and conclusions — the Miller Bill and the MCA (Manufacturing Chemists Association) proposal. Food Drug Cosmetic Law J. 7. 1952, 144-146.
- Levinson, B. D.:** Review of the residue tolerance hearings. Proc. amer. Assoc. econ. Entomologists, North Centr. States Br., 6. 1951, 4.
- Levinson, B. D.:** What about residue hearing? Food, Drug and Cosmetic officials are now considering evidence. Agric. Leaders' Digest 32 (3). 1951, 21-23.
- L'Hoste, J., Aguilar, J. D., et Gerard, J. L.:** Considérations sur l'emploi de l'heptachlore utilisé en traitement du sol. Compt. rend. Acad. Agric. France 42. 1956, 784-788.

- L'Hoste, J., und Ravault, L.:** Über eine mögliche Geschmacksveränderung von Kartoffeln von mit Insektiziden behandelten Böden. (Orig. franz.) *Engrais*, Lille, 67. 1953, 10-12. — *Chem. Zentralbl.* 124. 1953, 6962.
- Lieben, J.:** DDT defended. Hazards and safeguards. *Connecticut Arborist* 8. 1954, 3-6.
- Lienk, S. E., Abeling, E. J., Chapman, P. J., Cuthright, C. R., Hamilton, D. W., and Hammer, O. H.:** Taste evaluation of apples treated with the acaricide Ovex. *Agric. Chem.*, Baltimore, 11 (12). 1956, 46-48.
- Linsler, H., und Beck, W.:** Zur Frage der Beeinflussung des Geschmacks von Speisekartoffeln durch moderne Kartoffelkäfer-Bekämpfungsmittel. *Pflanzenschutzberichte*, Wien, 19. 1957, Jubiläumsheft, S. 63-73.
- Linsley, E. G.:** Evaluation of certain acaricides and insecticides for effectiveness, residues, and influence on crop flavor. *Hilgardia*, Berkeley, 26. 1956, 1-6.
- Linsley, E. G., and Hinreiner, E.:** Evaluation of pesticides for entomological effectiveness and influence on crop flavor. *Food Technol.*, London, 8 (5. Suppl.). 1954, 36.
- Linton, F. B.:** The spray residue problem. *Organic Farmer* 2 (3). 1950, 12-15.
- Lorch, M.:** Biologische Schäden auf acker- und pflanzenbaulichem Gebiet, ihre Entstehung und Beseitigung. *Bayer. landw. Jahrb.* 33. 1956, 3-16.
- Louis, R.:** Ist das E 605 tatsächlich so giftig? *Obstbau* 70. 1951, 10.
- Ludwig, R. A., and Thorn, G. D.:** Studies of the breakdown of disodium ethylene bisdithiocarbamate (Nabam). *Plant Dis. Repr.* 37. 1953, 127-129.
- Lüdicke, M.:** Über die Aufnahme radioaktiver Kontaktinsektizide bei Pflanzen und Tieren. *Nachr.bl. dtsh. Pfl.schutzd.*, Braunschweig, 6. 1954, 122-124. — *Angew. Chem.* 66. 1954, 109-110.
- Lynn, G. E.:** Residue tolerances for Dow agricultural chemicals. *Down to Earth*, Midland (Michigan), 12 (4). 1957, 9-11.
- Lynn, G. E.:** The status of pesticides under the Miller amendment to the Federal Food, Drug and Cosmetic Act. *Down to Earth*, Midland (Michigan), 11 (3). 1955, 8-9.
- McBride jr., J. J.:** Chemical studies on new fungicides and insecticides for citrus. (Systox residues in grapefruit juice and lemon juice. Persistence of DN residues on citrus leaves. Malathion residues in citrus fruit.) *Florida agric. Exp. Stat. Ann. Rept.* 1956, 175.
- MacGregor Hard, M., and Ross, E.:** Pesticides and flavor. Effect of malathion on flavor of certain fruits and vegetables. *J. agric., Food Chem.*, Washington, 2 (1). 1954, 20-22. — *Bull. analyt.*, Paris, 15. 1954, 4180.
- Macintire, W. H.:** Résumé of fluoride research at the university of Tennessee Agricultural Experiment Station, 1920—1954. *J. Assoc. off. agric. Chemists*, Washington, 39. 1955, 913-931.
- MacKay, I. A.:** Recent advances in insecticides. *J. R. sanit. Inst.*, London, 72. 1952, 187-194. — *Chem. Zentralbl.* 124. 1953, 1547.
- McKinnon, M.:** The Miller Pesticide Chemicals Amendment. *Agric. Chem.*, Baltimore, 11 (8). 1956, 44-45.
- McLeod, G. F.:** Modern grape protection and chemical hazards. *Proc. amer. Soc. Enol.* 3. 1952, 53-58.
- MacLinn, W. A.:** Taste panel studies on fungicides. (Effects on flavor of food.) *Agric. Chem.*, Baltimore, 8 (3). 1953, 50-52, 145.
- MacLinn, W. A., Reed, J. P., and Campbell, J. C.:** Flavor of potatoes as influenced by organic insecticides. *Amer. Potato J.* 27. 1950, 207-213.

- McWorter, C. G., and Holstun, J. T.:** Progress report on CIPC and diuron for pre-emergence weed control in cotton. (Includes residues.) Proc. 10th south. Weed Conf. 1957, 31-38.
- Madsen, H. F., and Borden, A. D.:** Field tests of acaricides for control of mites on pears and apples. *Hilgardia*, Berkeley, 26. 1956, 7-18.
- Magner, J. M.:** Uses and precautions pertaining to the systemic insecticides — operational and residual precautions. Proc. amer. Assoc. econ. Entomologists, North Centr. States Br., 8. 1953, 53-57.
- Maltha, P.:** Comportement du lindane au cours de la mouture du froment traité par ce produit. Congr. int. Ind. Agr. Relac. Comun. Presentadas 10 (3). 1954, 2207-2212.
- Manalo, G. D., Hutson, R., and Benne, E. J.:** DDT residues on fruits and vegetables. Michigan agric. Exp. Stat. Quart. Bull. 28. 1946, 272-280. — Rev. appl. Ent., Ser. A, 36. 1948, 134-135. — Ztschr. Pfl.krankh. 55. 1948, 256.
- Manalo, G. D., Hutson, R., Miller, E. J., and Benne, E. J.:** Removal of DDT spray residues from apples. Michigan agric. Exp. Stat. Quart. Bull. 29. 1946, 15-22. — Ztschr. Pfl.krankh. 55. 1948, 317.
- Marquardt, P.:** Besteht nach Lindan-Anwendung zur Bekämpfung von Getreideschädlingen eine Vergiftungsgefahr für den Brotkonsumenten? Mühle 89. 1952, 700-701.
- Marsden, D. H.:** The fruit grower and the Miller Bill. Proc. Connecticut pomol. Soc. 65. 1955, 21-27.
- Marsden, D. H.:** How much pesticide? (Application guide to avoid excessive residues.) East. States Co-op. 32 (4). 1956, 14-15.
- Marsh, R. S., Taylor, C. F., Foster, W. D., und Amick, G. M.:** Bodenbehandlung mit BHC bewirkt schlechten Geschmack von konservierten Pfirsichen. (Orig. engl.) Amer. Fruit Grower, Cleveland (Ohio), 72. 1952, 17. — Chem. Zentralbl. 124. 1953, 4755.
- Marsh, R. W., Martin, J. T., and Crang, A.:** The control of Botrytis rot (grey mould) [Botrytis cinerea] of strawberries, and the effects of fungicide spray residues on the processed fruit. J. hort. Sci., London, 30. 1955, 225-233.
- Martin, J. T.:** Distribution of copper fungicide deposits on plant surfaces. Nature, London, 172. 1953, 313-314.
- Martin, J. T.:** Problems arising from the use of chemicals in food: agricultural spray residues. Chem. and Ind. (Rev.), London, 16. 1952, 345-350.
- Martin, J. T., et al.:** Spray application problems.
- I. The distribution of copper and lime sulphur deposits by **Martin, J. T.**
 - II. DDT and copper residues on soft fruits by **Martin, J. T., Batt, R. F., and Jackson, P.**
 - III. A sedimentation method for the determination of the effective particle size distribution of dispersible powders by **Thomas, W. D. E., and Sims, A. J.**
 - IV. Preliminary field experiments on the control of apple scab by small volume sprays by **Kearns, H. G. H., Marsh, R. W., and Morgan, N. G.**
 - V. The automatic low-pressure spraying of small bush fruit by **Kearns, H. G. H., and Morgan, N. G.**
 - VI. A laboratory technique using Botrytis fabae on broad bean for the biological evaluation of fungicidal spray deposits by **Morgan, N. G.**
- Ann. Rept. agric., hort. Res. Stat., Long Ashton (Bristol), 1952, 71-102.
- Martin, R. G.:** How much poison are we eating? Harper's Mag. 210 (1259). 1955, 63-67.

- Martin, W. H.:** Quality food products with no health hazard. Spray residues. *New Jersey Agric.* 36 (6). 1954, 2-3.
- Martins, E. G.:** Aspects of toxicity of modern insecticides. (To man and animals.) (Orig. portug.) *Minas Gerais Dept. Prod. Bol. Agric.* 5(5/6). 1956, 25-29.
- Mattern, P. J., and Livingston, J. E.:** The effect of three leaf and stem rust chemotherapeutants on the baking behavior of wheat. *Cereal Chem., St. Paul*, 32. 1955, 208-211.
- Mauricio, A., und Schenker, P.:** Untersuchungen über die Ausscheidung bienengiftiger Pflanzenschutzmittel im Blütennektar. *Mitt. schweiz. ent. Ges.* 30. 1957, 140-150.
- Mayer, K.:** Einstäubemittel zur Kornkäferbekämpfung im Lagergetreide. *Nachr. bl. dtsh. Pfl.schutzd., Berlin, N. F.* 5. 1951, 163-170.
- Mayfield, P.:** Results of spray tolerance hearings. *Delaware State Board Agric. Bull.* 40 (5). 1951, 117-123.
- Medler, J. T.:** Meadow spittle bug control by pre-emergence treatment. (Includes residues.) *J. econ. Ent.* 48. 1955, 593-595.
- Melis, R.:** Considerations on the eventual risks from the presence of toxic residues in oil extracted from olives protected with synthetic insecticides. (Orig. ital.) *Olivicoltura (Italia)* 10 (3). 1955, 1-9.
- Melis, R.:** Need for accurate research on agricultural products protected with synthetic insecticides and on their effect on warm-blooded animals. (Orig. ital.) *Olivicoltura (Italia)* 11 (4). 1956, 5-8.
- Melis, R.:** Need for accurate research on residues in agricultural products treated with synthetic insecticides and their action on warm-blooded animals. (Orig. ital.) *Olivicoltura (Italia)* 11(3). 1956, 1-6.
- Melis, R.:** Need for accurate research on residues on agricultural products protected with synthetic insecticides and on the action they have on warm-blooded animals. (Orig. ital.) *Olivicoltura (Italia)* 11. 1956, 8-13.
- Merrill jr., L. G.:** Control of wireworm in potato tubers with soil application of chlorinated hydrocarbon and synthetic phosphate insecticides. (Includes residues.) *Michigan agric. Exp. Stat. Quart. Bull.* 36. 1953, 169-172.
- Metcalf, R. L.:** Radiotracers in study of systemic insecticides. *Agric. Chem., Baltimore*, 9(3). 1954, 33-35, 128-130. — *Chem. Zentralbl.* 125. 1954, 11527.
- Metcalf, R. L., Fukuto, T. R., Reynolds, H. T., and March, R. B.:** Pesticide residues. Schradan residues in cotton and cottonseed products. *J. agric., Food Chem., Washington*, 3. 1955, 1011-1013. — *Bull. signal., Paris*, 17. 1956, 1530.
- Metcalf, R. L., March, R. B., and Fukuto, T. R.:** Study of systemic insecticides; location and amounts of residue in plant tissues determined with aid of radio-phosphorus tracers. *Calif. Agric., Berkeley*, 8 (6). 1954, 5-6.
- Michel, A., et Marichal, M.:** Fermentation des vendanges traitées tardivement au captane. *Phytoma, Paris*, 8 (80). 1956, 42-44. — *Progr. agric. vitic., Villefranche*, 1956, 245-254.
- Miller, A. L.:** Proposed legislation pertaining to chemicals in food. *Food Technol., London*, 10. 1956, 337-339.
- Miller, E. J.:** A note on mercury spray residues in apples. *Plant Path., Harpenden*, 5. 1956, 119-121.
- Miller, E. J.:** The use of toxic chemicals in agriculture. *NAAS Quart. Rev.* 36. 1957, 47-52.
- Miller, E. V., and Marsteller, R. L.:** The effect of parachlorophenoxyacetic acid on physiological breakdown of the fruits of the pineapple. *Food Res.* 18. 1953, 421-425.
- Miskus, R. P., Erwin, W. R., and Hoskins, W. M.:** Harvest residues of acaricides used on deciduous fruits. *Hilgardia, Berkeley*, 26. 1956, 46-59.

- Mitra, S. N., and Roy, S. C.:** Residual DDT on stored potatoes. Possibility of toxic hazards. *J. Inst. Chem. India* 27. 1955, 233-240.
- Monfore, K. E.:** The new law on spray residues. *Proc. Washington State hortic. Assoc.* 51. 1955, 64, 66-68.
- Morgan, S. R., and Lyons, T.:** Refined benzene hexachloride in tomato planting water controlled wireworm without imparting off-flavor to processed tomatoes. *South Canner, Packer* 11 (10). 1950, 8-10.
- Morrison, H. E., Crowell, H. H., Crumb jr., S. E., and Lauderdale, R. W.:** The effects of certain new soil insecticides on plants. *J. econ. Ent.* 41. 1948, 374-378.
- Mossel, D. A. A.:** Die Haltbarmachung von Lebensmitteln auf chemischem Wege mit besonderer Berücksichtigung toxikologischer Fragen. (Toleranzen für chem. Bekämpfungsmittel.) *Ztschr. Lebensm.-Unters., Forsch.* 102. 1955, 254-268.
- Mühlmann, R., und Tietz, H.:** Das chemische Verhalten von Methylisocyanat in der lebenden Pflanze und das sich daraus ergebende Rückstandsproblem. *Höfchen-Briefe, Leverkusen*, 9. 1956, 116-140.
- Müllner, L.:** Neue Mittel zur Peronosporabekämpfung im Freilandversuch. *Mitt. höh. Bundeslehr-, Vers.anst. Wein-, Obstbau (Ser. B), Klosterneuburg*, 5. 1955, 17-33.
- Münchberg, P.:** Über die wahrscheinlichen Ursachen der Beeinflussung von Geruch und Geschmack des Erntegutes nach dessen Behandlung mit Hexapreparaten. *Ztschr. hyg. Zool.* 38. 1950, 136-144.
- Munsey, V. E.:** The fumigation, milling, and sampling of wheat and its milled products. A. Buhler Mill study. *J. Assoc. off. agric. Chemists, Washington*, 40. 1957, 165, 192.
- Munsey, V. E., Mills, P. A., and Klein, A. K.:** Cooking studies. 2. Effect of cooking on fumigant residues. (Grain products.) *J. Assoc. off. agric. Chemists, Washington*, 40. 1957, 201-202.
- Muthu, M., Kadkol, S. B., Pingale, S. V., and Swaminathan, M.:** Fumigation of stored foods. Efficacy of ethyl bromide. *Bull. centr. Food Techn. Res. Inst., Mysore*, 3. 1954, 131-135.
- Muthu, M., and Pingale, S. V.:** Control of insects pests in grains stored in insecticide-impregnated jute bags. (Includes residues.) *J. Sci. Food, Agric., London*, 6. 1955, 637-640.
- Nakamura, T., and Inaba, K.:** Effects of treatment medicines on preserve fruits. Pesticide residues. (Orig. jap.) *Kyushu agric. Res.* 15. 1955, 140-141.
- Nasir, M. M.:** Stability of contact insecticides.
IV. Relationship between the ultra-violet absorption spectrum and the photolysis of DDT and the pyrethrins. *J. Sci. Food, Agric., London*, 4. 1953, 374-378.
- Neirinckx, G., and Struelens, H.:** Effect of chlorine insecticides on the flavor of cacao products. *Meded. Landbouwhoogeschool, Opzoek.stat., Gent*, 20. 1955, 481-492.
- Newcomer, E. J., and Dean, F. P.:** DDT and other new insecticides for codling moth control in the Pacific North-West. (Includes residues.) *J. econ. Ent.* 46. 1953, 414-419.
- Nirula, K. K., Antony, J., and Menon, K. P. V.:** Effect of rainfall on the toxicity of DDT and BHC. *Proc. indian. Sci. Congr.* 40 (1953). 1954, 201.
- Noone, J. A.:** The Miller Amendment, tolerances and the grower. *Food, Drug and Cosmetic Act. Proc. New York State hortic. Soc.* 100. 1955, 161-165.
- Noone, J. A.:** Special report on multiple residues. (Regulations of Miller Amendment to Food, Drug and Cosmetic Act.) *Rev. nat. Agric. Chem. Assoc. News, Pesticide* 13 (5). 1955, 14-15.
- Noone, J. A.:** Supply situation of spray materials and fertilizers and status of residue investigation. *Proc. New York State hortic. Soc.* 96. 1951, 117-124.

- Noone, J. A.:** Too many bills! Some issues involved in State legislation. *Agric. Chem.*, Baltimore, 8 (9). 1953, 54-55, 143-145.
- Nyquist, R., and Heller, V. G.:** Insecticide residue reduction in food processing. *Agric. Chem.*, Baltimore, 8 (2). 1953, 53.
- Oettingen, W. F. v.:** The halogenated hydrocarbons toxicity and potential dangers. *Public Health Serv. Publ. nr. 414*. 1955.
- Olomucki, E., and Bondi, A.:** Problems connected with ethylene dibromide fumigation of cereals. I. Sorption of ethylene dibromide by grain. *J. Sci. Food, Agric.*, London, 6. 1955, 592-600. — *Bull. signal.*, Paris, 17. 1956, 997.
- Olsen, R. W., Stearns jr., C. R., and Hendrickson, R.:** Examination of citrus juices processed from parathion-sprayed fruit. *Food Technol.*, London, 6. 1952, 350-351.
- Orr, R. T.:** Insecticides in food plants. *Chem. Spec. Mfr. Assoc. Off. Proc. Mid-Year 38*. 1952, 93-94.
- Pagan, C., and Morris, M. P.:** Derris deposits. Fate of deposits on young bean plants. *J. agric., Food Chem.*, Washington, 1. 1953, 580-581. — *Bull. analyt.*, Paris, 15. 1954, 639.
- Page, A. B. P., and Blackith, R. E.:** Fumigation of agricultural products. IX. Sorption of fumigants at reduced pressures. *J. Sci. Food, Agric.*, London, 5. 1954, 373-376.
- Palm, C.:** Pesticide residue tolerances. *Agric. Chem.*, Baltimore, 10 (5). 1955, 49, 109.
- Palm, C. E.:** Current aspects of the spray residue problem. *Proc. New York State hortic. Soc.* 98. 1953, 218-224.
- Palm, C. E.:** How pesticide tolerances may affect the procurement of raw products. *Nat. Canners Assoc. Inform. Let.* 1526. 1955, 99-101.
- Palm, C. E.:** New policy statement issued regarding Miller Bill. Amendment to the Food, Drug and Cosmetic Act. *Agric. Chem.*, Baltimore, 10 (7). 1955, 53-54.
- Palm, C. E.:** Pesticide recommendations and research programs for 1956. Tolerance requirements. *Agric. Chem.*, Baltimore, 10 (9). 1955, 69, 143.
- Park, O., and Heath, D. F.:** Physical losses of phosphorus systemics from plants. *Compt. rend. Congr. int. Phytopharm.* 3 (1952). 1954, 742-746.
- Parkin, E. A.:** The contamination of stored wheat with DDT. *Compt. rend. Congr. int. Phytopharm.* 3 (1952). 1954, 484-490.
- Parkin, E. A., Butterfield, D. E., and Kane, M. J.:** Transfer of DDT from impregnated sacking to foodstuffs. *Great Brit. Dept. sci., industr. Res., Pest Infestation Res. Board, Rpt.* 1948. 1949, 13-14.
- Parsons, A. T.:** Problems arising from the use of chemicals in food, inorganic residues in food. *Chem. and Ind. (Rev.)*, London, 18. 1952, 384-388. — *Chem. Zentralbl.* 126. 1955, 475.
- Patel, R. M.:** Gefahren durch die Toxizität moderner organischer Insektizide. *Poona agric. Coll. Mag.* 45. 1954, 31-34. — *Chem. Zentralbl.* 127. 1956, 14166.
- Patterson, W. I., and Lehman, A. J.:** Pesticides: Some chemical considerations and toxicological interpretations. *Quart. Bull. Assoc. Food, Drug Offic. US* 17. 1953, 3-12.
- Peels, J. A. M.:** Geschmack von Früchten und Gemüse-Produkten, der durch die Anwendung von Schädlingsbekämpfungsmitteln hervorgerufen wird. (Orig. holl.) *Meded. Dir. Tuinbouw, 's-Gravenhage*, 17. 1954, 682-690.
- Pennisi, L.:** Analytische Untersuchungen über das Eindringen von DDT in Orangen. (Orig. ital.) *Ann. Sperim. agr., Roma*, n. s. 6. 1952, 15-22. — *Chem. Zentralbl.* 125. 1954, 8884.
- Pepper, B. B.:** The possible effects of insecticides on the flavor and quality of vegetables. *New Jersey State hortic. Soc. News* 34. 1953, 2602, 2617.

- Peters jr., F. N.:** Miller bill would stymie research. (Excerpts.) Regulation of food adulteration. *Food Engin.* 24 (3). 1952, 144-145.
- Petigny, M.:** Influence des traitements arsenicaux de la vigne sur la teneur en arsenic des vins du Beaujolais; conséquences toxicologiques. *Ann. Falsif.* 42. 1949, 281-287.
- Petrosian, F. G., und Sarkisian, A. A.:** Der Einfluß von mit DDT-Verbindungen behandelten Trauben auf die Gärung und Qualität des Weines. (Orig. russ.) *Akad. Nauk Armianskoi SSR Izv. Biol. i Sel'skhoz. Nauk* 3. 1950, 353-354.
- Pfadt, R. E.:** Control of army cutworms in lucerne. (Includes residues.) *J. econ. Ent.* 48. 1955, 227.
- Pfannenstiel, W.:** Besteht nach Lindan-Anwendung zur Bekämpfung von Getreideschädlingen eine Vergiftungsgefahr für den Brotkonsumenten? *Mühle* 89. 1952, 33-34.
- Pfannenstiel, W.:** Inwieweit besteht eine Gesundheitsgefährdung des Menschen durch neuzeitliche Pflanzenschutzmittel? *Anz. Schädl.kunde* 26. 1953, 177-180.
- Pfannenstiel, W.:** Über Lindane (als Getreideeinstäubemittel). *Mühle* 90. 1953, 136-137.
- Picci, G.:** Die Wirkung von Dithiocarbamaten, die als Pflanzenschutzmittel angewendet wurden, auf Hefen bei der Weingärung. (Orig. ital.) *Agric. ital., Pisa*, 55. 1955, 32-36.
- Pieri, G.:** On the influence of some insecticides and fungicides on the blastomycetic flora of grapes on the fermentation of musts, and on some components of vine. (Orig. ital.) *Ann. Sperim. agr., Roma*, 10. 1956, 545-554.
- Pieri, G., and de Rosa, T.:** Study of the possible action of the phosphoric esters on alcoholic fermentation. (Orig. ital.) *Ann. Sperim. agr., Roma, n. ser.* 6. 1952, 197-206.
- Pingale, S. V.:** Contamination of the grain stored in jute bags through surface dusting with BHC. *Proc. indian sci. Congr. Assoc.* 42 (3, Abstr.). 1955, 380.
- Pingale, S. V., and Majumder, S. K.:** Impregnation of jute bags for the insect-free storage of foods—relative efficacy, of some insecticides (includes residues). *Bull. centr. Food Technol. Res. Inst., Mysore*, 4. 1955, 83-86.
- Pingale, S. V., and Majumder, S. K.:** Residues of chlorinated insecticides on treated foods — an appraisal. *Bull. centr. Food Technol. Res. Inst., Mysore*, 5. 1955, 53-56.
- Pitanza, M.:** Kontrolle von *Dacus oleae* mit Parathion und dessen Rückstände im Öl. (Orig. ital.) *Olivicoltura (Italia)* 10. 1955, 7-14.
- Pitanza, M.:** Residui tossici dell'olio ricavato da olive trattate con esteri fosforici. *Not. Mal. Piante nr. 37/38.* 1956, 229-233.
- Poos, F. W., Dobbins, T. N., Carter, R. H., Hubanks, P. E., Ely, R. E., and Moore, L. A.:** Effects of drying procedures, plant growth, and weathering on insecticide residues on sprayed alfalfa. *US Bur. Ent., Plant Quar., Washington, E-842.* 1952, 6 p.
- Porter, B. A., and Fahey, J. E.:** Residues on fruits and vegetables. *US Dept. Agric. Yearb. Agric.* 1952, 297-301.
- Pradhan, S., and Mookherjee, P. B.:** Persistence of modern insecticides under Indian field conditions. I. Persistence on maize and castor plants. *Proc. indian sci. Congr., Bangalore*, 40 (1953). 1954, nr. 3, p. 149.
- Price, D. E.:** Relation of pesticides to health. *Agric. Chem., Baltimore*, 9 (10). 1954, 34-37, 117.
- Princi, F.:** DDT toxicity — up to date. *Soap, Chem. Spec.* 30 (6). 1954, 167, 169, 171. — *Chem. Spec. Manuf. Assoc. Proc. Mid-Year Meetg.* 40. 1954, 112-113.

- Queen, W. A.:** Distribution and adsorption characteristics of vaporized lindane. (Food contamination.) *Quart. Bull. Assoc. Food, Drug Offic. US* 17. 1953, 127-139.
- Radeleff, R. D., and Woodward, G. T.:** Toxicological problems in the use of systemic insecticides for livestock. *J. econ. Ent.* 49. 1956, 89-91. — *Bull. signal., Paris*, 17. 1956, 2215.
- Randall, W. A.:** Antibiotic residues. *Proc. int. Conf. Antibiotics Agr.* 1 (1955). 1956, 259-263.
- Rankin, W. B.:** Control of pesticides on food. *Public. Health Rept.* 71. 1956, 577-580.
- Rankin, W. B.:** The establishment of tolerances for pesticide residues. *Canning Trade, Baltimore*, 77 (21). 1954, 9-10.
- Rankin, W. B.:** The food and drug interpretation of the Miller pesticide residue amendment to the Food, Drug, and Cosmetic Act. *Antibiotics and Chemother.* 6. 1956, 253-255.
- Rankin, W. B.:** Fungicides and the Miller pesticides chemicals amendment. *US Fed. Ext. Serv., Washington*, 1956. 4 p.
- Rankin, W. B.:** Fungicides and the Miller pesticides chemicals law. *Agric. Chem., Baltimore*, 11 (2). 1956, 37, 101-102.
- Rankin, W. B.:** Growers have nothing to worry about from the Miller pesticide amendment if they follow approved label directions. *Nat. Agric. Chem. Assoc. News, Pesticide Rev.* 14 (2). 1955, 3, 14.
- Rankin, W. B.:** Growers have nothing to worry about from the Miller pesticides amendment. *Virginia Fruit* 44 (4). 1956, 44, 46, 48.
- Rankin, W. B.:** The pesticide chemicals amendment. *Veg. Growers Assoc. Amer. Ann. Rept.* 1955, 95-98.
- Rankin, W. B.:** Progress in implementing the Miller amendment. *J. agric., Food Chem., Washington*, 4. 1956, 214-220.
- Rankin, W. B.:** Tolerances for insecticide residues on foods. *J. Food, Drug, Cosmetic Law* 11. 1956, 10-16.
- Rankin, W. B., Coyne, J. T., and Palm, C. E.:** Recent developments under the Miller amendment, (Regulation of residues under the amended Food, Drug and Cosmetic Act.) *Nat. Agric. Chem. Assoc. News, Pesticide Rev.* 14. 1955, 8-9.
- Rankine, B. C.:** Lead content of some Australian wines. *J. Sci. Food, Agric., London*, 6. 1955, 576-581.
- Rao, K. R. N.:** A note on the absorption and retention of HCN by oil seeds. *Madras agric. J.* 40. 1953, 279-281. — *Chem. Zentralbl.* 127. 1956, 4549.
- Rao, N. V. S., and Pollard, A. G.:** Zersetzung des Rotenons durch Licht in Spritzrückständen. 3. Mitteilung. Kinetik der Zersetzung durch Licht. (Orig. engl.) *J. Sci. Food, Agric., London*, 2. 1951, 462-471. — *Chem. Zentralbl.* 127. 1956, 14478.
- Rasch, W.:** Schädlingsbekämpfung und Verantwortung. (In Getreide.) *Dtsch. Müller-Ztg.* 51. 1953, 281.
- Raucourt, M., et Sick, E.:** Passage de l'arsenic dans le vin de vignes traitées à l'arséniate de chaux. *Ann. Epiphyties, Paris*, 1. 1950, 383-387.
- Reece, P. C., and Horanic, G. E.:** Some varietal responses of Florida oranges to pre-harvest sprays. *Proc. Florida State hortic. Soc.* 65. 1952, 88-91.
- Reith, J. F.:** Über die Verwendung von Diphenyl als Schimmelbekämpfungsmittel für Apfelsinen und andere Citrusfrüchte. *Voeding* 17. 1956, 169-174. — *Chem. Zentralbl.* 128. 1957, 6917.
- Reynolds, H., Gilpin, G. L., and Hornstein, I.:** Flavor and benzene hexachloride content of peanuts grown in rotation with cotton dusted with insecticides containing benzene hexachloride. *US Dept. Agric. Circ.* 952. 1954, 26 p. — *Bull. analyt., Paris*, 15. 1954, 1812.

- Reynolds, H., Gilpin, G. L., and Hornstein, L.:** Pesticides and flavor; palatability and chemical studies on peanuts grown in rotation with cotton dusted with insecticides containing benzene hexachloride. *J. agric., Food Chem., Washington*, 1. 1953, 772-776. — *Chem. Zentralbl.* 125. 1954, 7731.
- Rider, J. A., Ellinwood, L. E., and Coon, J. M.:** Tolerance to octamethyl pyrophosphoramidate (OMPA). *Proc. Fed. amer. Soc. Exp. Biol. Fed.* 11. 1952, 386 (Abstr.).
- Riemschneider, R.:** Literatur zur HCH- und Dien-Gruppe. *Liste V.* P. Parey, Berlin und Hamburg 1953. 58 S.
- Riemschneider, R.:** Polychlorocyclohexene als Geruchskomponenten technischer HCH-Präparate. *Anz. Schädl.kunde* 26. 1953, 37-38.
- Riemschneider, R., und Schölzel, E.:** Literatur zur HCH- und Dien-Gruppe. *Liste III.* P. Parey, Berlin und Hamburg 1952. 128 S.
- Rings, R. W., Gould, W. A., and Dunningan, M.:** Effect of benzene hexachloride and other organic insecticides on flavor of peaches and plums. *Ohio agric. Exp. Stat. Publ. Ser.* 14. 1949, 10 p.
- Roberts, R. M.:** Insecticide makers have responsibility to public. *West. Grower, Shipper* 22 (12). 1951, 136, 138.
- Robinson, R. H.:** Spray residues and precautions relative to handling new spray materials. *Proc. Oregon State hortic. Soc.* 41. 1949, 34-37.
- Robinson, R. H.:** Spray residues on food crops and their relation to total food consumption. *Advances Chem. Ser. I.* 1950, 49-51. — *Chem. Zentralbl.* 125. 1954, 9373.
- Rodale, R.:** How harmless are sprays? Or rather, how long can we continue to treat them as a necessary part of our foods? *Organic Gardg.* 20 (2). 1952, 50-52.
- Rodriguez, J. G., and Gould, W. A.:** Effect of technical benzene hexachloride and lindane on the flavor of tomatoes and potatoes. *J. econ. Ent.* 43. 1950, 498-503.
- Rohlich, M., und Flatow, R.:** Untersuchungen über die Wirkung des p,p'-Dichlor-diphenyltrichloräthan (DDT) auf Mikroorganismen und Fermente. *Dtsch. Lebensm.-Rundschau, Nürnberg*, 1957, 249-254.
- Romano, E.:** Der Gehalt an DDT, Chlordan und HCH in Ölen, die von Olivenbäumen stammen, die mit diesen gegen die Olivenfliege behandelt wurden. (*Dacus oleae*). (Orig. ital.). *Ann. Stat. chim. agr. sperim., Roma, ser. III*, P. 36. 1950, 6 p. *Ann. Sperim. agr., Roma, n. ser. 5.* 1951, 289-295. — *Chem. Zentralbl.* 127. 1956, 8195.
- Romysh, L. F., und Codes, G. Ia.:** Bestimmung von Granosan in Korn und Kornprodukten. (Orig. russ.) *Voprosy Pitaniia* 13. 1954, 33-35.
- Rosella, E.:** On a voulu détruire les vers fil de fer, on a communiqué des mauvais goûts aux pommes de terre. *Réveil Agric. (France)* 59. 1950, 321-322.
- Roubert, J.:** Effect on alcoholic fermentation of new pesticides used in viticulture. *Compt. rend. Acad. Agric. France* 40. 1954, 486-487.
- Ruckes, H.:** A study of spray deposit on onions. *Diss. Abstr.* 16. 1956, 204.
- Rütti, R.:** Kartoffeln mit Hexageschmack. *Schweiz, landw. Ztschr. „Grüne“* 82. 1954, 252-253.
- Rusin, N. M., and Androvna, G. P.:** Hygienic evaluation of food products treated with benzene hexachloride or DDT. (Orig. russ.) *Gigiena i Sanit. (Hyg. and Sanit.)*, Moskwa, 6. 1954, 34-99.
- Rusin, N. M., and Androvna, G. P.:** Organoleptic properties of food products treated with DDT or benzene hexachloride. (Orig. russ.) *Gigiena i Sanit. (Hyg. and Sanit.)*, Moskwa, 2. 1953, 27-32.

- Rusin, N. M., Wassiljewa, O. I., und Char-tschenko, W. G.:** Hygienische Bewertung von Feldfrüchten, die mit Carbophos behandelt wurden. (Orig. russ.) *Gigiena i Sanit.* (Hyg. and Sanit.), Moskwa, 1955, 38-44. — *Chem. Zentralbl.* 127. 1956, 236.
- Saccardi, P.:** Attenzione agli insetticidi; guariscono le piante ma possono colpire l'uomo. *Agricoltura* 5. 1956, 31-37.
- Salgado, C. F.:** Insecticidas y el sabor de café. *Café Nicaragua* 9 (100/101). 1953, 13-17.
- Saller, W.:** Einfluß verschiedener Schädlingsbekämpfungsmittel auf die Gärung. *Mitt. höh. Bundeslehr-, Vers.anst. Wein-, Obstbau, Klosterneuburg*, 3. 1953, 51-56.
- Saller, W.:** Können Schädlingsbekämpfungsmittel zu Gärstörungen führen? *Mitt. höh. Bundeslehr-, Vers.anst. Wein-, Obstbau; Ser. A (Rebe u. Wein)*, 5. 1955, 33-39.
- Saller, W.:** Mikrobiologische Untersuchungen über das Fungizid Captan. *Weinberg u. Keller* 2. 1955, 234-241. — *Chem. Zentralbl.* 128. 1957, 6302.
- Sampson, W. W.:** The control of insect flight in food processing plants by residual insecticides. *J. econ. Ent.* 47. 1954, 87-93.
- Samvelian, R. M.:** Residual effect of DDT and hexachlorane on the leaves of mulberry tree. (Orig. armenisch.) *Isv. Biol. i Selskokhos. Nauk, Akad. Nauk Armi-anskoi SSR.* 9 (7). 1956, 81-87.
- Sandstead, H. R., Bing, F. C., Blanck, F. C., Oser, B. L., Procter, B. E., and Slocum, G. G.:** Statement on chemical additives. Committee on chemicals introduced in foods, Food and Nutrition Section. *Amer. J. public Health* 46. 1956, 643-644.
- Sandvoss, H. Ü.:** Spritzrückstände auf oder in Früchten, Gemüse und anderen pflanzlichen Erzeugnissen. *Dtsch. Gartenbau* 3. 1956, 262-265.
- Santini, R., and Sotelo, E.:** Determination of 0,0-diethyl-0-p-nitrophenylthiophosphate (Parathion) in pineapples. *Puerto Rico Univ. J. Agric.* 39. 1955, 12-15.
- Sather, L.:** Flavor evaluation of soil insecticide-treated food crops. *Proc. Oregon State hortic. Soc.* 45. 1953, 160-162.
- Satyanarayana, P.:** Insecticidal efficiency of DDT deposits applied to apple foliage as solutions or emulsions. *J. hortic. Sci., London*, 29. 1954, 112-125.
- Satyanarayana, P.:** The rate of loss of DDT. *Madras agric. J.* 39. 1952, 471-477.
- Saunders, B. Ch.:** Some aspects of the chemistry and toxic action of organic compounds containing phosphorus and fluorine. *Cambridge Univ. Press* 1957. 230 p.
- Schaefer, L.:** Sur la rétention de l'acide cyanhydrique par les fruits soumis à la désinfection. *Ann. Épiphyties, Paris*, 1. 1950, 286-292.
- Schaller, H. L.:** Miller Pesticide Residue Amendment; what is the bill? What are tolerances? What should you and your farmers know about this bill? *Better Farming Methods* 28 (4). 1956, 34, 37-39.
- Scheibe, E.:** Medizinische Betrachtungen zum Gebrauch von Pflanzenschutz- und Schädlingsbekämpfungsmitteln. *Wiss. Ztschr. Humboldt-Univ. Berlin, Mathem.-naturwiss. Reihe*, 4. 1954/55, 47-69.
- Scheibe, E.:** Zur Begutachtung von Bienenvergiftungen durch Pflanzenschutz- und Schädlingsbekämpfungsmittel. *Wiss. Ztschr. Humboldt-Univ. Berlin, Mathem.-naturwiss. Reihe*, 5. 1955/56, 129-134.
- Schelhorn, M. v.:** Die Verwendung von mit Diphenyl imprägnierten Packstoffen zur Haltbarkeitsverlängerung bei Citrusfrüchten. *Dtsch. Lebensm.-Rundschau, Nürnberg*, 52. 1956, 288-292. — *Chem. Zentralbl.* 128. 1957, 6917.
- Schiffmann, D. C.:** Report on sodium orthophenylphenate residues on apples, pears and citrus fruits. *J. Assoc. off. agric. Chemists, Washington*, 40. 1957, 238-242.
- Schirm, E.:** Azo colorings from benzene hexachloride residues. (Orig. portug.) *Rev. bras. Chim. (Cien. e Ind.)*, Sao Paulo, 37. 1954, 158.

- Schmidt, M.:** Vorsichtsmaßnahmen für den Umgang mit Pflanzenschutzmitteln. Biol. Zentralanst. deutsch. Akad. Landw.wiss. Berlin. Flugbl. Nr. 16. 1954, 8 S.
- Schönherr, K. E.:** Über die Geschmacksbeeinflussung von Speisekartoffeln durch Hexamittel. Nachr.bl. dtsh. Pfl.schutzd., Braunschweig, 2. 1950, 135-137.
- Schrader, G.:** Die Entwicklung neuer Insektizide auf Grundlage organischer Fluor- und Phosphor-Verbindungen. Monogr. zu „Angew. Chemie“ u. „Chemie-Ing.-Techn.“ Nr. 62. 1952, 2. Aufl., 96 S.
- Schulemann, W.:** Zusatzstoffe zu Lebensmitteln. Ernährungswirtschaft 3. 1956, 112-115.
- Schulle, H.:** Die Wirkung organischer Fungizide auf die Gärung. Weinberg u. Keller 2. 1955, 276-282.
- Schuphan, W.:** Pflanzenqualität und menschliche Gesundheit. I. Die Rolle hochwirksamer Pflanzenschutzmittel im Gemüse- und Obstbau. Rhein. Mon.schr. Gemüse-, Obst-, Gartenbau 45 (5). 1957, 114-116.
- Schwartz, E.:** Wirkung von Hexamitteln im Boden gegen Kartoffelkäfer, ihre Larven und Puppen. Nachr.bl. dtsh. Pfl.schutzd., Berlin, 8. 1954, 21-28.
- Schwartz, E.:** Zur Geschmacksbeeinflussung der Kartoffel durch die Behandlung mit Hexa-Präparaten. Nachr.bl. dtsh. Pfl.schutzd., Berlin, 4. 1950, 101-105.
- Scott, J. D.:** Those „new foods“ can kill you. Amer. Mercury 82 (389). 1956, 5-10.
- Seary, P.:** Waste in oranges; background to ban on use of thiourea. Fruit, Flower, Veg. Trades' J., London, 105 (7). 1954, 14, 18.
- Sellke, K.:** Die Einwirkung des Hexachlorcyclohexans auf die Pflanzen und auf den Geschmack von Erntegut. Nachr.bl. dtsh. Pfl.schutzd., Berlin, N. F. 5. 1951, 41-46.
- Sellke, K.:** Kornkäfereinstäubemittel und ihr Verhalten im behandelten Getreide. Nachr.bl. dtsh. Pfl.schutzd., Berlin, N. F. 6. 1952, 121-127.
- Sen, P.:** Toxic hazards of DDT. Sci. and Cult., Calcutta, 21. 1956, 505-507.
- Sharangapani, M. V., and Pingale, S. V.:** The hazard of DDT treatment of potatoes. Bull. centr. Food technol. Res., Mysore, 4. 1954, 57.
- Sharpe, R. H., and van Middlelem, C. H.:** Application of variance components to horticultural problems with special reference to a parathion residue study. Proc. amer. Soc. hortic. Sci. 66. 1955, 415-426.
- Siakotos, A. N.:** Contamination of food and air by lindane vapor. J. econ. Ent. 49. 1956, 212-214.
- Siegel, M., and Strasburger, L. V.:** Technologically speaking. Problem of insecticidal residues. Canning Trade, Baltimore, 75 (22). 1952, 6.
- Simmons, S. W.:** Insecticides and world health, WHO Expert Committee on Insecticides. Public Health Rept. 67. 1952, 451-454.
- Simpson, R. G.:** The residual systemic toxicity of DDT and parathion in potato tubers. J. Colorado-Wyoming. Acad. Sci. 4 (3). 1951, 80.
- Sloan, E.:** Problems facing the food industries in 1956. (Food contamination by economic poisons.) Quart. Bull. Assoc. Food, Drug Off. US 20. 1956, 128-135.
- Sloan, M. J., Rawlins, W. A., and Norton, L. B.:** Factors affecting the loss of DDT and parathion residues on lettuce. J. econ. Ent. 44. 1951, 701-709.
- Sloan, M. J., Rawlins, W. A., and Norton, L. B.:** Residue studies on DDT and parathion applied to lettuce for control of the six-spotted leafhopper [Macrostelus divisus]. J. econ. Ent. 44. 1951, 691-701.
- Smith, C. E., and Harrison, P. K.:** Studies of arsenical residues on cauliflower. J. econ. Ent. 44. 1951, 318-321.
- Smith, C. F., Jones, I. D., and Calvin, L. D.:** Effect of insecticides on the flavor of peaches — 1949. J. econ. Ent. 43. 1950, 179-181.

- Smith, C. F., Jones, I. D., and Rigney, J. A.:** Effect of insecticides on the flavor of peaches — 1948. *J. econ. Ent.* 42. 1949, 618-623.
- Smith, C. F., and Rabb, R. L.:** The effects of insecticides on the flavor of tobacco. *Proc. Assoc. south. agric. Workers* 51. 1954, 107.
- Smith, F. F., Edwards, F. I., Giang, P., and Fulton, R. A.:** Residues of organic phosphorus compounds and DDT on greenhouse vegetables. *J. econ. Ent.* 45. 1952, 703-707.
- Smith, F. F., Giang, P., and Fulton, R. A.:** Residues of malathion on greenhouse lettuce and tomatoes and on green onions. *J. econ. Ent.* 47. 1954, 183-185. — *Chem. Zentralbl.* 126. 1955, 11080.
- Smith, F. F., Giang, P., and Taylor, E. A.:** Reduction of malathion residues on vegetables by washing. *J. econ. Ent.* 48. 1955, 209-210. — *Bull. analyt., Paris*, 16. 1955, 3938. — *Chem. Zentralbl.* 127. 1956, 236.
- Smyth, H. F.:** The literature of pesticide toxicology. *J. agric., Food Chem., Washington*, 4. 1956, 644-646.
- Somade, H. M. B.:** Contamination and taint of cocoa beans by residual insecticides. *J. Sci. Food, Agric, Washington*, 2. 1951, 527-528. — *Chem. Zentralbl.* 125. 1954, 10801.
- Somade, H. M. B.:** Fumigation of agricultural products. XII. Sorption of methyl bromide on groundnuts. *J. Sci. Food, Agric., London*, 6. 1955, 799-804. — *Bull. signal., Paris*, 17. 1956, 1528.
- Somers, E., and Thomas, W. D. E.:** Studies of spray deposits. II. The tenacity of copper fungicides on artificial and leaf surfaces. *J. Sci. Food, Agric., London*, 7. 1956, 655-667.
- Specht, A. W., McClellan, W. D., and Marshall jr., B. H.:** Concentration of eleven elements including mercury in narcissus as related to bulb treatment. *Phytopathology* 41. 1951, 565-566 (Abstr.).
- Sperling, V.:** Entfernen toxischer Spritzrückstände von Früchten und Gemüsen für die menschliche Ernährung. (Orig. portug.) *Notas agric. Dir. Publicid. agric., São Paulo*, 7. 1949, 63-66.
- Spindler, M.:** Innertherapeutische Insektizide. *Ztschr. Pfl.krankh.* 62. 1955, 97-165.
- Spoon, W.:** Influence of systemic insecticides on cacao-bean. *Voeding* 15. 1954, 67-73.
- Spoon, W., und Sessler, W. M.:** Die Be-gasung von Kakaobohnen mit Methylbromid. *Cacao-Chocolade-Suikerwerken* 23. 1955, Nr. 10. — *Chem. Zentralbl.* 128. 1957, 6617.
- Srivastava, R. S., Chakrabarti, A. K., and Singh, N. N.:** Study of chemical and photodynamic deterioration of dichlorodiphenyl-trichloroethane (DDT) when applied on solid surfaces. *Indian J. Malariol.* 9. 1955, 27-32.
- Stankovic, A.:** Dangers de rattachant à l' application des nouveaux produits organiques de phytopharmacie. (Orig. serbo-kroat.). *Saschtita Bilja (Plant Prot.), Beograd*, 31. 1955, 99-112.
- Stansbury, R. E., and Dahm, P. A.:** The effect of alfalfa dehydration upon residues of aldrin, chlordane, parathion and toxaphene. *J. econ. Ent.* 44. 1951, 45-51.
- Starnes, O.:** The growers' stake in pesticide regulations. *Pesticide tolerances. New Jersey Agric.* 37 (3). 1955, 3-5.
- Stearns jr., C. R.:** A preliminary report on parathion residues on citrus. *Florida Entomologist* 32. 1949, 147-150.
- Stefano, F. D., e Davidova, A.:** Sul trattamento del frumento con il DDT. *Rend. Ist. super. Sanità, Roma*, 29. 1956, 797 bis 806. — *Bull. signal., Paris*, 18. 1957, 1077.
- Stellwaag, F.:** Gibt es Hexachlorpräparate ohne Geruch und Geschmack? *Ztschr. Pfl.krankh.* 56. 1949, 27-31.

- Stenger, V. A., and Mapes, D. A.:** Cooking studies.
1. Effect of baking on ethylene dibromide and total bromide residues. J. Assoc. off. agric. Chemists, Washington, 40. 1957, 196-202.
- Stier, E. F., and Maclinn, W. A.:** The effect of herbicide Karmex-W on the flavor of canned and frozen asparagus. Food Technol., London, 10. 1956, 26-27. — Bull. signal., Paris, 17. 1956, 1845.
- Stier, E. F., and Maclinn, W. A.:** The effect on the flavor of canned and frozen asparagus of the herbicide, Karmex-W. Food Technol., London, 9 (5, Suppl.). 1955, 23-24. (Abstr.).
- Stitt, L. L., and Evanson, J.:** Phytotoxicity and off-quality of vegetables grown in soil treated with insecticides. J. econ. Ent. 42. 1949, 614-617.
- Stone, H. M., Clark, P. J., and Jacks, H.:** Mercury residues on tomatoes. New Zealand J. Sci., Technol. B 35. 1954, 301-306. — Chem. Zentralbl. 125. 1954, 9122.
- Strache, F.:** Der Einfluß der Methylbromid-begasung auf Apfelsinen. Dtsch. Lebensm.-Rundschau, Nürnberg, 52. 1956, 191-195. — Chem. Zentralbl. 128. 1957, 8381.
- Summers, F. M.:** Field tests of acaricides for control of spider mites on almonds and peaches. Hilgardia, Berkeley, 26. 1956, 19-34.
- Swain, R. B.:** Effect of benzene hexachloride on coffee flavor in Nicaragua. J. econ. Ent. 46. 1953, 166-167. — Chem. Zentralbl. 125. 1954, 9608.
- Talbert, N. K.:** Residuos de las pulverizaciones de ditiocarbamatos en bananos y su eliminación. E. I. Du Pont de Nemours & Comp. — Bol. Agric., São Paulo, 10 (6). 1953, 10-13.
- Telford, H. S.:** Federal pesticide tolerances. Washington agric. Exp. Stat. Circ. 284. 1956, 9 p.
- Telford, H. S.:** Impact of new spray tolerances outlined. Better Fruit, Portland, 49 (10). 1955, 19-22.
- Thiemmedh, J.:** The effect of BHC (hexone 10-GW, gamma-isomer of benzene hexachloride) on fish, food organisms and fish production in ponds. Alabama polytechn. Inst., Grad. School, Theses 1954/55. 1956, 94.
- Thienes, C. H., Meredith, O. M., Prescott, E., and Parsons, J.:** Lack of toxicity of parathion spray residue in orange peel and juice. Proc. fed. amer. Soc. Exp. Biol. Fed. 11. 1952, 397 (Abstr.).
- Thomas, A. G.:** Untersuchung der Wirkung von Insektiziden auf behandelte Nahrungsmittel. (Rückstände auf geräucherten Nahrungsmitteln.) (Orig. ital.) Agenzia Romana Note Inform. Agr. 59. 1951, 1-2.
- Thomas, G., et Lafontaine, A.:** Le problème des résidus de pesticides dans les denrées alimentaires. Arch. belges Méd. soc. 13. 1955, 410-422.
- Thomas, G., et Lafontaine, A.:** Le problème des résidus de pesticides dans les denrées alimentaires. Aspects pharmacodynamiques et toxicologiques. Parasitica, Gembloux, 11. 1955, 126-133.
- Thomas, W. D. E., and Jones, G. D. G.:** The systemic properties of diethyl-S-2-(ethylthioethyl) phosphorothiolate (demon-S) with reference to the contamination of nectar. Ann. appl. Biol. 43. 1955, 182-191.
- Thome, H. J.:** Methoxychlor, residue tolerance. Market Growers J., Louisville (Kentucky), 84 (9). 1955, 22. — Agric. Comment (E. I. du Pont de Nemours & Comp.) 23. 1955, 69-71.
- Thome, H. J.:** Residue tolerance for pesticides. Rev. Fruit and Veg. 17 (9). 1955, 20.
- Thompson, B. D.:** The removal of insecticide residues from harvested fresh vegetables. Diss. Abstr. 14. 1954, 747.
- Thompson, B. D., and van Middeltem, C. H.:** Detergent washing for removal of insecticide residues from fresh vegetables. Florida amer. Soc. hortic. Sci. 51st Ann. Meetg. 1954, 29-30.

- Thompson, B. D., and van Middlelem, C. H.:** Removal of insecticide residues from harvested fresh vegetables. Florida agric. Exp. Stat. Ann. Rept. 1956, 97.
- Thompson, B. D., and van Middlelem, C. H.:** The removal of toxaphene and parathion residues from tomatoes, green beans, celery and mustard with detergent washings. Proc. amer. Soc. hortic. Sci. 65, 1955, 357-363.
- Tietz, H.:** „Metasystox“-Rückstandsuntersuchungen 1956. Höfchen-Briefe, Leverkusen, 9. 1956, 286-288.
- Timberlake, C. F.:** The content of arsenic, copper, iron, lead and zinc in apples, juices and ciders. Ann. Rept. agric., hortic. Res. Stat., Long Ashton (Bristol), 1951, 1952, 160-164.
- Timberlake, C. F., and Pollard, A.:** An investigation of lead arsenate spray residues on apples and in their products. Ann. Rept. agric., hortic. Res. Stat., Long Ashton (Bristol), 1951, 1952, 151-162.
- Tippins, H. H., and Hyche, L. L.:** Control of flower thrips on blackberries. (Includes residues.) J. econ. Ent. 48, 1955, 769-770.
- Tirelli, M.:** Action of methyl bromide on food products. (Orig. ital.) Selez. Tecn. molit., Roma, 6 (11), 1955, 53-54.
- Trappmann, W.:** Einstäubemittel zur Bekämpfung von Schadinsekten im Getreide. Nachr.bl. dtsh. Pfl.schutzd., Braunschweig, 4. 1952, 106-108.
- Trappmann, W.:** Pflanzenschutz tut not — aber bewahrt eure Gesundheit! Gesunde Pflanzen 5. 1953, 138-139.
- Trappmann, W.:** Die Schädlichkeit der Getreide-Einstäubemittel. Mühle 89. 1952, 498.
- Trappmann, W.:** Welche Vorsichtsmaßnahmen sind beim Einsatz chemischer Schädlingsbekämpfungsmittel zu beachten? Biol. Bundesanst. Braunschweig Flugbl. A 7. 1953, 12 S.
- Trappmann, W.:** Zur Frage der Einstäubemittel zur Kornkäferbekämpfung. Gesunde Pflanzen 1952, Sonderheft Vorratschutz, S. 26-29.
- Trappmann, W., und Zeumer, H.:** Kleiner Ratgeber über Pflanzenschutzmittel. Arb. dtsh. Landw.-Ges. Bd. 26. 1954, 100 S.
- Tressler, C. J., and Jenkins, T. H.:** Insecticide residue determination using the Hoskins purification procedure and Laug housefly bioassay method. Nat. Canners Assoc. Inform. Let. 1526. 1955, 107-109.
- Trivelli, G.:** Adhérence et persistance des bouillies cupriques sur les feuilles et les grappes de la vigne. Land. Jahrb. Schweiz 67. 1953, 941-944.
- Truhaut, R.:** Les dangers de cancérisation résultant de la présence de substances étrangères dans les aliments. Essai d'établissement d'une doctrine générale concernant les limitations d'emploi. Ann. Nutrit., Paris, 9. 1955, 5-37.
- Truhaut, R.:** Die Gefahren der Krebsentstehung durch das Vorhandensein fremder Substanzen in Nahrungsmitteln. Arzneimittelforschung 5. 1956, 613.
- Truhaut, R.:** Les risques d'action cancérogène des substances étrangères ajoutées en vue d'améliorer les qualités organoleptiques des aliments. Ann. Falsif., Fraudes 49. 1956, 107-127, 163-174.
- Truhaut, R.:** Les risques de nocivité liés à l'emploi des toxiques dans le traitement des cultures fruitières et maraîchères — mesures de prévention. Arboric. Fruitière 25. 1956, 17.
- Truhaut, R.:** Sur les dangers de cancérisation pouvant résulter de la présence de résidus de pesticides dans les aliments. Phytatrie-Phytopharmacie nr. Spéc. 1955, 57-68.
- Truhaut, R.:** Sur les risques de nocivité pour l'homme liés à l'emploi des toxiques dans le traitement des cultures fruitières et maraîchères; mesures de prévention. Compt. rend. Journées Fruitières, Maraîchères Avignon 1956, 61-84.
- Truhaut, R.:** Technological aspects of phytopharmacy. Toxicity of residues in foods Pharm. J., London, 174. 1955, 459-460.

- Truhaut, R., et Viel, G.:** Les possibilités de contamination des aliments par des produits phytopharmaceutiques (pesticides). *Bull. Soc. sci. Hyg. Aliment. France* 44. 1956, 103-131. — *Bull. signal., Paris*, 18. 1957, 677.
- Truhaut, R., et Viel, G.:** Sur la prévention des risques de nocivité pouvant provenir de la présence de résidus de pesticides dans les aliments végétaux. *Phytiatrie-Phytopharmacie* 5 (3). 1956, 135-162.
- Turner, N.:** Carbon removes off-flavor. *Frontiers Plant Sci.* 5. 1952, 7.
- Turner, N.:** Counteracting the effect of benzene hexachloride on flavor of potatoes. *J. econ. Ent.* 43. 1950, 109.
- Turner, N.:** Pesticide residues. (Tolerance regulations on food.) *Connecticut Arbo-rist* 10. 1956, 16-17.
- Turner, N.:** Pesticide residues on vegetables. (Food, Drug and Cosmetic Act.) *Proc. Connecticut Veg. Growers' Assoc.* 43. 1956, 53-60.
- Turner, N.:** Safeguarding our food supply. Recent legislation. *Frontiers Plant Sci. (Connecticut Stat.)* 8. 1955, 6.
- Turner, S. W.:** The Miller bill - and agricultural aviation. (*Drifting.*) *Swath* 3 (10). 1957, 5.
- Ulbrich, M., und Saller, W.:** Gärhemmungen durch Spritzmittel? *Mitt. höh. Bundeslehr-, Vers.anst. Wein-, Obstbau, Klosterneuburg*, 2. 1952, 164-169.
- Unterstenhöfer, G.:** Über Wesen und gegenwärtigen Stand der inneren Therapie der Pflanzen. *Gesunde Pflanzen* 4. 1952, 257-260.
- Upholt, W. M.:** Evaluating hazards in pesticides use. *J. agric., Food Chem., Washington*, 3. 1955, 1000-1006. — *Bull. signal., Paris*, 17. 1956, 1530.
- Upholt, W. M., Quinby, G. E., and Batchelor, G. S.:** Eating systox-treated fruit under controlled conditions. *Proc. Washington State hortic. Assoc.* 50. 1954, 217-220.
- Vaitsman, J.:** Official opinion on DDT. *Rev. agron., Lisboa*, 14. 1950, 109.
- Van Blaricom, L. O., Forster, H. H., and Evans, D. C.:** The effect of pesticides on the flavor of canned peaches. *Plant Dis. Reprtr.* 39. 1955, 944-946.
- Van den Driessche, S.:** Les résidus d'insecticides dans les aliments. *Rev. Ferment., Ind. aliment.* 10. 1955, 167-176.
- Van der Westhuyzen, J. P.:** Lead contamination of wines and spirits. *Farming South Afr.* 29. 1954, 524, 526.
- Van Genderen, H.:** Pesticides as a source of food contamination. *Voeding* 16. 1955, 742-753.
- Van Hecke, W., Hans-Berteau, M. J., Heyndricks, A., et Thomas, F.:** L'empoisonnement aigu par le Parathion. *Ann. Med. leg. Criminol. France* 35 (6). 1955, 291-303. — *Bull. signal., Paris*, 17. 1956, 997.
- Van Middlelem, C. H.:** Analytical procedures for determining residues of systox and other systemic insecticides in vegetables and certain subtropical fruits. (Residue data.) *Florida agric. Exp. Stat. Ann. Rept.* 1956, 103-104.
- Van Middlelem, C. H.:** Pesticide residues on vegetables. *Florida agric. Exp. Stat. Ann. Rept.* 1956, 99-100.
- Van Middlelem, C. H.:** Status of pesticide residues on Florida vegetables. (Chiefly insecticides.) *Proc. Florida State hortic. Soc.* 65. 1952, 159-162.
- Van Middlelem, C. H., and Waites, R. E.:** Insecticide residues on vegetable crops. *Florida amer. Soc. hortic. Sci.* 51st Ann. Meetg. 29. 1954.
- Van Middlelem, C. H., and Waites, R. E.:** Residues of toxaphene, chlordane, parathion, malathion and demeton on several fresh vegetables. *Proc. amer. Soc. hortic. Sci.* 65. 1955, 365-370. — *Bull. signal., Paris*, 17. 1956, 997.

- Van Middlelem, C. H., and Wilson, J. W.:** Parathion residues on celery. *J. econ. Ent.* 48. 1955, 88-90. — *Bull. analyt., Paris*, 16. 1955, 3182.
- Van Middlelem, C. H., Wilson, J. W., and Hanson, W. D.:** Sampling studies related to insecticide residues on cabbage and celery. *J. econ. Ent.* 49. 1956, 612-615. — *Bull. signal., Paris*, 18. 1957, 1759.
- Van Scoik, W. S.:** Toxicity of insecticides to humans. *Proc. indian Acad. Sci.* 65. 1955, 129-138.
- Vaughn, R. H., and Hartmann, H. T.:** Off-flavor in canned olives; tests show application of certain insecticides to olive trees will produce musty flavor in the fruit. *Calif. Agric., Berkeley*, 8 (10). 1954, 13-14.
- Venezia, M.:** More of the use of the gamma isomer (lindane) in disinfection of food grains. (Orig. ital.) *Not. Mal. Piante* nr. 33. 1955, 49-55.
- Venezia, M., und Papadantonakis, S.:** Beitrag zur Untersuchung der Giftigkeit von Parathion in Olivenöl. (Orig. ital.) *Not. Mal. Piante* nr. 34. 1956, 34-43.
- Verona, O.:** Carbamates and phthalimide compounds in vine fermentation. *Not. Mal. Piante* nr. 35-36. 1956, 174.
- Viel, G.:** Gefahren bei der Verwendung von Schädlings- und Unkrautbekämpfungsmitteln.
In: *Die wirksame Anwendung neuzeitlicher Pflanzenschutz- und Unkrautbekämpfungsmittel.* (Bericht über die Studientagung in Frankreich v. 5.-17. 7. 1954, Paris), O.E.E.C. 1955, S. 17-21.
- Viel, G.:** Sur la toxicité de quelques herbicides. *Phyto-Entreprise* 3 (26). 1957, 15-17.
- Viel, G.:** La toxicité des pesticides et les risques d'intoxication par suite de leur emploi en agriculture. *Phyto-Entreprise* 3 (28). 1957, 7-13.
- Viel, G.:** Variation de l'effect toxique en fonction de la qualité de poudre déposée dans les poudrages insecticides. *Pomme Terre franc.* 14 (138). 1951, 14-15.
- Viel, G., et Giban, J.:** Étude de la stabilité du phosphore de zinc dans les grains empoisonnés. *Phytiatrie-Phytopharmacie* 4. 1955, 171-176.
- Viel, G., et Raucourt, M.:** Les résidus de pesticides dans les traitements agricoles: leur importance et les dangers qu'ils peuvent présenter. *Meded. Landbouwhoogeschool. Opzoek. stat. Gent*. 19. 1954, 311-339. — *Bull. analyt., Paris*, 16. 1955, 2119.
- Vigne, J. P., Chouteau, J., Tabau, R. L., Rancien, P., et Karamanian, A.:** Contribution à l'étude du métabolisme d'un insecticide organo-phosphore le diéthylthionophosphate de 2-isopropyl-4-méthyl-6 oxypyrimidine. *Ann. Épiphyties, Paris*, 8. 1957, 225-234.
- Vinson, E. B., and Arant, F. S.:** Parathion, toxaphene and DDT residues on peanut hay. *J. econ. Ent.* 43. 1950, 942-943.
- Viswanathan, D. K., Ramachandra Rao, T., and Juneja, M. R.:** Further notes on the use of benzene hexachloride as a residual insecticide compared with dichlorodiphenyltrichloroethane. *Indian J. Malariol.* 4. 1950, 505-531.
- Vita, D., und de Fenu, O.:** Immunità des Weines gegen Verunreinigung mit DDT. (Orig. ital.) *Rend. Ist. super. Sanità, Roma*, 17. 1954, 817-822. — *Chem. Zentralbl.* 127. 1956, 3443.
- Vogelsänger, W.:** Die Bestimmung selektiver Auswaschung von Spritzbelägen. *Nachr.bl. dtsh. Pfl.schutzd., Braunschweig*, 7. 1955, 29-30.
- Vorhes, F. A.:** Requirements of analytical data. *J. agric., Food Chem., Washington*, 4. 1956, 415-416.
- Waites, R. E.:** Effect of climatic factors on insecticide residues on vegetable crops. *Florida agric. Exp. Stat. Ann. Rept.* 1956, 87-88.
- Waites, R. E.:** Pesticide residues on vegetables. *Florida agric. Exp. Stat. Ann. Rept.* 1956, 85-86.

- Waite, R. E., and van Middleem, C. H.:** Residue studies of toxaphene, parathion and malathion on some Florida vegetables. *J. econ. Ent.* 48. 1955, 590-593.
- Walker, K. C.:** Parathion spray residues on soft fruits, apples and pears. *Advances Chem. Ser. 1.* 1950, 123-127.
- Walker, K. C.:** Selenium residue on and in the peel of Washington apples. *Advances Chem. Ser. 1.* 1950, 108-111. — *Chem. Zentralbl.* 127. 1956, 3976.
- Walker, K. C., Goette, M. B., and Batchelor, G. S.:** Pesticide residues in food. Dichlorodiphenyl-trichloroethane and dichlorodiphenyl-dichloroethylene content of prepared meals. *J. agric., Food Chem., Washington, 2.* 1954, 1034-1037.
- Wanntorp, H.:** Chemie und Toxikologie der wichtigsten Schädlingsbekämpfungsmittel. *Monatsh. Vet.med., Leipzig*, 11 (Spez.-Nr. 2). 1956, 652-662.
- Ward, J., and Burt, P. E.:** The persistence and fate of DDT on foliage. II. Comparative rates of loss of DDT deposits from glass plates and growing leaves. *Bull. ent. Res.* 46. 1956, 849-868.
- Warner, R. M.:** Insecticide residues on figs. *Proc. Ann. Res. Conf. Calif. Fig Inst.* 7. 1953, 23-25.
- Warner, R. M., Pilgrim, A. J., and Fisher, C. D.:** Quality tests of figs after ethylene oxide fumigation. *Proc. Ann. Res. Conf. Calif. Fig Inst.* 4. 1950, 29-30.
- Watanabe, T.:** Studies on the effect of Pestox. 3. Effectiveness to the injurious insects of pear and the remained poisonous grade of the fruit. (Effects on *Toxoptera piricola* and *Grapholitha molesta*.) *Bull. Kanagawa agric. Exp. Stat. hortic.* Br. 3. 1955, 55-59.
- Watts, J. G.:** Effects of insecticides on a) phytotoxicity, b) off-flavor. (Fruit and vegetables.) *Proc. Assoc. south. agric. Workers* 51. 1954, 51-98.
- Watts, J. G.:** Effects of insecticides on phytotoxicity and off-flavor. *Farm. Chem.* 118 (5). 1955, 47-48, 50, 52.
- Watts, J. G.:** Response of nut grass (*Cyperus rotundus*) to soil applications of organic insecticides. Used in control of cotton pests. *Proc. Assoc. south. agric. Workers* 50. 1953, 50-107.
- Webster, R. L.:** New insecticides: their use, limitations and hazards to human health. *Washington agric. Exp. Stat. Circ.* 64 (rev.). 1950, 51 p.; 1951, 67 p.
- Weckel, K. G., and Chapman, R. K.:** Flavor problems and other effects of insecticidal applications to vegetables grown for canning. *Food Packer, New York*, 34. 1953, 32-34. — *Chem. Zentralbl.* 124. 1953, 8701.
- Weinman, C. J.:** Insecticides and residues. *Proc. amer. Assoc. econ. Entomologists, North Centr. States Br.* 4. 1949, 13-14.
- Weiss, F. A.:** Antibiotics, pesticides and food. *Nat. hortic. Mag., Washington*, 33. 1954, 115-117.
- Wen, J., Tsao, C. Y., and Wan, C. S.:** Preliminary report on the translocation of an organic phosphorous insecticide used in control of the cotton aphid (*Aphis gossypii* Glover). (Systox.) (Orig. chin.) *Acta Ent. Sinica* 5. 1955, 115-121.
- Wene, G. P.:** Parathion and DDT residues on vegetables. *Proc. Rio Grande Valley hortic. Inst.* 6. 1952, 75-77.
- Wene, G. P., Burdick, E. M., and Otey, G. W.:** Benzene hexachloride contamination in processed tomatoes and turnip greens. *Proc. Rio Grande Valley hortic. Inst.* 6. 1952, 73-74.
- Wene, G. P., Otey, G. W., and Griffiths, F. P.:** Effect of benzene hexachloride and lindane on the flavor of purple hull peas. *Proc. amer. Soc. hortic. Sci.* 64. 1954, 390-392. — *Bull. analyt., Paris*, 16. 1955, 4476.
- Werner, R.:** Organisch-synthetische Schädlingsbekämpfungsmittel im Weinbau und ihre Bedeutung für den Lebensmittelchemiker. *Angew. Chem.* 64. 1952, 360. — *Ztschr. Lebensm.-Untersuch., -Forsch.* 96. 1953, 118.

- Westlake, W. E., and Butler, L. I.:** Residues of malathion on fruits and vegetables. *J. econ. Ent.* 46. 1953, 850-852.
- Westlake, W. E., and Fahey, J. E.:** DDT and parathion spray residues on apples. *Advances Chem. Ser.* 1. 1950, 117-122.
- Weyl, V. E.:** Fact or fancy in use of agricultural chemicals. (Food contamination by pesticides used in production of foods.) *Proc. Ohio Veg., Potato Growers' Assoc.* 37. 1952, 28-37.
- Whitcomb, W. D.:** A cooperative test to evaluate methoxychlor for the control of the plum curculio (*Conotrachelus nenuphar*) on apples. *Massachus. Fruit Growers' Assoc. Rept. Ann. Meetg.* 58. 1952, 91-95.
- Whitehead, S. B.:** Are plant sprays poisoning our food? *New Health, London*, 28 (3). 1953, 11-14.
- Wichmann, H. J.:** Report on metals, other elements, and residues in foods. *J. Assoc. off. agric. Chemists, Washington*, 35. 1952, 530-537. — *Bull. analyt., Paris*, 15. 1954, 1380.
- Wickenden, L.:** Our daily poison; the effects of DDT, fluorides, hormones, and other chemicals on modern man. *New York, Devin-Adair*, 1955, 178 p.
- Wilbur, D. A.:** Wirkung von Piperonyl-butoxyd und Pyrethrin enthaltenden insektiziden Stäuben auf den Geruch von Eiern bei der Zumischung zu Weizen. (Orig. engl.) *J. econ. Ent.* 45. 1952, 899. — *Chem. Zentralbl.* 127. 1956, 7920.
- Wiley, R. C., Briand, A. M., Henderson, J. E., Fagerson, I. S., and Murphy, E. F.:** Evaluation of flavor changes due to pesticides — a regional approach. *Food Technol., London*, (10) 5 Suppl) 1956, 36.
- Wilhelm, R. M.:** The Miller Bill and your pest control program. *J. New Hampshire hortic. Soc.* 19. 1956, 27-34.
- Williams, A. T.:** Here's how to control fruit pests without leaving toxic residues. *East. States Co-op.* 32 (3). 1956, 8-10.
- Wilson, A. R., and Dawson, J. A.:** Residues of tetrachloronitrobenzene on ware potatoes. *J. Sci. Food, Agric., London*, 4. 1953, 305-310. — *Bull. analyt., Paris*, 15. 1954, 1387. — *Chem. Zentralbl.* 125. 1954, 7762.
- Wilson, A. R., and Harries, J. M.:** Flavour of potatoes treated with tetrachloronitrobenzene and isopropyl N-phenylcarbamate. *J. Sci. Food, Agric., London*, 5. 1954, 80-85.
- Wilson, J. R.:** The problem of toxic spray residue on fruits and vegetables. *Food Drug Cosmetic Law Quart.* 1949, 85.
- Wilson, J. W.:** Pesticide residues on vegetables. *Florida agric. Exp. Stat. Ann. Rept.* 1956, 152.
- Wilson, J. W.:** Toxic insecticide residues of vegetables. *Proc. Florida State hortic. Soc.* 63. 1950, 95-98.
- Wilson, R. H., Poley, G. W., and Deeds, F.:** Toxicity studies on pear pomace containing mixture of insecticide residues. *Proc. fed. amer. Soc. Exp. Biol. Fed.* 14. 1955, 394 (Abstr.).
- Winkler, W. O.:** Report on thiourea in chemical sprays. (Residues in food.) *J. Assoc. off. agric. Chemists, Washington*, 36. 1953, 740.
- Winteringham, F. P. W.:** The fate of labelled insecticide residues in food products. IV. The possible toxicological and nutritional significance of fumigating wheat with methyl bromide. *J. Sci. Food, Agric., London*, 6. 1955, 269-274.
- Winteringham, F. P. W.:** Some aspects of insecticide biochemistry. *Endeavour, London*, 11 (41). 1952, 22-28.
- Winteringham, F. P. W., and Barnes, J. M.:** Comparative response of insects and mammals to certain halogenated hydrocarbons used as insecticides. *Physiol. Rev., Baltimore*, 35. 1955, 701-739.

- Winteringham, F. P. W., Harrison, A., Bridges, R. G., and Bridges, P. M.:** The fate of labelled insecticide residues in food products. II. The nature of methyl bromide residues in fumigated wheat. *J. Sci. Food, Agric.*, London, 6. 1955, 251-261.
- Winteringham, F. P. W., Harrison, A., Jones, C. R., McGirr, J. L., and Templeton, W. H.:** The fate of labelled insecticide residues in food products. I. Studies with a radioactive bromine analogue of DDT. *J. Sci. Food, Agric.*, London, 1. 1950, 214-219.
- Wise, W. S.:** Stream contamination from spraying operations. From insecticides, fungicides and herbicides. *Connecticut Arborist* 6 (2). 1952, 2-3.
- Wolf, J.:** Obst und Gemüse chemisch konserviert. *Umschau* 56. 1956, 129-132.
- Wolfenbarger, D. O., and van Middleem, C. H.:** Reductions of insecticidal residue on mature greenwrap tomatoes. *Proc. Assoc. south. agric. Workers* 52. 1955, 98 (Abstr.). — *J. econ. Ent.* 48. 1955, 744-746.
- Wolfram, R.:** Versuche über Getreidebehandlung mit kontaktinsektiziden Stäuben. *Mühle* 89 (26). 1952, 405-406.
- Yothers, M. A.:** Preliminary studies on deposit of insecticides used against the cherry fruit fly (*Rhagoletis cingulata*). *Proc. Washington State hortic. Assoc.* 46. 1950, 41-44.
- Yothers, M. A., Westlake, W. E., and Butler, L. I.:** Studies on deposits of insecticides used by growers against the cherry fruit fly (second report, 1951—1952). *Proc. Washington State hortic. Assoc.* 48. 1952, 213-214, 216-219.
- Zäch, C.:** Übersicht über die neueren organischen Pflanzenschutzmittel unter besonderer Berücksichtigung ihres Verhaltens gegenüber Lebensmitteln. *Mitt. Geb. Lebensm.-unters., Hyg.* 41. 1950, 76-90.
- Zeetti, R.:** Über die Gefahr für Menschen und Tiere durch die Anwendung moderner Schädlingsbekämpfungsmittel. (Insbesondere DDT.) (Orig. ital.) *Vet. Ital.* 7. 1956, 225-238.
- Zeumer, H.:** Einfluß der Schädlingsbekämpfungsmittel auf den Geschmack der Obst- und Gemüsekonserven. *Ind. Obst-, Gemüseverwert.* 37. 1952, 416-417. — *Chem. Zentralbl.* 124. 1953, 5269.
- Zeumer, H.:** Die Entwicklung der Lindan-Präparate in Deutschland. *Compt. rend. Congr. Int. Phytopharm.* 3 (1952). 1954, 850-852.
- Zeumer, H.:** Geschmacksbeeinflussung durch Hexa-Präparate. *Mitt. Biol. Zentralanst., Berlin-Dahlem*, Heft 74. 1952, 122-125.
- Zinkernagel, R., Gasser, R., und Domenjoz, R.:** Über Getreidekonservierung. *Mitt. schweiz. ent. Ges.* 19. 1946, 653-691.
- Ziv, S.:** Damage by spray and dust preparations. (Orig. hebr.) *Hassadeh*, Tel Aviv, 31. 1951, 173-174.
- Zweede, A. K.:** Beigeschmack durch die Anwendung von Insektiziden. (Früchte und Gemüse.) (Orig. holl.) *Meded. Dir. Tuinbouw*, Wageningen, 16. 1953, 349-356.
- American Conference of Governmental Industrial Hygienists:** Threshold limit values for 1954, adopted at the sixteenth annual meeting of the American Conference of Governmental Industrial Hygienists, Chicago, 24—27 April 1954. *Arch. ind. Hyg., Baltimore*, 9. 1954, 530-534.
- American Conference of Governmental Industrial Hygienists:** Threshold limit values for 1955, adopted at the seventeenth annual meeting of the American Conference of Governmental Industrial Hygienists, Buffalo, 24—28 April 1955. *Arch. ind. Health* 11. 1955, 521-524.
- American Cyanamid Company:** Malathion residues — apples. *Analyt. Res. Lab. Mimeogr.* 1954, 4 p.

- American Medical Association.** Council on Pharmacy and Chemistry. Committee on Pesticides: Pharmacologic properties of toxaphene, a chlorinated hydrocarbon insecticide. *J. amer. med. Assoc.* 149. 1952, 1135-1137.
- American Medical Association.** Council on Pharmacy and Chemistry. Committee on Pesticides: The present status of chlor-dane. *J. amer. med. Assoc.* 158. 1955, 1364-1367.
- American Medical Association.** Council on Pharmacy and Chemistry. Committee on Pesticides: Report on the Council: Abuse of insecticide fumigating devices. *J. amer. med. Assoc.* 156. 1954, 607.
- Analysts** aid battle on insects. *Analytic. Chem., Washington*, 29. 1957, 29 A.
- Aramite** tolerance extended. *Agric. Chem., Baltimore*, 10 (10). 1955, 64.
- BHC**-found to cause off flavour in olives. *J. agric., Food Chem., Washington*, 2. 1954, 856.
- Cincinnati University, College of Medicine, Kettering Laboratory:** The toxicity of DDT. *Cincinnati* 1950. 249 p.
- DDT**-residues on corn. *Agric. Chem., Baltimore*. 11(4). 1956, 85.
- Don't** gamble with poison spray residues. *Farm Mangt.* 5 (2). 1956, 43-45.
- Einfluß** der Schädlingsbekämpfungsmittel auf den Geschmack der Obst- und Gemüsekonserven. *Ind. Obst-, Gemüse-verwtg.* 37. 1952, 214.
- Experiments** on the possible contamination of honey with Schradan. *Ann. Biol. appl., Paris*, 40. 1953, 546.
- FDA** tolerance on aramite. *Agric. Chem., Baltimore*, 10 (11). 1955, 72.
- First** tolerance. 2,4-dichlorophenoxyethyl-sulfate. *J. agric., Food Chem., Washington*, 3. 1955, 277.
- Five** year DDT residue. *Agric. Chem., Baltimore*, 7 (9). 1952, 71.
- Florida** University, Agricultural Extension Serv.: Some questions and answers on vegetable pesticide tolerances. *Florida Univ. agric. Ext. Circ.* 140. 1955, 8 p.
- Florida** University, Agricultural Extension Serv.: Vegetable pesticide tolerance guide. *Florida Univ. agric. Ext. Circ.* 159. 1956, 3 p.
- Geigy Agricultural Chemicals:** Chlorobenzilate residues. *Mimeogr.* 1953, 6 p.
- Geschmacksbeeinflussungen** durch Pflanzenschutzmittel. *Pflanzenarzt, Wien*, 6 (2). 1953, 1-2.
- Great Britain** Food Standards Committee: Report on arsenic; revised recommendations for limits for arsenic in foods. *London* 1955, 5 p.
- Great Britain** Food Standards Committee: Report on lead; revised recommendations for limits for lead content of foods. *London* 1954, 11 p.
- Great Britain** Medical Research Council: Report for the year 1952—1953. (Includes "hazards in the use of pesticides", p. 39-41.) *London* 1954, 269 p.
- Great Britain** Ministry of Agriculture, Fisheries and Food, Working Party on precautionary Measures against toxic chemicals used in Agriculture: Toxic chemicals in agriculture: residues in food; report to the Ministers of Agriculture and Fisheries, Health and Food, and to the Secretary of State for Scotland. *H. M. Stat. Off., London* 1953. 32 p.
- Great Britain** Ministry of Food. Food Standards Committee, Metallic Contamination Subcommittee: Arsenic report. *Gr. Brit. Food Standards Comm., Metallic Contamination Sub-Comm. Rept.* 1. 1949, 4 p.
- How** is the Miller Bill working out in practice? *Agric. Chem., Baltimore*, 10 (9). 1955, 34-38, 120.

- How to operate under the Miller Pesticide Residue Amendment; a panel discussion.** Farm Chem. 117 (10). 1954, 26-30, 32.
- Insecticide residues.** Analytic. Chem., Washington, 27. 1955, 628.
- Insecticide residues on strawberry fruits.** Florida agric. Exp. Stat. Ann. Rept. 1956, 336-337.
- Insecticide tolerance set.** (For Perthane on spinach, lettuce and cherries.) J. agric., Food Chem., Washington, 4. 1956, 657.
- Lindan tolerances set.** Agric. Chem., Baltimore, 10 (8). 1955, 71.
- Metallic elements in foodstuffs (includes tolerances).** Arch. Bromatol., Rio de Janeiro, 2. 1954, 29-37.
- Miller Law tolerances and effective dates.** Agric. Chem., Baltimore, 10 (9). 1955, 36.
- Minoc, Société de produits chimiques pour l'industrie et l'agriculture: Residual tolerances and restrictions in the use of agricultural pesticides.** Techn. Letter 5. 1957, 9 p.
- National Pickle Packers Association: Warning against use of cucumbers grown on land treated with benzene hexachloride.** Oak Park III. 1950.
- Naugatuck Chemical Company: Aramite residues on various crops.** Mimeogr. 1954, 22 p.
- New laws make analyst key man in pesticide industry.** Analytic. Chem., Washington, 29. 1957, 21 A-26 A.
- No residue problem.** J. agric., Food Chem., Washington, 2. 1954, 962.
- Official FDA tolerances listed.** Nat. agric. Chem. Assoc. News 14 (5). 1956, 8-15.
- Parathion residues studies.** Agric. Chem., Baltimore, 10 (4). 1955, 63.
- Pesticide policies of food packers; as growers and packers of foodstuffs cooperate more closely, packers issue definite specifications for growers' use of pesticides and fertilizers.** J. agric., Food Chem., Washington, 5. 1957, 178-181.
- Pesticide residues in meats, milk.** J. agric., Food Chem., Washington, 5. 1957, 241.
- Pflanzenqualität — Nahrungsgrundlage 1955.** In: Internationale Tagung. Dtsch. Lebensm.-Rundschau, Nürnberg, 1955, 296 (Ref.).
- Proposed rule making.** Fed. Register 1954, 6733-6772; 1955, 1475-1493.
- Public health aspects; panel discussion.** (Includes residues in food.) Proc. int. Conf. Antibiotics, Agric. 1 (1955). 1956, 265-278.
- Pyrenone tolerances set.** Agric. Chem., Baltimore, 11(10). 1956, 101.
- Report of cocoaconference held at Grosvenor House, London, 11th to 13th September, 1951.** Cocoa, Chocolate and Confectionary Alliance, Ltd., London [1951]. XIII + 152 p., 10 fig., 2 tab., 16 tab. geogr.
- Research Newsletters.** J. agric., Food Chem., Washington, 3. 1955, 457.
- Residue analysis.** J. agric., Food Chem., Washington, 5. 1957, 323.
- Special report: Miller Pesticide Residue Amendment. Amendment to Food, Drug and Cosmetic Act.** Nat. agric. Chem. Assoc. News, Pesticide Rev. 12 (6). 1954, 7-30.
- Summary of tolerance applications field up to October 1, 1955, for pesticides.** Agric. Chem., Baltimore, 10 (11). 1955, 58.
- Tolerance levels for residues of Karmex herbicides.** (3-(p-chlorophenyl) 1,1-dimethylurea.) J. agric., Food Chem., Washington, 3. 1955, 998.
- Tolerances and exemptions from tolerances for pesticide chemicals in or on raw agricultural commodities.** Fed. Register USA Part 120. 1955, 759, 1473, 1493.
- Tolerances and exemptions from tolerances for pesticide chemicals on raw agricultural commodities.** Notice of proposed rule making. Fed. Register 19. 1954, 6733-6738.

- Tolerances** for poisonous or deliterious residues in or on fresh fruits and vegetables. Notice of proposed rule making. Fed. Register 19, 1954, 6738-6772.
- Tolerances** for residues of aramite (2-(p-tert-butylphenoxy)isopropyl 2-chloroethyl sulfite). Fed. Register 20, 1955, 7301.
- Tolerances** for residues of malathion. Fed. Register 20, 1955, 7903.
- Tolerances** for residues of maneb. Fed. Register 20, 1955, 7902-7903.
- Tolerances** for residues of 3-(p-chlorophenyl)-1, 1-dimethylurea. Fed. Register 20, 1955, 7301.
- Tolerances** of pesticidal residues. Proc. Florida State hort. Soc. 68, 1955, 13-22.
- Toxic chemicals** in agriculture. Residues in food. Minist. Agric., Fish., London, Bull. 1953, 32 p.
- Toxic hazards** of pesticides to man. Report of a study group. World Health Org. Techn. Rep. ser. nr. 114, 1956, p. 51.
- Über die Bedeutung** von Schädlingsbekämpfungsmitteln für die Volksgesundheit. J. R. Geigy A.G. Basel 1957. 14 p.
- Übersicht** über die neueren organischen Pflanzenschutzmittel unter besonderer Berücksichtigung ihres Verhaltens gegenüber Lebensmitteln. Mitt. Geb. Lebensm.-unters., Hyg. 41, 1950, 76-90.
- United States:** Additional residue tolerances for Dow agricultural chemicals. Down to Earth, Midland (Michigan), 13 (2). 1957, 16.
- United States:** Pesticide tolerance petitions filed. Oil Paint Drug Repr. 1957, 55.
- United States:** Tolerances for residues of sodium dimethyldithiocarbamate. Fed. Register 22, 1957, 3106.
- United States:** Tolerances for residues of sodium 2,2-dichloropropionate. Fed. Register 22, 1957, 4076.
- US 83d Congress:** Public Law 518, An Act to amend the Federal Food, Drug and Cosmetic Act with respect to residues of pesticide chemicals in or on raw agricultural commodities. Approved 22 July 1954.
- US Congress House, Committee on Interstate and Foreign Commerce:** Federal Food, Drug, and Cosmetic Act (pesticides). Hearing, 83d Congr., 1st sess., on H. R. 4277, a bill to provide for the health and protection of the citizens of the United States from harmful chemical additives in pesticides. Washington 1953, 143 p.
- US Congress House, Committee on Interstate and Foreign Commerce:** Federal Food, Drug, and Cosmetic Act (residues of pesticide chemicals — agricultural commodities). Hearing, 83d Congr., 2d sess., on H. R. 7125, a bill to amend the Federal Food, Drug, and Cosmetic Act with respect to residues of pesticide chemicals in or on raw agricultural commodities, March 8, 1954. Washington 1954, 39 p.
- US Congress Senate, Committee on Labor and Public Welfare:** Residues of pesticide chemicals. Hearing, 83d Congr., 2d sess., on S. 2368 a bill to amend the Federal Food, Drug, and Cosmetic Act with respect to residues of pesticide chemicals in or on raw agricultural commodities and H. R. 7125, an act to amend the Federal Food, Drug, and Cosmetic Act with respect to residues of pesticide chemicals in or on raw agricultural commodities, June 23, 1954. Washington 1954, 101 p.
- Wieviel Rückstand** hinterlassen Spritzmittel auf Gemüsepflanzen. Pflanzenarzt, Wien, 7, 1954, 4.

B) Angaben über die Einwirkung der Rückstände auf Tiere, wie Giftwirkung, Speicherung, Metabolismus, Ausscheidung (Milch).

- Ackerson, C. W., and Mussehl, F. E.:** Toxicity of treated maize seed in rations for chicks. *Poultry Sci.* 34. 1955, 728-729.
- Alexejewa, A. A.:** Ausscheidung von DDT mit der Milch der damit behandelten Kühe und Einfluß dieser Milch auf die Entwicklung von Ferkeln. (Orig. russ.) *Tierheilkunde* 32. 1955, 69-73. — *Chem. Zentralbl.* 126. 1955, 7252.
- Ambrose, A. M., Christensen, H. E., Robbins, D. J., and Rather, L. J.:** Toxicological and pharmacological studies on chlordane. *Arch. ind. Hyg., occup. Med., Baltimore*, 7. 1953, 197-210.
- Annau, E.:** Estimation of pentose nucleic acid and desoxyribose nucleic acid in the liver and brain tissue of mice following the feeding of the insecticide aldrin (hexachlorohexahydrodimethanonaphthalene). *Canad. J. Biochem., Physiol.* 32. 1954, 178-183.
- Annau, E., and Konst, H.:** Enzymatic changes in the liver of mice following feeding of the insecticide aldrin (hexachlorohexahydrodimethanonaphthalene). *Canad. J. med. Sci.* 31. 1953, 146-150.
- Arthur, B. W., and Casida, J. E.:** Mode of action of insecticides: Metabolism and selectivity of O, O-dimethyl 2, 2, 2-trichloro-1-hydroxyethyl phosphonate and its acetyl and vinyl derivatives. *J. agric., Food Chem., Washington*, 5. 1957, 186-192.
- Bär, F.:** Fütterungsversuche mit Systox-behandelten Zuckerrüben. *Arzneimittelforschung* 4. 1954, 668-672.
- Bann, J. M., DeCino, T. J., Earle, N. W., and Yun-Pei Sun:** The fate of aldrin and dieldrin in the animal body. *J. agric., Food Chem., Washington*, 4. 1956, 937-941.
- Barnes, J. M., Magee, P. N., Boyland, E., Haddow, A., Passey, R. D., Bullough, W. S., Cruickshank, C. N. D., Salaman, M. H., and Williams, R. T.:** The non-toxicity of maleic hydrazide for mammal tissues. *Nature, London*, 180. 1957, 62-64.
- Bateman, G. Q., Biddulph, C., Harris, J. R., Greenwood, D. A., and Harris, L. E.:** Toxaphene. Transmission studies of milk of dairy cows fed toxaphene-treated hay. *J. agric., Food Chem., Washington*, 1. 1953, 322-324. — *Bull. analyt., Paris*, 15. 1954, 983.
- Berger, J.:** Futtermittelfgiftung bei Kühen anläßlich einer Maikäferbekämpfung mit Hexachlorcyclohexan? (Bemerkungen zu vorstehendem Artikel siehe Gratzl, E.) *Wiener tierärztl. Monatsschr.* 38. 1951, 597.
- Biddulph, C., Bateman, G. Q., Bryson, N. J., Harris, J. R., Greenwood, D. A., Binns, W., Miner, M. L., Harris, L. E., and Madsen, L. L.:** DDT in milk and tissues of dairy cows fed DDT-dusted alfalfa hay. *Advances Chem. Ser.* 1. 1950, 237-243.
- Biddulph, C., Bateman, G. Q., Harris, J. R., Greenwood, D. A., and Harris, L. E.:** Toxaphene in milk of dairy cows fed toxaphene-treated alfalfa hay. Paper presented amer. chem. Soc. Meetings, Los Angeles, Calif., 1953.
- Biddulph, C., Bateman, G. Q., Harris, J. R., Mangelson, F. L., Lieberman, F. V., Binns, W., and Greenwood, D. A.:** Effect of feeding methoxychlor-treated alfalfa hay to dairy cows. *J. Dairy Sci.* 35. 1952, 445-448. — *Chem. Zentralbl.* 124. 1953, 8643.

- Birk, L. A., and Dixon, S. E.:** Studies on the use of DDT and methoxychlor for housefly and hornfly (*Siphona irritans*) control with especial reference to residues in milk. Ontario ent. Soc. Ann. Rpt. 81. 1950/51, 93-102.
- Black, D. J. G., Getty, J., Jameson, H. R., and Pirie, H.:** The effect of continuous ingestion by poultry of benzene hexachloride. (Residues in eggs and meat.) Brit. vet. J., London, 106. 1950, 386-391.
- Bohman, V. R., Chi, I. L. A., Harris, L. E., Binns, W., and Madsen, L. L.:** The effect of DDT upon the digestion and utilization of certain nutrients by dairy calves. J. Dairy Sci. 35. 1952, 6-12.
- Bohmont, D. W.:** Livestock utilization of chemically treated sagebrush rangeland. (Aerial spraying.) Agron. Abstr. 46. 1954, 94.
- Bohmont, D. W., and Slater, I. W.:** Weed flavors in milk destroy quality. Wyoming agric. Coll. Ext. Circ. 153. 1954, 8 p.
- Bondi, A., Olomucki, E., and Calderon, M.:** Problems connected with ethylene dibromide fumigation of cereals. II. Feeding experiments with laying hens. J. Sci. Food, Agric., London, 6. 1955, 600-602. — Bull. signal., Paris, 17. 1956, 997.
- Bryson, M. J., Draper, C. I., Harris, J. R., Biddulph, C., Greenwood, D. A., Harris, L. E., Binns, W., Miner, M. L., and Madsen, L. L.:** DDT in Eiern und Geweben von mit verschiedenen Mengen DDT gefütterten Küken. (Orig. engl.) Advances Chem. Ser. nr. 1. 1950, 232-236. — Chem. Zentralbl. 127. 1956, 11278.
- Burlington, H., and Lindeman, V. F.:** Action of DDT on the blood of the chicken. Proc. fed. amer. Soc. Exp. Biol. Fed. 11. 1952, 20-21.
- Buxtorf, A.:** DDT-Insektizide und Milch. Nachr. bl. dtsh. Pfl. schutzd., Braunschweig, 2. 1950, 9-11. — Chem. Zentralbl. 122. 1951, 1653.
- Carter, R. H., Hubbanks, P. E., Poos, F. W., Moore, L. A., and Ely, R. E.:** The toxaphene and chlordane content of milk from cows receiving these materials in their feed. J. Dairy Sci. 36. 1953, 1172-1177. — Bull. analyt., Paris, 15. 1954, 2582. — Chem. Zentralbl. 125. 1954, 10838.
- Carter, R. H., and Mann, H. D.:** The DDT content of milk from a cow sprayed with DDT. J. econ. Ent. 42. 1949, 708.
- Casida, J. E., Allen, T. C., and Stahmann, M. A.:** Enzymatic and chemical oxidation of dimethyl-phosphoramides to biologically active dimethyl-phosphoramid oxides. Nature, London, 172. 1953, 243-245. — Bull. analyt., Paris, 15. 1954, 1805.
- Casida, J. E., Allen, T. C., and Stahmann, M. A.:** Mammalian conversion of octamethyl pyrophosphoramid to a toxic phosphoramid N-oxide. J. biol. Chem. 210. 1954, 607-616.
- Casida, J. E., and Stahmann, M. A.:** Systemic insecticides: metabolism and mode of action of Schradan. J. agric., Food Chem., Washington, 1. 1953, 883-888.
- Claborn, H. V., Beckman, H. F., and Wells, R. W.:** Contamination of milk from DDT sprays applied to dairy barns. J. econ. Ent. 43. 1950, 723-724.
- Claborn, H. V., Beckman, H. F., and Wells, R. W.:** Excretion of DDT and TDE in milk from cows treated with these insecticides. J. econ. Ent. 43. 1950, 850-852.
- Claborn, H. V., Radeleff, R. D., Beckman, H. F., and Woodard, G. T.:** Pesticide residues. Malathion in milk and fat from sprayed cattle. J. agric., Food Chem., Washington, 4. 1956, 941-942. — Bull. signal., Paris, 18. 1957, 1763.
- Claborn, H. V., and Wells, R. W.:** Methoxychlor, DDT, CS-708 and dieldrin — their rates of excretion in milk. Agric. Chem., Baltimore, 7 (10). 1952, 28-29, 115.
- Cook, J. W.:** In vitro destruction of some organophosphate pesticides by bovine rumen fluid. J. agric., Food Chem., Washington, 5. 1957, 859-863.

- Dahm, P. A., Fountaine, F. C., and Pankas-
kie, J. E.:** The experimental feeding of
parathion to dairy cows. (Analysis of the
milk.) *Science, Lancaster*, 112. 1950, 254
-255.
- Dahm, P. A., and Jacobson, N. L.:** The
effects of feeding demeton (Systox)-treat-
ed alfalfa to dairy cows. *J. Anim. Sci.* 14.
1955, 1199 (Abstr.).
- Dahm, P. A., and Jacobson, N. L.:** Effects
of feeding Systox-treated alfalfa hay to
dairy cows. *J. agric., Food Chem.,*
Washington, 4. 1956, 150-155.
- Dalgaard-Mikkelsen, S.:** Maladies et acci-
dents chez le bétail causés par les insecti-
cides et herbicides utilisés dans la pra-
ctique agricole. *Bull. Off. int. Epiz.* 46.
1956, 232-243.
- Davidow, B., Hagan, E. C., and Radomski,
J. L.:** A metabolite of chlordane in tissues
of animals. *Proc. fed. amer. Soc. exp. Biol.*
Fed. 10(1, Pt. 1). 1951, 291.
- Davidow, B., und Radomski, J. L.:** Abtren-
nung eines Epoxy-Metaboliten aus den
Fettgeweben eines mit Heptachlor gefüt-
terten Hundes. (Orig. engl.) *J. Pharmac.,*
exp. Therap., Baltimore, 107. 1953, 259
bis 265. — *Chem. Zentralbl.* 125. 1954,
3062.
- Davidow, B., Radomski, J. L., and Ely,
R. E.:** Excretion of heptachlor epoxide in
milk of a dairy cow fed heptachlor.
Science, Lancaster, 118. 1953, 383-384. —
Bull. analyt., Paris, 15. 1954, 983.
- Deichmann, W. B., and Rakoczy, R.:** Toxi-
city and mechanism of action of Systox.
A.M.A. Arch. ind. Health 11. 1955, 324-331.
- DeLong, D. M., and Ludwig, P.:** Hazards in-
volved when animals are exposed to orga-
nic insecticidal residues. *J. econ. Ent.* 47.
1954, 1056-1057. — *Bull. analyt., Paris*,
16. 1955, 3181.
- Dewitt, J. B., Derby jr., J. V., and Man-
gan jr., G. F.:** DDT^{vs} wildlife. Relation-
ships between quantities ingested, toxic
effects and tissue storage. *J. amer.*
pharmac. Assoc. (sci. ed.) 44. 1955,
22-24 — *Bull. analyt., Paris*, 16. 1955, 3181.
- Dixon, S. E., and Irvine, O. R.:** Studies
on the use of lindane on dairy cattle and
in the dairy barn with respect to tain-
ting in cheese. *Ontario ent. Soc. Ann.*
Rept. 81(1950). 1951, 102-103.
- Dobson, N.:** Chemical sprays and poultry.
(Effect of spray residues on egg produc-
tion.) *Agriculture, J. Ministr. Agric., Lon-
don*, 61. 1954, 415-418.
- Dormal, S.:** Étude de métabolisme des in-
secticides organophosphorés dans l'orga-
nisme animal. *Arch. belges Méd. soc.,*
*Hyg., Méd. Travail, Méd. légale, Bruxel-
les*, 15. 1957, 61-78.
- Draper, C. I., Biddulph, C., Greenwood,
D. A., Harris, J. R., Binns, W., and Miner,
M. L.:** Concentration of DDT in tissues
of chickens fed varying levels of DDT in
the diet. *Poultry Sci.* 29. 1950, 756.
(Abstr.).
- Draper, C. I., Harris, J. R., Greenwood,
D. A., Biddulph, C., Harris, L. E., Man-
gelson, F., Binns, W., and Miner, M. L.:**
The transfer of DDT from the feed to
eggs and body tissues of White Leghorn
hens. *Poultry Sci.* 31. 1952, 388-393.
- Dubois, K. P., Murphy, S. D., and Thursh,
D. R.:** Toxicity and mechanism of action
of some metabolites of Systox. *Arch. ind.*
Health 13. 1956, 606-612. — *Bull. signal.,*
Paris, 17. 1956, 2649.
- Dybing, O.:** Nyere insekticider, med spe-
sielt hensyn til deres veterinaertoksikolo-
giske betydning. *Nord. Vet.-Med.* 6. 1954,
567-582.
- Eddy, G. W., McGregor, W. S., Hopkins,
D. E., Dreiss, J. M., and Radeleff, R. D.:**
Effects of some insects on the blood and
manure of cattle fed certain chlorinated
hydrocarbon insecticides. *J. econ. Ent.* 47.
1954, 35-38. — *Chem. Zentralbl.* 127.
1956, 1138.
- Ely, R. E., Bell, R. W., Moore, L. A., Mann,
H. D., and Carter, R. H.:** The effect of
lindane on the flavor of milk. *US Bur.*
Dairy Ind. BDIM-Inform. 145. 1952, 3 p.

- Ely, R. E., and Moore, L. A.: Excretion of heptachlor epoxide in the milk of dairy cows fed heptachlor sprayed forage and technical heptachlor. *J. Dairy Sci.* 38. 1955, 669-672. — *Bull. signal., Paris*, 17. 1956, 268.
- Ely, R. E., Moore, L. A., Carter, R. H., and App, B. A.: Excretion of endrin in the milk cows fed endrin-sprayed alfalfa and technical endrin. *J. econ. Ent.* 50. 1957, 348-349.
- Ely, R. E., Moore, L. A., Carter, R. H., Hubanks, P. E., and Poos, F. W.: Excretion of dieldrin in the milk of cows fed dieldrin-sprayed forage and technical dieldrin. *J. Dairy Sci.* 37. 1954, 1461-1465.
- Ely, R. E., Moore, L. A., Carter, R. H., Mann, H. D., and Poos, F. W.: The effect of dosage level and method of administration of DDT on the concentration of DDT in milk. (Abstract of paper at meeting of the American Dairy Science Association, June 20-22, 1950.) *US Bur. Dairy Ind. BDIM-Inform.* 104. 1950, 4 p. — *J. Dairy Sci.* 33. 1950, 386.
- Ely, R. E., Moore, L. A., Carter, R. H., Mann, H. D., and Poos, F. W.: The effect of dosage level and various methods of administration on the concentration of DDT in milk. *J. Dairy Sci.* 35. 1952, 266-271. — *Chem. Zentralbl.* 125. 1954, 442.
- Ely, R. E., Moore, L. A., Carter, R. H., and Poos, F. W.: The DDT, toxaphene and chlordane content of milk as affected by feeding alfalfa sprayed with these insecticides. *US Bur. Dairy Ind. BDIM-Inform.* 85. 1949, 4 p.
- Ely, R. E., Moore, L. A., Hubanks, P. E., Carter, R. H., and Poos, F. W.: Excretion of heptachlor epoxide in the milk of dairy cows fed heptachlor-sprayed forage and technical heptachlor. *J. Dairy Sci.* 38. 1955, 669-672. — *Bull. signal., Paris*, 17. 1956, 268.
- Ely, R. E., Moore, L. A., Hubanks, P. E., Carter, R. H., and Poos, F. W.: Results of feeding methoxychlor sprayed forage and crystalline methoxychlor to dairy cows. *J. Dairy Sci.* 36. 1953, 309-314. — *Chem. Zentralbl.* 125. 1954, 217.
- Ely, R. E., Moore, L. A., Hubanks, P. E., Carter, R. H., and Poos, F. W.: Studies of feeding aldrin to dairy cows. (Residues in milk.) *J. Dairy Sci.* 36. 1953, 584 (Abstr.).
- Ely, R. E., Moore, L. A., Hubanks, P. E., Carter, R. H., and Poos, F. W.: Studies of feeding aldrin to dairy cows. (Toxicity and residues in milk.) *J. Dairy Sci.* 37. 1954, 294-298. — *Chem. Zentralbl.* 126. 1955, 3426.
- Ely, R. E., Moore, L. A., Mann, H. D., and Carter, R. H.: The effect of various dosage levels of crystalline lindane on the concentration of lindane in cow's milk. *J. Dairy Sci.* 35. 1952, 733-737. — *Chem. Zentralbl.* 124. 1953, 4785.
- Ely, R. E., Underwood, P. C., Moore, L. A., Mann, H. D., and Carter, R. H.: Observations on lindane poisoning in dairy animals. *J. amer. vet. med. Assoc.* 123. 1953, 448-449.
- Evans, R. J., Bandemer, S. L., Libby, D. A., and Groschke, A. C.: The arsenic content of eggs from hens fed arsenic acid. *Poultry Sci.* 32. 1953, 743-744.
- Fahey, J. E., Brindley, T. A., and Spear, M. L.: DDT residues in fat from steers pastured on corn stover in DDT-treated fields. *J. econ. Ent.* 48. 1955, 606-607. — *Bull. signal., Paris*, 17. 1956, 1845.
- Fertig, S. N.: Livestock poisoning from herbicide treated vegetation. *Proc. north east. Weed Control Conf.* 6. 1952, 13-19.
- Fjeldalen, J.: DDT und andere chlorierte Kohlenwasserstoffe in Verbindung mit Milch. (Orig. norw.) *Norsk Landbruk*, Oslo, 16. 1950, 296-298.

- Flückiger, E.:** Der Einfluß der Anwendung von Erpan zur Unkrautbekämpfung auf Weiden auf den Geruch und Geschmack der Milch. Landw. Jahrb. Schweiz 69 (NF 4). 1955, 357-364. — Chem. Zentralbl. 127. 1956, 6263.
- Fontaine, F. C., and Dahm, P. A.:** Parathion-treated roughage safe. Inquiry into toxicity to cattle and humans. Hoard's Dairyman 96. 1951, 442.
- Frear, D.E.H., Bruce, W. N., and Ragsdale, A. C.:** DDT in milk following barn spraying. J. econ. Ent. 43. 1950, 656-657.
- Furman, D. P., and Bankowski, R. A.:** Absorption of benzene hexachloride in poultry. J. econ. Ent. 42. 1949, 980-982.
- Gardiner, J. E., and Kilby, B. A.:** Biochemistry of organic phosphorus insecticides. I. The mammalian metabolism of bis (dimethylamino) phosphonous anhydride, (Schradan) Biochem. J., Cambridge, 51. 1952, 78-85.
- Geissler, H.:** Über Schäden im Anschluß an die Verwendung von Hexachlorcyclohexanpräparaten und über die Vermeidung solcher Schäden. Dtsch. tierärztl. Wochenschr. 58. 1951, 97-98.
- Genelly, R. E., and Rudd, R. L.:** Chronic toxicity of DDT, toxaphene, and dieldrin to ring-necked pheasants. Calif. Fish, Game, Sacramento, 42. 1956, 5-14.
- Gjullin, C. M., Seudder, H. I., and Erwin, W. R.:** Determination of malathion and its influence on flavor of milk from cows fed malathion sprayed alfalfa. J. agric., Food Chem., Washington, 3. 1955, 508-509.
- Gladenko, I. N.:** Fleisch, Fett und Milch von Tieren, denen Hexachlorcyclohexan oder damit besprühtes Futter gegeben wurde. (Orig. russ.) Veterinariia 31(7). 1954, 52-54.
- Gladenko, I. N.:** The meat, fat and milk of animals receiving hexachlorane or feed treated with it. (Orig. russ.) Veterinariia 31(7). 1954, 24-29.
- Gladenko, I. N.:** Organoleptic and toxic properties of meat, fat and milk of animals receiving fodder treated with hexachlorane. (Orig. russ.) Gigiena 3. 1954, 39-44.
- Gladenko, I. N.:** Über das Schicksal des Benzolhexachlorids im tierischen Organismus. (Orig. russ.) Trudy Inst. Eksper. Vet. Nauch (Ukrain.) 22. 1955, 283-289.
- Gladenko, I. N., und Fortushnyi, V. A.:** Giftigkeit von Futter von mit Hexachlorcyclohexan behandelten Pflanzen. (Orig. russ.) Veterinariia 31(3). 1954, 59-63.
- Godfrey, G. F., Howell, D. E., and Graybill, F.:** Effect of lindane on egg production. Poultry Sci. 32. 1953, 183-184.
- Gratzl, E.:** Bemerkungen zu Berger, J., „Futtervergiftung bei Kühen anlässlich einer Maikäferbekämpfung mit Hexachlorcyclohexan?“ Wiener tierärztl. Monatschr. 38. 1951, 597-598.
- Greenwood, D. A., Harris, L. E., Biddulph, C., Bateman, G. Q., Binns, W., Miner, M. L., Harris, J. R., Mangelson, F., and Madsen, L. L.:** Feeding rats tissues from lambs and butterfat from cows that consumed DDT-dusted alfalfa hay. Proc. Soc. exp. Biol., Med., New York, 83. 1953, 458-460.
- Grigsby, B. H., and Farwell, E. D.:** Some effects of herbicides on pasture and on grazing livestock. Michigan agric. Exp. Stat. Quart. Bull. 32. 1950, 378-385.
- Guilhon, J.:** Intoxication des animaux domestiques par les insecticides. Rev. Path. Gén., Compar. 55. 1955, 1186-1203.
- Gunderson, H.:** The effect on domestic animals of insecticides and weed killers. Iowa Vet. 21(4). 1950, 7-11, 22, 24.
- Hannken, P. B.:** Experiments with „Gam-mexane“ in the control of lice on poultry and their bearing on the problem of vitamin D intake. Nature, London, 165. 1950, 451. — Chem. Zentralbl. 122. 1951, 2953.

- Harris, L. E., Draper, C. I., Harris, J. R., and Greenwood, D. A.:** Effect of feeding DDT-dusted alfalfa hay to swine and poultry. *Agric. Chem.*, Baltimore, 6 (4). 1951, 97.
- Harris, L. E., Harris, J. R., Mangelson, F. L., Greenwood, D. A., Biddulph, C., Binns, W., and Miner, M. L.:** Effect of feeding DDT-treated alfalfa hay to swine and of feeding the swine tissues to rats. *J. Nutrition*, Baltimore, 51. 1953, 491-505.
- Harris, L. E., Myint, T., Biddulph, C., Greenwood, D. A., Binns, W., Miner, M. L., and Madsen, L. L.:** Effect of feeding DDT dusted alfalfa hay to fattening lambs. *J. Animal Sci.* 10. 1951, 581-591. — *Chem. Zentralbl.* 123. 1952, 3210.
- Harris, J. R., Stoddard, G. E., Bateman, G. Q., Legrande Shupe, J., Greenwood, D. A., Harris, L. E., Bahler, T. E., and Liebermann, F. V.:** Effects of feeding dieldrin- and heptachlor-treated alfalfa hay to dairy cows. *J. agric., Food Chem.*, Washington, 4. 1956, 694-696.
- Havermann, H., und Wachter, J.:** Die Einwirkung von Schädlingsbekämpfungsmitteln auf die Leistungsfähigkeit der Hühner. *Rhein. Monatsschr. Gemüse-, Obst-, Gartenbau* 40. 1952, 26-28.
- Hazleton, L. W., and Holland, E. G.:** Toxicity of malathion; summary of mammalian investigations. *Arch. ind. Hyg. occup. Med.*, Baltimore, 8. 1953, 399-405.
- Hazleton, L. W., Kundzins, W., and Bruce, R. B.:** Pesticide safety evaluation. Mammalian investigations on p-chlorophenyl phenyl sulfone (Sulphenone). *J. agric., Food Chem.*, Washington, 3. 1955, 836-841. — *Bull. signal.*, Paris, 17. 1956, 1268.
- Heuser, G. F.:** Feeding chemically-treated seed grains to hens. *Poultry Sci.* 35. 1956, 160-162.
- Hofmann, D., and Siedeck, H.:** Distribution and fate of Schradan (bis-dimethylamino-phosphonous anhydride) in mammals, using a radioactive compound. *Arch. int. Pharmacod.*, Therapie 89. 1952, 74.
- Howard, J. W., and Hanzal, R. F.:** Pesticide toxicity. Chronic toxicity for rats of food treated with hydrogen cyanide. *J. agric., Food Chem.*, Washington, 3. 1955, 325-329.
- Jensen, R. G., and Merilan, C. P.:** The effect of herbicides on in vitro cellulose digestion by rumen microorganisms. *J. Dairy Sci.* 38. 1955, 625. (Abstr.).
- Johnson, E. L., Waibel, P. E., and Pommeroy, B. S.:** The toxicity of Arasan-treated corn to hens and chicks. *Proc. amer. Vet. Med. Assoc.* 92. 1955, 322-323.
- Kastli, P.:** Die Ausscheidung von toxisch wirkenden Stoffen durch die Milchdrüse mit besonderer Berücksichtigung der Insektizide. *Schweiz. Arch. Tierheilkunde* 95. 1953, 171-187.
- Kemp, J. D., Bull, S., and Terrill, S. W.:** The effect of three formulations of benzene hexachloride on the flavor of pork. *J. Animal Science* 11. 1952, 491-495.
- Kennedy, W. K., and Schenk, R. U.:** Fungicides for the preservation of moist hay. *Agron. J.*, Washington, 46. 1954, 252-257.
- Kirsch, W., und Schwarz, G.:** Untersuchungen über den Einfluß von Nexit auf Geruch und Geschmack der Milch. *Kieler milchwirtsch.Forsch.ber.* 2. 1950, 123-125. — *Chem. Zentralbl.* 125. 1954, 2476.
- Kjellander, E.:** DDT und die Milch. (Orig. schwed.) *Lantmannen* 33. 1949, 759-760.
- Klimmer, O. R.:** Experimentelle Untersuchungen über die Toxikologie insektizider chlorierter Kohlenwasserstoffe. *Arch. exp. Path., Pharmacol.*, Leipzig, 227. 1955, 181-195.
- Knipling, E. F.:** DDT and related insecticides in milk. *J. Milk, Food Technol.*, Albany (N. Y.), 13. 1950, 283-287. — *Certified Milk* 25 (10). 1950, 14-15, 18-19.
- Knipling, E. F.:** The greater hazard-insects or insecticides. *Certif. Milk*, Scranton (Pennsylv.), 28 (6). 1953, 919.

- Kratzer, F. H., Williams, D. E., Hinreiner, E., and Simone, M.:** The effect of petroleum-base herbicides on growth and carcass flavor in chickens. *Poultry Sci.* 32. 1953, 567-569.
- Kunze, F. M., and Laug, E. P.:** Toxicants in tissues of rats on diets containing dieldrin, aldrin, endrin and isodrin. *Proc. fed. amer. Soc. exp. Biol. Fed.* 12. (1, Pt. 1). 1953, 339.
- Leighton, R. E., Kuiken, K. A., and Smith, H. A.:** Effects of toxaphene on dairy cows. *J. Dairy Sci.* 35. 1952, 214-218. — *Texas agric. Exp. Stat. Progr. Rept.* 1409. 1951, p. 5 — *Chem. Zentralbl.* 124. 1953, 4409.
- Leonard, R. O., and Burns, R. H.:** Selenized wool: Preliminary study. (After grazing of sheep on seleniferous pasture.) *J. Animal Sci.* 14. 1955, 446-457.
- Link, R. P., Smith, J. C., and Morrill, C. C.:** Toxicity studies on captan-treated corn in pigs and chickens. *J. amer. vet.-med. Assoc.* 128. 1956, 614-616. — *Bull. signal., Paris*, 18. 1957, 411.
- Lüdicke, M.:** Über die Aufnahme radioaktiver Kontaktinsektizide bei Pflanzen und Tieren. *Nachr.bl. dtsh. Pfl.schutzd., Braunschweig*, 6. 1954, 122-124. — *Angew. Chem.* 66. 1954, 109-110.
- McDowall, F. H., Patchell, M. R., Hurst, F., and Kelsey, J. M.:** Effect of treatment of dairy pastures with BHC and DDT on the flavour and composition of milk, cream and butter. *New Zealand J. Sci., Technol. A* 37. 1955, 146-155. — *Bull. signal., Paris*, 17. 1956, 997.
- McGirr, J. L.:** Poisoning of livestock by the newer rodenticides, insecticides and weed killers. *Proc. int. Vet. Congr.* 15 (1). 1953, 479-484.
- Mann, H. D., Carter, R. H., and Ely, R. E.:** The DDT content of milk products. *J. Milk, Food Technol., Albany (N.Y.)*, 13. 1950, 340-341.
- Marcenac, M. N.:** Du danger des insecticides organiques de synthèse pour les mammifères domestiques. *Compt. rend. Acad. Agric. France* 37. 1951, 171-174.
- March, R. B., Fukuto, T. R., Metcalf, R. L., and Maxon, M. G.:** Fate of P 32-labelled malathion in the laying hen, white mouse, and American cockroach (*Periplaneta americana*). *J. econ. Ent.* 49. 1956, 185-195.
- Martin, W. C.:** DDT content in human fat. *J. appl. Nutrit.* 7. 1954, 307-308.
- Metcalf, R. L.:** Organic insecticides; their chemistry and mode of action. Interscience, New York, 1955. 392 p.
- Millian, S. J., and Weiser, H. H.:** The influence of DDT wettable powder on the methylene blue reduction test in milk. *J. Milk, Food Technol., Albany (N. Y.)*, 16. 1953, 4-5, 8.
- Milne, F. N. J.:** The effect of benzene hexachloride in poultry feed on meat and egg quality. *Queensland J. agric. Sci.* 10. 1953, 214-221.
- Nazarenko, I. K.:** Viehvergiftungen durch Zuckerrüben, die mit HCH bestäubt wurden. (Orig. russ.) *Veterinariia* 29 (9). 1952, 44.
- Neugschwendtner, S.:** Auswirkung der Anwendung chemischer Bekämpfungsmittel für Unkraut, landwirtschaftlich schädliche Insekten und Pilze auf die Qualität der Milch und Milcherzeugnisse. *Österr. Milchwirtsch.* 8. 1953, 297-298.
- O'Brien, R. D.:** The effect of malathion and its isomer on carbohydrate metabolism of the mouse, cockroach and house fly. *J. econ. Ent.* 50. 1957, 79-84. — *Bull. signal., Paris*, 18. 1957, 2573.
- Olomucki, E.:** Action of ethylene dibromide on hen gonadotrophic hormones. *Nature, London*, 180. 1957, 1358-1359.
- Olomucki, E., and Bondi, A.:** Problems connected with ethylene dibromide fumigation of cereals. II. Feeding experiments with laying hens. *J. Sci. Food., Agric., London*, 6. 1955, 592-600.
- Pankaskie, J. E., Fontaine, F. C., and Dahm, P. A.:** The degradation and detoxication of parathion in dairy cows. *J. econ. Ent.* 45. 1952, 51-60.

- Petunin, F. A., Manzhos, M. D., und Ponomarewa, N. L.:** Bestimmung der Giftigkeit von Futtermitteln, die mit DDT-Staub behandelt wurden (durch Verfütterung an Tiere). (Orig. russ.) Veterinaria 28(10). 1951, 29-32.
- Petunin, F. A., Manzhos, M. D., und Ponomarewa, N. L.:** Untersuchungen der Giftigkeit von Futtermitteln, die mit DDT bestäubt sind. (Orig. russ.) Tierheilkunde 27(10). 1950, 36-37. — Chem. Zentralbl. 122. 1951, 3410.
- Radeleff, R. D.:** Effects of various levels of lindane in the feed of beef cattle. Vet. Med., Chicago, 46. 1951, 105-106, 119.
- Radeleff, R. D., Claborn, H. V., Beckman, H. F., Wells, R. W., and Bushland, R. C.:** Toxaphene residues in fat of sprayed cattle. Vet. Med., Chicago, 46. 1951, 305-308.
- Radeleff, R. D., and Woodard, G. T.:** The toxicity of organic phosphorus insecticides to livestock. J. amer. Vet. med. Assoc. 130. (5, Pt. 1). 1957, 215-216.
- Robbins, W. E., Hopkins, T. L., and Eddy, G. W.:** Metabolism and excretion of phosphorus-32-labeled Diazinon in a cow. J. agric., Food Chem., Washington, 5. 1957, 509-513.
- Rowe, V. K., Hollingsworth, R. L., and McCollister, D. D.:** Pesticide toxicity: Toxicity study of a grain fumigant (Dowfume EB-5). J. agric., Food Chem., Washington, 2. 1954, 1318-1323.
- Rowe, V. K., and Hymans, T. A.:** Summary of toxicological information on 2,4-D and 2, 4, 5-T type herbicides and an evaluation of the hazards to livestock associated with their use. Amer. J. vet. Res., Chicago, 15. 1954, 622-629.
- Sherman, M., and Rosenberg, M. M.:** Subchronic toxicity of four chlorinated dimethanonaphthalene insecticides to chicks. J. econ. Ent. 47. 1954, 1082-1083.
- Sprehn, C., und Loliger, H. C.:** Über die toxische Wirkung des mit Aldrin gebeizten Getreides auf Hühner. Dtsch. tierärztl. Wochenschr. 68. 1955, 298-300.
- Stahmann, M. A., Casida, J. E., and Allen, T. C.:** Enzymatic and chemical oxidation of phosphoramides to biologically active phosphoramidate oxides. Proc. fed. amer. Soc. exp. Biol. Fed. 12. (1, Pt. 1). 1953, 273.
- Steinegger, P., und Berger, R.:** Untersuchungen über die toxische Wirkung von Winterspritzmittel Ciba auf Leghornhennen unter besonderer Berücksichtigung der Beeinflussung der Legetätigkeit. Geflügelhof 18. 1955, 363-364. — Schweiz. Ztschr. Obst-, Weinbau 64. 1955, 259-262.
- Steinegger, P., und Rescheleit, C.:** Untersuchungen über die toxische Wirkung von Obstbaumspritzmitteln der Firma Geigy A. G., Basel, auf die Legetätigkeit bei Leghornhennen. Geflügelhof 17. 1954, 627-628.
- Steiner, P.:** Über die Toxizität von DDT. (Kein Anlaß zur Befürchtung, daß die Milchversorgung durch DDT-Verunreinigungen gefährdet sei.) Nachr.bl. dtsh. Pfl.schutzd., Braunschweig, 2. 1950, 11. — Chem. Zentralbl. 122. 1951, 1217.
- Stoddard, G. E., Bateman, G. Q., Biddulph, C., Schupe, I. L., Harris, J. R., Lieberman, F. V., Greenwood, D. A., and Harris, L. E.:** Effects of feeding chlordane — and aldrin — treated alfalfa hay to lactating dairy cows. (Residues in milk.) Proc. amer. Dairy Sci. Assoc. West. Div. 34. 1953, 15-18.
- Stoddard, G. E., Bateman, G. Q., Schupe, J. L., Harris, J. R., Bahler, T. H., Harris, L. E., and Greenwood, D. A.:** Effects of feeding dieldrin- and heptachlor-treated alfalfa hay to dairy cows — a progress report. Proc. amer. Dairy Sci. Assoc. West. Div. 35. 1954, 295-300.

- Swanson, M. H., Waibel, P. E., Helbacka, N. V., and Johnson, L. E.:** The effects of Arasan on shell egg quality. *Poultry Sci.* 34. 1955, 1223-1224. (Abstr.).
- Swanson, M. H., Waibel, P. E., Helbacka, N. V., and Johnson, E. L.:** Shell egg quality as affected by Arasan in the diet. *Poultry Sci.* 35. 1956, 92-95.
- Sykes, J. F., and Klein, A. K.:** Fumigant residue-in-milk study: Chloro-organic residues in milk of cows orally administered ethylene dichloride. *J. Assoc. off. agric. Chemists, Washington*, 40. 1957, 203-206.
- Taylor, H.:** Toxicity of insecticides to mammals and its evaluation. *Proc. II. int. Congr. Crop Prot.* 1949, 428-432.
- Thamm, H.:** Die Giftwirkung der Kontaktinsektizide auf Haustiere. *Monatsh. Vet.-Med., Leipzig*, 11. 1956, 293-297.
- Thomas, J. W., Hubanks, P. E., Carter, R. H., and Moore, L. A.:** Feeding DDT and alfalfa sprayed with DDT to calves. *J. Dairy Sci.* 34. 1951, 203-208. — *Chem. Zentralbl.* 121. 1951, 3388.
- Van Asperen, K., and Oppenoorth, F. J.:** Metabolism of γ -benzene hexachloride in the animal body. *Nature, London*, 173. 1954, 1000.
- Verne, J., and Wegmann, R.:** Action du DDD ou rothane sur les surrénales. *Compt. rend. Soc. Biol., Paris*, 146. 1952, 1044-1046.
- Volcani, R., Roderig, C., and Olomucki, E.:** The effect of ethylene dibromide fumigated grain on cattle. (Orig. hebr.) *Re-fuah Vet., Jerusalem*, 12. 1955, 70-75 (Engl. Zusammenfassung p. 103-104).
- Vorhes, F. A.:** Pesticide residues in milk. *J. agric., Food Chem., Washington*, 5. 1957, 906-908.
- Vuillaume, R.:** Maladies et accidents chez le bétail causés par diverses substances utilisées dans la pratique agricole. *Bull. Off. int. Epizooties France* 46. 1956, 258-272. — *Bull. signal., Paris*, 18. 1957, 677.
- Waibel, P. E., Johnson, E. L., and Pomeroy, B. S.:** The effect of tetramethylthiuram disulfide (Arasan) on chicks and poults. *Poultry Sci.* 34. 1955, 226.
- Waibel, P. E., Pomeroy, B. S., and Johnson, E. L.:** Effect of Arasan-treated corn on laying hens. *Science, Lancaster*, 121. 1955, 401-402.
- West, H. D., Lawson, J. R., Miller, I. H., and Mathura, G. R.:** Das Schicksal des Diphenyls in der Ratte. *Arch. Biochem., Biophysics* 60. 1956, 14-20. — *Chem. Zentralbl.* 128. 1957, 5919.
- Wilbur, C. G., and Morrison, R. A.:** The physiological action of parathion in goats. Toxicity, and effects on reproduction and milk production. *Amer. J. vet. Res., Chicago*, 16. 1955, 308-313.
- Wilbur, D. A.:** Effects of insecticidal dusts containing piperonyl butoxide and pyrethrins applied to wheat on the flavor of eggs. *J. econ. Ent.* 45. 1952, 899.
- Winteringham, F. P. W., and Barnes, J. M.:** Vergleich der Reaktionen von Insekten und Säugetieren auf bestimmte, als Insektizide verwendete halogenierte Kohlenwasserstoffe. *Physiol. Rev., Baltimore*, 35. 1955, 701-739. — *Chem. Zentralbl.* 127. 1956, 7295.
- Insecticide residues in milk.** *Agric. Chem., Baltimore*, 11 (10). 1956, 85.
- Pesticide residues in meats.** *J. agric., Food Chem., Washington*, 5. 1957, 241.
- Shell Chemical Corporation, Agricultural Chemicals Div.:** The effects of aldrin or dieldrin on cattle and other animals. *Denver* 1954, 3 p.
- US Bureau of Entomology and Plant Quarantine:** Studies on lindane residues in milk when applied in dairy barns and on dairy cows. *US Bur. Ent., Plant Quar., Washington*, E-800. 1950, 4 p.

C) Angaben über Einwirkung von Rückständen auf Pflanzen, wie Aufnahme, Transport, Metabolismus, biochemische Änderungen in der Pflanze.

- Abbott, D. L.:** 2,4,5-trichlorophenoxypropionic acid (TP) as a fruit-ripening agent. I. Apple var. Worcester Pearmain. Ann. Rept. agric., hortic. Res. Stat., Long Ashton 1953, 53-57.
- Ahmed, M. K., Newsom, L. D., Roussel, J. S., and Emerson, R. B.:** Translocation of Systox in the cotton plant. J. econ. Ent. 47. 1954, 684-691.
- Akers, T. J., and Fang, S. C.:** Studies in plant metabolism. VI. Effect of 2,4-D on the metabolism of aspartic acid and glutamic acid in the bean plant. Plant Physiol., Lancaster, 31. 1956, 34-37.
- Allen, F. W.:** Influence of growth regulator sprays on the growth, respiration, and ripening of Bartlett pears. Proc. amer. Soc. hortic. Sci. 62. 1953, 279-298.
- Allen, N., Bondy, F. F., Bullock, J. F., and Hall, E. E.:** Effect of soil treatments with DDT, benzene hexachloride and toxaphene on tobacco, cotton and cowpeas. US Dept. Agric. Techn. Bull. 1047. 1951, 22 p.
- Allen, T. C., and Casida, J. E.:** Absorption and translocation of insecticides in plants. Proc. amer. Assoc. econ. Entomologists, North Centr. States Br. 7. 1952, 6-7.
- Andreae, W. A.:** The effect of maleic hydrazide on indoleacetic acid oxidase activity and growth. Congr. int. Bot. Rapp., Commun. 8 (Sect. 11/12). 1954, 151.
- Arnaud, J., Barge, P., Richez, M., and Gautheret, R. J.:** Action of maleic hydrazide on the metabolism of sugars by the leaves of tobacco. Compt. rend. Acad. Agric. France 42. 1956, 168-171.
- Arthur, B. W.:** Effects of certain systemic insecticides on peanut insects and peanuts. Proc. Assoc. south. agric. Workers 50. 1953, 109.
- Arthur, B. W.:** Effect of systemic insecticides upon certain peanut insects and upon peanuts. Alabama polytechn. Inst., Grad. School, Theses, 49 (4). 1954, 82.
- Ashton, F. M.:** Absorption and translocation of radioactive 2,4-D. Plant Physiol., Lancaster, 32. 1957, X-XI (Suppl.).
- Audus, L. J., and Thresh, R.:** The effects of synthetic growth-regulator treatments on the levels of free endogenous growth-substances in plants. Ann. Bot. (n. s.) 20. 1956, 439-459.
- Audus, L. J., and Thresh, R.:** The effects of synthetic growth substances in the level of endogenous auxine in plants: In: **Wain, R. L., and Wightman, F.:** The chemistry and mode of action of plant growth substances. (Butterworths sci. Publ., London 1956), p. 248-252.
- Baldwin, R. E., Freed, V. H., and Fang, S. C.:** Absorption and translocation of carbon-14-applied as O-isopropyl-N-phenyl carbamate in Avena and Zea. J. agric., Food Chem., Washington, 2. 1954, 428-430. — Chem. Zentralbl. 126. 1955, 5880.
- Ball, N. G., and Dyke, I. J.:** The effects of indole-3-acetic acid and 2,4-dichlorophenoxyacetic acid on the growth rate and endogenous rhythm of intact Avena coleoptiles. J. exp. Bot. 7(19). 1956, 25-41.
- Banham, F. L., and Finlayson, D. G.:** The effect of certain insecticides on the germination and growth of onions. I. Insecticides applied to the soil. II. Insecticides applied to the seed. Proc. ent. Soc. brit. Columbia 48. 1952, 67-76.

- Barnes, W. N., and Sagar, P.:** The effect of the γ - and δ -isomers of hexachlorocyclohexane on the growth, fermentation and respiration of three species of yeast. *J. gen. Microbiol.* 10. 1954, 475-481.
- Barrier, G. E., and Loomis, W. E.:** Absorption and translocation of 2,4-dichlorophenoxyacetic acid and P 32 by leaves. *Plant Physiol., Lancaster*, 32. 1957, 225-231.
- Barrier, G. E., and Loomis, W. E.:** The translocation of herbicides. *Proc. North Centr. Weed Control Conf.* 12. 1955, 5.
- Barrons, K. C.:** Some physiological aspects of the herbicidal action of DNOSBP. (Dinitro-*o*-sec-butylphenol.) *Down to Earth, Midland (Michigan)*, 7 (3). 1951, 10-12.
- Bartholomew, E. T., Carman, G. E., and Stewart, W. S.:** Invisible injury of citrus; Insecticide tests indicate that oil sprays lower soluble solids in juice and reduce dry matter in leaves. *Calif. Agric., Berkeley* 5 (10). 1951, 5. — *Chem. Zentralbl.* 127. 1956, 1424.
- Bartholomew, T. E., Stewart, W. S., and Carman, G. E.:** Some physiological effects of insecticides on citrus fruits and leaves. *Bot. Gaz., Chicago*, 112. 1951, 501-510. — *Chem. Zentralbl.* 126. 1955, 7240.
- Batt, R. F., Bennett, S. H., and Thomas, W. D. E.:** The absorption, translocation and breakdown of Schradan applied to leaves, using ^{32}P -labelled material. *Ann. appl. Biol.* 41. 1954, 475-483, 484-500, 501-519. — *Bull. analyt., Paris*, 16. 1955, 937.
- Bennett, S. H., and Thomas, W. D. E.:** Experiments on the absorption and fate of a systemic insecticide bis (bis dimethyl-amino phosphonous) anhydride $[(\text{CH}_3)_2\text{N}]_2\text{PO-O-PO}[(\text{CH}_3)_2\text{N}]_2$ in plants. (Schradan.) *Trans. IX. int. Congr. Ent.* vol. 1 (1951). 1952, 981-986.
- Berg, R. T., and McElroy, L. W.:** Effect of 2, 4-D on the nitrate content of forage crops and weeds. *Canad. J. agric. Sci., Ottawa*, 33 (4). 1953, 354-358.
- Bertossi, F.:** Wirkungen von Insektiziden auf Basis von Chlordan (Octachlor) auf Tabakpflanzen. (Orig. ital.) *Tabacco*, Roma, 56. 1952, 62-64. — *Chem. Zentralbl.* 124. 1952, 5562.
- Bhatt, J. G.:** Observations on the changes in morphological characters of the cotton plant by 2, 4-D. *Indian Cotton Grow. Rev.* 11 (3). 1957, 233-235.
- Bhattacharyya, S. S., und Linskens, H. F.:** Über den Einfluß von „Systox“, „Metasystox“ und „Pestox“ auf die Kerne und Chromosomen von *Vicia faba*. *Phytopath. Ztschr.* 25. 1955, 233-248.
- Blanchard, F. A.:** Uptake, distribution and metabolism of carbon-14 labelled trichloroacetate in corn and pea plants. *Weeds* 3. 1954, 274-278.
- Blommaert, K. L. J.:** Effect of growth-substance sprays on ripening of peaches. Tests with 2, 4, 5-trichlorophenoxyacetic acid (2, 4, 5-T) on Early Dann, Peregrine and Elbertas. *Farming South Afr.* 28. 1953, 207-209. — *Food Sci. Abstr.* 26. 1954, 183.
- Blouch, R., Payne, M. G., and Fults, J. L.:** Free amino acids in sugar-beet leaves altered by zinc dimethyldithiocarbamate. *Bot. Gaz., Chicago*, 114. 1952, 248-251. — *Chem. Zentralbl.* 126. 1956, 1424.
- Bonde, R., and Covell, M.:** Effects of spray treatments on yieldrate and specific gravity of potatoes. *Amer. Potato J.* 32. 1955, 399-406.
- Borzini, G.:** Observations concerning the influence on grape physiology of sulfur preparations associated with basic mixtures of zinc-ethylene-bis(dithiocarbamate) in control of downy mildew. (Orig. ital.) *Not. Mal. Piante* nr. 35-36. 1956, 113-116.
- Bowman, J. S., and Casida, J. E.:** Plant metabolism of insecticides: metabolism of the systemic insecticide O, O-diethyl S-ethylthiomethyl phosphorodithioate (Thimet) in plants. *J. agric., Food Chem., Washington*, 5. 1957, 192-197.

- Boyle, F. P.:** The physiology and chemistry of 2,4-dichlorophenoxyacetic acid action on resistant and nonresistant plants. Congr. int. Bot. Rapp., Commun. 8 (Sect. 11/12). 1954, 184-185.
- Bradbury, D., and Ennis, W. B.:** Histological abnormalities of tubers formed on Irish Cobbler potato plants sprayed with butyl 2,4,5-trichlorophenoxyacetate. Amer. J. Bot. 40. 1953, 827-834.
- Bradbury, F. R., and Whitaker, W. O.:** The systemic action of benzene hexachloride in plants: quantitative measurements. J. Sci. Food, Agr., London, 7. 1956, 248-253.
- Bradley, M. V., and Crane, J. C.:** Effect of 2,4,5-trichlorophenoxyacetic acid on cell and nuclear size and endopolyploidy in parenchyma of apricot fruits. Amer. J. Bot. 42. 1955, 273-281.
- Bragg, K. K.:** The effect of 2,4-D on the morphology and yield of potatoes. Proc. Canada nat. Weed Comm., east. Sect., 4. 1951, 91-97.
- Bravo, A. R.:** Efectividad del lindano como agente inductor del poliploidismo en centeno. Acta Agron., Palmira, 6. 1956, 143-147. — Agric. trop. (Columbia) 11. 1955, 561.
- Bridges, R. G.:** The fate of labelled insecticide residues in food products. III. N-methylation as a result of fumigating wheat with methyl bromide. J. Sci. Food, Agric., London, 6. 1955, 261-268. — Bull. analyt., Paris, 16. 1955, 4476.
- Bridges, R. G.:** The fate of labelled insecticide residues in food products. V. The nature and significance of ethylene dibromide residues in fumigated wheat. J. Sci. Food, Agric., London, 7. 1956, 305-313.
- Bruhlin, A., und Wanner, A.:** Über die Wirkung von Insektiziden auf die Mitose von Pflanzen. Phytopath. Ztschr. 22. 1954, 327-342.
- Busse, M., und Kandler, O.:** Über die Wirkungen der β -Indolyllessigsäure auf den Stoffwechsel von Avenakoleoptilen. Planta 46. 1956, 619-642.
- Callaghan, J. J., and van Norman, R. W.:** Effect of foliar sprays of maleic hydrazide on photosynthesis. Science, Lancaster, 123. 1956, 894-895.
- Capozzi, A.:** Wirkung von o-Isopropyl-N-phenylcarbammat und γ -Hexachlorcyclohexan auf das Gewebe von Mohrrüben, die „in vitro“ gewachsen sind. (Orig. ital., engl. Zusammenfassung.) Atti Ist. bot. Univ., Pavia, 8 (ser. 5). 1950, 177-180.
- Charlier, A.:** The influence of growth substances on water absorption and cell wall growth in potato tissue. Mém. Inst. agron. Univ. Louvain 10. 1954, 53 p.
- Carlson, J. B.:** Cytohistological responses of plant meristems to maleic hydrazide. Iowa State Coll. J. Sci. 29. 1954, 105-128.
- Carman, G. E., Ewart, W. H., Barnes, M. M., and Gunther, F. A.:** Absorption of DDT and parathion by fruits. Advances Chem. Ser. 1. 1950, 128-136.
- Carman, G. E., Gunther, F. A., Blinn, R. C., and Garmus, R. D.:** The physical fate of parathion applied to citrus. J. econ. Ent. 45. 1952, 767-777.
- Casida, J. E., and Allen, T. C.:** Absorption and translocation of insecticides by plants. Agric. Chem., Baltimore, 7 (6). 1952, 41-43.
- Casida, J. E., Chapman, R. K., and Allen, T. C.:** Relation of absorption and metabolism of octamethylpyrophosphoramidate by pea plants to available phosphorus. J. econ. Ent. 45. 1952, 568-578.
- Casida, J. E., Chapman, R. K., Stahmann, M. A., and Allen, T. C.:** Metabolism of Schradan by plants and insects to a toxic phosphoramidate oxide. J. econ. Ent. 47. 1954, 64-71.
- Chacravarti, A. S., Srivastava, D. P., and Khanna, K. L.:** Foliar application of 2,4-D to increase sugar in cane. Indian Sugar (Calcutta) 5. 1955, 171, 173-174.

- Chacravarti, A. S., Srivastava, D. P., and Khanna, K. L.:** Use of synthetic hormone to step up sugar in cane. (2,4-D.) *Curr. Sci., Bangalore*, 24. 1955, 316-317.
- Chard, J. R., Francis, F. J., and Graham, T. O.:** The effect of chemical defoliation on the quality of canned tomatoes. *Food Technol., London*, 8. 1954, 95-96.
- Christoph, R. J., and Fish, E. L.:** Responses of plants to the herbicide 3-(p-chlorophenyl)-1,1-dimethylurea (CMU). *Bot. Gaz., Chicago*, 116. 1954, 1-14.
- Ciferri, R., Picco, D., and Zanardi, D.:** Beobachtungen über den Phosphorgehalt in mit OMPA behandelten Früchten. (Rückstände von Oktamethylpyrophosphoramid.) (Orig. ital.) *Not. Mal. Piante nr. 30*. 1955, 3-9.
- Clegg, K. M., and Lewis, S. E.:** Vitamin-B content of foodstuffs fumigated with methyl bromide. *J. Sci. Food, Agric., London*, 4. 1953, 548-552.
- Clor, M. A., and Crafts, A. S.:** Comparative translocation of C 14 labelled 2,4-D, amino triazole and urea in cotton plants and subsequent leakage from roots. *Plant Physiol., Lancaster*, 32. 1957, X-XI (Suppl.).
- Cooke, A. R.:** Influence of 2,4-D on the uptake of minerals from the soil. *Weeds* 5 (1). 1957, 25-28.
- Corey, R. A., Dorman, S. C., Hall, W. E., and Glover, L. C.:** Translocation studies with two new phosphate insecticides. (Compounds 1836 and 2046 for mite control.) *J. econ. Ent.* 46. 1953, 386-387.
- Crafts, A. S.:** Absorption and translocation of herbicides. *Proc. North Centr. Weed Control Conf.* 10. 1953, 28.
- Crafts, A. S.:** Comparative mobility of labelled herbicides in plants. *Summ. Pap. 4th int. Congr. Crop Prot.* 1957, 68-69.
- Crafts, A. S.:** Herbicides; their absorption and translocation. *J. agric., Food Chem., Washington*, 1. 1953, 51-55.
- Crandall, P. C.:** Relation of preharvest sprays of maleic hydrazide to the storage life of Delicious apples. *Proc. amer. Soc. hortic. Sci.* 65. 1955, 71-73.
- Crane, J. C., DeKazos, E. D., and Brown, J. G.:** The effect of 2,4,5-trichlorophenoxyacetic acid on growth, moisture and sugar content of apricot fruits. *Proc. amer. Soc. hortic. Sci.* 68. 1956, 105-112. — *Bull. signal., Paris*, 18. 1957, 2843.
- Cressman, A. W.:** Effect of oil and parathion sprays on soluble solids of oranges. *J. econ. Ent.* 48. 1955, 216-217.
- Croker, B. H.:** Effects of 2,4-dichlorophenoxyacetic acid and 2,4,5-trichlorophenoxyacetic acid on mitosis in *Allium cepa*. *Bot. Gaz., Chicago*, 114. 1953, 274-283.
- Currier, H. B.:** Effects of toxic compounds: stimulation, inhibition, injury, and death. (Economic poisons.) *Handb. Pflanzenphysiol.* 2. 1956, 792-825.
- Dalbro, S., und Nielsen, G.:** Der Einfluß einiger Sprühmittel auf Wachstum und Photosynthese in Äpfelbäumen. (Orig. dän., engl. Zusammenfassung.) *Tidskr. Planteavl, København*, 58. 1955, 657-682.
- D'Amato, F.:** Notes on the chromosome breaks induced by pure gammexane. *Caryologica* 2. 1950, 361-364.
- Darlington, C. D., and McLeish, J.:** Action of maleic hydrazide on the cell. *Nature, London*, 167. 1951, 407-408.
- Datta, S. C., and Dunn, S.:** The action of 2,4-D on mustard as modified by six different light qualities. *New Haven agric. Exp. Stat. Res. Mimeogr.* 4. 1956, 5 p.
- Davis, A. M.:** Some anatomical effects of sodium 2,2-dichloropropionate in plants. *Proc. 10th south. Weed Conf.* 1957, 143-144.
- Davison, R. M.:** Effect of various growth-regulating substances on fruit drop and storage life of apples. *New Zealand J. Sci., Technol. A* 38. 1956, 45-51.

- Decker, G. C.:** Pesticide residues on plants. *Agric. Chem.*, Baltimore, 12 (2). 1957, 39-40, 97.
- Delindati, G.:** Kupfer und Vitamin C in behandelten Tomaten. (Orig. ital.) *Ind. ital. Conserve* 25. 1950, 187-190.
- Deszych, E. J.:** Effect of variable rates of lead arsenate sprays on the acid content of Ruby Red grapefruit. *Amer. Soc. hortic. Sci.* 51st Ann. Meetg., Florida, 37. 1954.
- Deszych, E. J., Reitz, H. J., and Sites, J. W.:** Effect of copper and lead arsenate sprays on total acid content and maturity of Duncan grapefruit. *Proc. Florida State hortic. Soc.* 1952, 38-42.
- Deszych, E. J., and Ting, S. V.:** Effect of lead arsenate sprays on the sucrose content of grapefruit. *Amer. Soc. hortic. Sci.* 52. Ann. Meetg., East Lansing, 1955, 47-48.
- Dhillon, A. S., and Lucas, E. H.:** Absorption, translocation, and persistence of 2,4-dichlorophenoxyacetic acid in some plants. *Bot. Gaz.*, Chicago, 112. 1950, 198-207.
- Dickey, R. S., and Ark, P. A.:** Investigations concerning injury in tomato seeds treated with mercurials. *Phytopathology* 40. 1950, 964 (Abstr.).
- Dickey, R. S., and Ark, P. A.:** Studies on penetration of mercury into tomato seeds. *Phytopathology* 40. 1950, 965 (Abstr.).
- Donà dalle Rose, A.:** Control of *Cercospora* and physiological action of copper. *Agric. Venezia* 10. 1956, 137-143.
- Donà dalle Rose, A., and dal Monte Casoni, P.:** Weitere Untersuchungen über den Einfluß von Maleinhydrazid auf vor der Ernte behandelte Zuckerrüben. (Orig. ital.) *Ann. Sperim. agr.*, Roma, (n. ser.) 10. 1956, 275-288.
- Doxey, D.:** The effects of isopropylphenyl-carbamate, "methoxone" and gamma-hexachlorocyclohexane on mitosis. *Proc. int. Congr. Crop Prot.* 2 (1949). 1951, 113-118.
- Doxey, D.:** The use of radioactive iodine in the study of a plant growth-regulator. *J. exp. Bot.* 4 (10). 1953, 53-58.
- Doxey, D., and Rhodes, A.:** The effects of the gamma isomer of benzene hexachloride (hexachlorocyclohexane) on plant growth and on mitosis. *Ann. Bot.* (n. s.) 15. 1951, 47-52.
- Dugger jr., W. M., and Humphreys, T. E.:** Effect of biocidal materials on the physiology of plants (2,4-D). *Florida agric. Exp. Stat. Ann. Rept.* 1956, 104-105.
- Eaks, I. L., and Sinclair, W. B.:** Respiratory response of avocado fruits to fumigation effective against the eggs and larvae of fruit flies. *J. econ. Ent.* 48. 1955, 369-372.
- Eastwood, T., and Cobb, J. S.:** The effect of herbicides upon potatoes used for chipping. (Physiological study.) *Proc. northeast. Weed Control Conf.* 7. 1953, 241-246.
- Eaves, C. A.:** Influence of fungicides on the storage quality of apples. *Canad. Comm. Fruit, Veg. Preserv. Rept.* 1955, 1 (Abstr.).
- Ehrenhardt, H.:** Über die Wirkung des Hexachlorcyclohexans als systemisches Insektizid. *Anz. Schädl.kunde* 27. 1954, 1-5. — *Angew. Chem.* 66. 1954, 211.
- Emge, R. G., and Linn, M. B.:** Effect of spraying with zineb on the growth and zinc content of the tomato plant. *Phytopathology* 42. 1952, 133-136.
- Ennis, W. B.:** Responses of corn to 3-amino-1,2,4-triazole. *Proc. south. Weed Conf.* 9. 1956, 71-79.
- Ennis jr., W. B., Williamson, R. E., and Dorschner, K. P.:** Studies of spray retention by leaves of different plants. *Weeds* 1. 1952, 274-286.
- Erickson, L. C., and Richards, S. J.:** Influence of 2,4-D and soil moisture on size and quality of Valencia oranges. *Proc. amer. Soc. hortic. Sci.* 65. 1955, 109-112.

- Ezell, B. D., and Wilcox, M. S.:** Physiological and biochemical effects of maleinhydrazide on pre- and post-harvest behaviour. *J. agric., Food Chem., Washington*, 2. 1954, 513. — *Chem. Zentralbl.* 127. 1956, 1711.
- Faludi, B.:** Die Wirkung von 2, 4-Dichlorphenoxyessigsäure und Gluthation auf das Wachstum der Gewebekulturen von Kartoffeln. *Naturwissenschaften* 43. 1956, 280-281.
- Fang, S. C., and Butts, J. S.:** Plant metabolism. IV. Comparative effects of 2, 4-dichlorophenoxyacetic acid and other plant-growth regulators on phosphorus metabolism in bean plants. *Plant Physiol., Lancaster*, 29. 1954, 365-368.
- Fang, S. C., Freed, V. H., Johnson, R. H., and Coffee, D. R.:** Absorption, translocation and metabolism of radioactive 3-(p-chlorophenyl) 1,1-dimethylurea by bean plants. *J. agric., Food Chem., Washington*, 3. 1955, 400-402.
- Fidler, J. C.:** The effect of ethylene on the rate of respiration of apples, as a function of temperature. *Congr. int. Bot. Rapp., Commun.* 8. (Sect. 11/12). 1954, 392-394.
- Fischnich, O., Pätzold, Chr., und Thielebein, M.:** Anwendung von Maleinsäurehydrazid bei einigen Kulturpflanzen. *Angew. Bot.* 28. 1954, 88-113.
- Fisher, V. J.:** The effect of various foliar sprays on the size and composition of the fruit and on the rate of respiration of the leaves of the red cherry. *Microfilm Abstr., Ann. Arbor (Michigan)*, 10 (3). 1950, 120-121.
- Fleming, W. E., and Maines, W. W.:** Effect of chlorinated organic compounds on plants grown in treated soil. *US Bur. Ent., Plant Quar., Washington*, E-872. 1953, 1-7.
- Flerow, A. F., und Kowalenko, J. I.:** Einfluß der Alpha-Naphthylessigsäure auf die Bewegung der Zucker in den Stecklingen der Weinrebe. (Orig. russ.) *Ber. Akad. Wiss. UdSSR* 85. 1952, 221-224. — *Chem. Zentralbl.* 124. 1953, 238.
- Fontana, P., Martelli, R., and Casarini, B.:** Translocation of zinc ethylene bisdithiocarbamate. (Orig. ital.) *Not. Mal. Piante* nr. 35/36. 1956, 67-70.
- Fontana, P., and Zampighi, G.:** Anti-downy mildew activity, persistence, and translocation of ethylene bisdithiocarbamate of zinc on grapes. (Orig. ital.) *Ann. Fac. Agr. Milan Univ. Cattolica Sacro Cuore* 1. 1954, 176-186.
- Forsyth, F. R.:** Effect of DDT on the metabolism of Khapli wheat seedlings. *Nature, London*, 173. 1954, 827.
- Fransen, J. I., en Kerssen, M. C.:** Werking van Parathionresidus op diverse koolsoorten. *Meded. Landbouwhooges., Opzoek. stat. Gent* 18. 1953, 422-438. — *Bull. analyt., Paris*, 15. 1954, 1375.
- Freiberg, S. R.:** Effect of growth regulators on ripening, split peel, reducing sugars and diastatic activity of bananas. *Bot. Gaz., Chicago*, 117. 1955, 113-119.
- Frohberger, P. E.:** Über das Verhalten des Insektizids E 605 auf und in der Pflanze. *Nachr.bl. dtsh. Pfl.schutzd., Braunschweig*, 1. 1949, 155-158.
- Fromantin, J.:** Quelques considérations d'ordre évolutif à la suite des effets du 2, 4-D sur la structure des carpelles de *Ranunculus arvensis* L. *Rev. gén. Bot., Paris*, 63. 1956, 293-313.
- Fukuto, T. R., Metcalf, R. L., March, R. B., and Maxon, M. G.:** Chemical behaviour of Systox isomers in biological systems. *J. econ. Ent.* 48. 1955, 347-354. — *Bull. signal., Paris*, 17. 1956, 994.
- Fukuto, T. R., Wolf, J. P., Metcalf, R. L., and March, R. B.:** Identification of the sulfoxide and sulfone plant metabolites of the thiol isomer of systox. *J. econ. Ent.* 49. 1956, 147-151.

- Fults, J. L., and Payne, M. G.:** The effect of 2, 4-D and maleic hydrazide on sprouting, yields and color in Red McClure potatoes. *Amer. Potato J.* 32. 1955, 451-459. — *Chem. Zentralbl.* 128. 1957, 1030.
- Fults, J. L., und Payne, M. G.:** Wirkung von 2, 4-Dichlorphenoxyessigsäure und Maleinsäurehydrazid auf freie Aminosäuren und Proteine in den obersten Teilen von Kartoffel-, Zuckerrüben- und Bohnenpflanzen. *Bot. Gaz., Chicago*, 118. 1956, 130-133.
- Gallup, A. H., and Gustafson, F. G.:** Absorption and translocation of radioactive 2, 4-dichloro-5-iodo¹³¹-phenoxyacetic acid by green plants. *Plant Physiol., Lancaster*, 27. 1952, 603-612.
- Gar, K. A., and Kipiani, R. Y.:** Research by means of radioactive isotopes concerning penetration and residues of phospho-organic insecticides in plants. *Proc. int. Conf. Peaceful Uses Atomic Energy 1955* (12). 1956, 185-199.
- Garciduenas, M. R., and Kommedahl, T.:** Effects of 2, 4-dichlorophenoxyacetic acid on the histology of the soyabean. *Ciencia (Mexico)* 16. 1956, 143-146.
- Garman, P., Keirstead, L. G., and Mathis, W. T.:** Quality of apples as affected by sprays. *Connecticut agric. Exp. Stat. Bull.* 576. 1953, 46 p.
- Garren, R., Rimmert, L. F., and Lawrence, N. L.:** Effect of 2, 4-D on translocation and accumulation of food materials in the bean plant. *Bot. Gaz., Chicago*, 115. 1953, 105-121.
- Gasser, R.:** Über das Verhalten von selektiven Insektiziden mit Tiefenwirkung in der Pflanze. *Ber. schweiz. bot. Ges.* 62. 1952, 66-79.
- Gaßner, G., und Grimm, H.:** Über die Wirkung von Kupferkalkspritzungen auf Ertrag und Stärkegehalt der Kartoffeln. *Angew. Bot.* 26. 1952, 60-68. — *Chem. Zentralbl.* 124. 1953, 4268.
- Geisler, E.:** Einige Beobachtungen über den Einfluß des Hexachlorcyclohexans auf die Pflanze. *Nachr.bl. dtsh. Pfl.schutzd., Braunschweig*, 2. 1950, 131-135.
- Gifford, E. M.:** Some anatomical and cytological responses of barley to maleic hydrazide. *Amer. J. Bot.* 43. 1956, 72-80.
- Giggard, E., Cox, C. E., and Kramer, A.:** Effect of spray schedule on tomato product quality. *Food Packer, New York*, 31 (13). 1950, 46-48.
- Gilpin, G. I., Dawson, E. H., and Siegler, E. H.:** Quality and yield of filbert nutmeats as affected by time of insect attack and use of certain insecticides. *Food Technol., London*, 7. 1953, 329-331.
- Glasser, R. F.:** Evidence of the presence of a toxic metabolite of aldrin in carrot plant material. (Based on toxicity studies with *Drosophila melanogaster*.) *Diss. Abstr.* 16. 1956, 869-870.
- Gooding, E. G. B., and Hubbard, A. W.:** The effect of certain sprout-depressant treatments on sugar accumulation in stored potatoes. *J. Sci. Food, Agric., London*, 7. 1956, 574-577.
- Gordon, S. A., and Moss, R. A.:** The activity of S-(carboxymethyl)-dimethyldithiocarbamate as an auxin. *Plant Physiol., Lancaster*, 31 (Suppl.). 1956, XXVII. (Abstr.).
- Granhall, I.:** Effects of pesticides on crop quality. (Orig. schwed.) *Malmöhus läns Hushålln. sällsk. Kvart. skr.*, Malmö, 1. 1956, 58-64.
- Greulach, V. A.:** Starch metabolism of plants treated with maleic hydrazide. *Bot. Gaz., Chicago*, 114. 1953, 480-481.
- Greulach, V. A., and Atchinson, E.:** Inhibition of mitosis in bean buds by maleic hydrazide. *Bot. Gaz., Chicago*, 114. 1953, 478-479.
- Gross, W.:** Wirkung von α -Naphthylester auf Atmung und Gärung von Hefen. *Naturwissenschaften* 43. 1956, 184.

- Gunar, I. I., Krastina, E. E., und Briushkova, K. A.:** Einfluß von 2,4-Dichlorphenoxyessigsäure auf den Metabolismus der Sonnenblumen bei verschiedenen Temperaturen. (Orig. russ.) Dokl. Akad. Nauk SSSR 84. 1952, 173-176.
- Gupta, J. C. S., and Chattopadhaya, S. K.:** Effect of treatments with hormones on the setting of fruits and induction of seedlessness. Proc. Indian Sci. Congr. Assoc. 41 (3). (Abstr.). 1954, 159.
- Guseinov, D. M., Edigarova, N. N., and Kasimova, G. S.:** Stimulating effect of organic substances of petroleum origin on growth of plants and microorganisms. (Orig. russ.) Fiziol. Rast. 3. 1956, 149-156.
- Guttenberg, H.:** Der Einfluß von Wirkstoffen auf die Plasmapermeabilität. Congr. int. Bot. Rapp., Commun. 8 (Sect. 11/12). 1954, 158-160.
- Cyrisco, C. G., and Burrage, R. H.:** Effects of soil treatments with insecticides on plant growth and fruit quality of strawberries. J. econ. Ent. 47. 1954, 859-863. — Bull. analyt., Paris, 16. 1955, 2120.
- Haccius, B., und Linden, G.:** Untersuchungen zur 2,4-D-Persistenz in pflanzlichen Geweben. Ztschr. Bot. 44. 1956, 145-152.
- Hacskeylo, J., and Ergle, D. R.:** Compositional and physiological responses of the cotton plant to the systemic insecticides Schradan and Demeton. Texas agric. Exp. Stat. Bull. 821. 1955, 18 p.
- Hacskeylo, J., and Ergle, D. R.:** Effect of Schradan on growth and photosynthetic pigments of the cotton plant. Bot. Gaz., Chicago, 117. 1955, 120-126.
- Hacskeylo, J., and Ergle, D. R.:** Nutritional factors associated with the absorption and accumulation of Schradan by cotton. Proc. Assoc. south. agric. Workers 52. 1955, 152-153. (Abstr.).
- Haines, R. G.:** Evidence of lindane translocation in corn plants. J. econ. Ent. 49. 1956, 563-564. — Bull. signal., Paris, 18. 1957, 1424.
- Haines, R. G.:** Lindane content of tissues of plants grown in soil or nutrient solution. Diss. Abstr. 15. 1955, 2376.
- Hall, W. C.:** Morphological and physiological responses of carnation and tomato to organic phosphorus insecticides and inorganic soil phosphorus. Plant Physiol., Lancaster, 26. 1951, 502-524.
- Hall, W. C.:** The relationship of TEPP and photoperiod to flowering and fruiting in tomato. Proc. Iowa Acad. Sci. 58. 1951, 133-138.
- Haller, M. H.:** Effect of 2,4,5-trichlorophenoxypropionic acid on maturity and storage quality of apples. Proc. amer. Soc. hortic. Sci. 64. 1954, 222-224.
- Hamilton, J. M.:** Using fungicides to best advantage for apple scab control and their effect on yield and quality of fruit. Michigan State hortic. Soc. Ann. Rept. 85 (1955). 1956, 83-90.
- Hammar, H. E.:** Effect of spray residues and other contaminants on leaf analysis. Proc. Assoc. south. agric. Workers 52. 1955, 150-151. — Plant Physiol., Lancaster, 31. 1956, 256-257.
- Hanf, M.:** Erfahrungen über die Unkrautbekämpfung mit Wuchsstoffen in Kartoffeln. (Einschl. Geschmacksprüfungen.) Mitt. Biol. Bundesanst. H. 87. 1957, 59-61.
- Harding, P. L.:** Effects of oil-emulsion and parathion sprays on composition of early oranges. Proc. amer. Soc. hortic. Sci. 61. 1953, 281-285. — Citrus Mag. 16 (10). 1954, 22-25.
- Harding, P. L.:** The effect of oil and of parathion sprays on the quality of early oranges. Citrus Ind. 31 (11). 1950, 12.
- Harding, P. L.:** The effect of oil and parathion sprays on the quality of early oranges. Citrus Mag. 13 (2). 1950, 24-25.
- Harding, P. L.:** Parathion in citrus sprays: effect of early orange quality. Florida Grower 59 (10). 1950, 6-7.

- Harlan, K. P.:** Ripening studies with honeydew melons. (Treating with ethylene.) Proc. amer. Soc. hort. Sci. 51st Ann. Mtg. 1954, 18.
- Harris, C. S.:** Effects of certain insecticides and related chemicals on photosynthesis in cucumbers and beans. Proc. amer. Soc. hort. Sci. 60. 1952, 335-340.
- Hartley, G. S.:** Chemical reactions and decomposition of Hanane and Systox in the living plant. Compt. rend. Congr. int. Phytopharm. 3 (1952). 1954, nr. 2, p. 131-135.
- Hartley, G. S.:** Organo-phosphorus insecticides. The behaviour of Schradan in the plant. Chem. and Ind. (Rev.), London, 1954, 529-532.
- Hartley, G. S., and Heath, D. F.:** Decomposition of radioactive octamethylpyrophosphoramidate in living plants. Nature, London, 167. 1951, 816.
- Haskew, H. C.:** The effect on CCS of spraying 2,4-D on to growing cane. Cane Growers' Quart. Bull. (Queensl.) 17(2). 1953, 52-53.
- Haun, J. R., and Peterson, J. H.:** Translocation of 3-(p-chlorophenyl)-1,1-dimethylurea in plants. Proc. (north centr.) Weed Control Conf. 10. 1953, 28-29. (Abstr.).
- Hauser, E. W.:** Absorption of 2,4-dichlorophenoxyacetic acid by soybean and corn plants. Agron. J., Washington, 47 (1). 1955, 32-36. — Bull. analyt., Paris, 16. 1955, 2554.
- Hay, J. R.:** The effect of 2,4-D and Tiba on an auxin transport mechanism in bean stems. Proc. north. centr. Weed Control Conf. 12. 1955, 4-5.
- Hay, J. R.:** The effect of 2,4-dichlorophenoxyacetic acid and 2,3,5-triodobenzoic acid on the transport of indoleacetic acid. Plant Physiol., Lancaster, 31. 1956, 118-120.
- Hay, J. R.:** Experiments on the mechanism for the translocation of 2,4-D. Plant Physiol., Lancaster, 30. 1955, Suppl. p. V-VI (Abstr.).
- Hay, J. R.:** Translocation of herbicides in marabu (*Cailliea glomerata*). I. Translocation of 2,4,5-trichlorophenoxyacetic acid following application to the bark or to cutsurfaces of stumps. Weeds 4. 1956, 218-226.
- Heath, D. F.:** The composition of Systox and the behaviour of this insecticide in the living plant. Pest Control Ltd., Cambridge, 1953.
- Heath, D. F., Lane, D. W. J., and Llewellyn, M.:** Studies on commercial octamethylpyrophosphoramidate. III. Decomposition of the insecticide in plants, using ^{32}P as a tracer. IV. The decomposition of pyrophosphoric acid tetra(dimethylamide) and orthophosphoric acid tri(dimethylamide) in the living plant. J. Sci. Food, Agric., London, 3. 1952, 60-69, 69-73.
- Heath, D. F., Lane, D. W. J., and Park, P. O.:** The decomposition of some organophosphorus insecticides and related compounds in plants. Trans. R. ent. Soc. London, Ser. B. (Biol. Sci.), 239. 1955, 191-214.
- Heidenreich, E.:** Innertherapeutische Effekte bei der Anwendung von Gamma-HCH. Meded. Landbouwhoogesch., Opzoek.stat. Gent, 19. 1954, 546-553.
- Henderson, J. H. M.:** The influence of 2,4-D and other growth regulators on phototropism. (In oats) Plant Physiol., Lancaster, 31 (Suppl.). 1956, XIV (Abstr.).
- Henderson, J. H. M., Miller, I. H., and Desse, D. C.:** Effect of 2,4-D on respiration and on destruction of indolylacetic acid (IAA) in oat and sunflower tissues. Science, Lancaster, 120. 1954, 710-712.
- Herbert, R. A., and Linck, A. J.:** The influence of 3-amino-1,2,4-triazole on the carbohydrate balance and respiration in Canada thistle (*Cirsium arvense*). Plant Physiol., Lancaster, 32. 1957, Suppl. p. VI.

- Highlands, M. E., Licciardello, J. J., and Cunningham, C. E.:** Reducing sugar content of Maine-grown potatoes treated with maleic hydrazide. *Amer. Potato J.* 29. 1952, 225-227. — *Chem. Zentralbl.* 125. 1954, 7729.
- Hilborn, M. T., and Plummer jr., B. E.:** Influence of various fungicides on the chlorophyll content of apple foliage. *Phytopathology* 44. 1954, 111.
- Hilst, A. R.:** Effect of 2,4-D on quality and agronomic characteristics of wheat. *Diss. Abstr.* 15. 1955, 663-664.
- Hofmann, E., und Schmeling, B.:** Zur Wirkung der 2,4-Dichlorphenoxyessigsäure auf den Stoffwechsel bzw. Fermentgehalt der Pflanzen. *Naturwissenschaften* 40 (1). 1953, 23-24.
- Holly, K.:** Penetration of chlorinated phenoxyacetic acids into leaves. *Ann. appl. Biol.* 44. 1956, 195-199.
- Holmes, A. D., Spelman, A. F., and Wetherbee, R. T.:** Composition of butternut squashes from vines treated with maleic hydrazide. *Food Res.* 19. 1954, 293-297.
- Hoos, J. W., Leonhard, S. J., and Luh, B. S.:** Effect of 2,4,5-trichlorophenoxyacetic acid spray on organic acids and pectin content of canned apricots. *Food Technol., London*, 10. (5, Suppl.) 1956, 33.
- Hoover, M. W.:** Preliminary studies relating to the effect of maturity and storage treatments upon the quality of cantaloupes. *Proc. Florida State hortic. Soc.* 68. 1955, 185-188.
- Hopf, M.:** Untersuchung an Kartoffelknollen über eine Beeinflussung ihrer Phytophthora infestans-Resistenz durch Insektizide. (Vorl. Mitt.) *Nachr.bl. dtsh. Pfl. schutzd., Berlin*, N. F. 5. 1951, 74-75.
- Horsfall, J. G., and Dimond, A. E.:** Interactions of tissue sugar, growth substances and disease susceptibility. *Ztschr. Pfl. krankh.* 64. 1957, 415-421.
- Housley, S., and Bentley, J. A.:** Studies in plant growth hormones. IV. Chromatography of hormones and hormone precursors in cabbage. *J. exp. Bot.* 7. 1956, 219-251.
- Hull, H. M.:** Chemical and physiological studies. *Res. Progr. Rept. east. Weed Control Conf.* 1957, 95-105.
- Hull, H. M.:** Studies on herbicidal absorption and translocation in velvet mesquite (*Prosopis*) seedlings. *Weeds* 4. 1956, 22-42.
- Humphreys, T. E., and Dugger, W. M.:** The effect of 2,4-dichlorophenoxyacetic acid on pathways of glucose catabolism in higher plants. *Plant Physiol., Lancaster*, 32. 1957, 136-140.
- Hyypio, P. A., Tsou, T. M., and Wilson, G. B.:** Some notes on the „C-mitotic“ action of colchicine and technical lindane. *Cytologia* 20. 1955, 166-176.
- Isenberg, F. M. R., Odland, M. L., and Jensen, C. O.:** Effects of foliar sprays of maleic hydrazide on the storage and respiration of certain vegetable crops. *Pennsylv. agric. Exp. Stat. Bull.* 584. 1954, 12 p.
- Isenberg, F. M. R., Odland, M. L., Popp, H. W., and Jensen, C. O.:** The effect of maleic hydrazide on certain dehydrogenases in tissues of onion plants. *Science, Lancaster*, 113. 1951, 58-60.
- Ivy, E. E., Iglinsky jr., W., and Rainwater, C. F.:** Translocation of octamethyl pyrophosphoramidate by the cotton plant and toxicity of treated plants to cotton insects and a spider mite. *J. econ. Ent.* 43. 1950, 620-626.
- Iwanami, Y.:** Einfluß von 2,4-D auf den Blütenstaub. (Orig. jap.). *Science, Lancaster*, 22. 1952, 149-150. — *Chem. Zentralbl.* 124. 1953, 1033.
- Jackson, H.:** Effect of maleic anhydride on certain physiological responses of celery. *Diss. Abstr.* 13. 1953, 147.

- Jameson, H. R., and Tanner, C. C.:** Taint in potatoes grown on land treated with crude benzene hexachloride against wireworms. *J. Sci. Food, Agric.*, London, 2. 1951, 171-175.
- Jaworski, E. G.:** Biochemical action of CDAA, a new herbicide. *Science, Lancaster*, 123. 1956, 847-848.
- Jaworski, E. G., Fang, S. C., and Freed, V. H.:** Studies in plant metabolism. V. The metabolism of radioactive 2,4-D in etiolated bean plants. *Plant Physiol.*, Lancaster, 30. 1955, 272-275.
- Johnson, E. J., and Colmer, A. R.:** Relation of structure of 2,4-dichlorophenoxyacetate to its mode of action as an auxin. *Nature*, London, 180. 1957, 1365-1366.
- Johnson, R. R., and Whitehead, E. I.:** Growth and selenium content of wheat plants as related to the selenite selenium content of soil. *Proc. South Dakota Acad. Sci.* 30. 1951, 130-136.
- Johnson, R. R., and Whitehead, E. I.:** Studies with selenium 75. I. Selenium uptake by wheat plants as determined by measurement of radioactivity and A.O.A.C. method of selenium analysis. *Proc. South Dakota Acad. Sci.* 31. 1952, 194-198.
- Kandler, O.:** Über den Einfluß von 2,4-Dinitrophenol auf Atmung und Wachstum in vitro kultivierter Maiswurzeln. *Ztschr. Naturforsch.* 5b. 1950, 338-344.
- Kaufman, P. B.:** Histological response of the rice plant (*Oryza sativa*) to 2,4-D. *Amer. J. Bot.* 42. 1955, 649-659.
- Keijer, E. J., and Dijksterhuis, H. P.:** The influence of spraying on the occurrence of physiological storage diseases in apples. I. (Orig. holl.) *Meded. Dir. Tuinbouw, 's-Gravenhage*, 19. 1956, 396-400, 406.
- Kendall, W. A.:** Effect of certain metabolic inhibitors on translocation of ^{32}P in bean plants. *Plant Physiol.*, Lancaster, 30. 1955, 347-350.
- Kennard, W. C., and Winters, H. F.:** Effect of 2,4,5-trichlorophenoxypropionic acid application on the size, maturation and quality of Amini mangos (*Mangifera indica*, L.). *Amer. Soc. hortic. Sci. Ann. Meetg.*, East Lansing, 52. 1955, 34.
- Kennedy, W. K., Hesse, W. H., and Johnson, C. M.:** Effect of herbicides on the drying rate of hay crops. *Agron. J.*, Washington, 46. 1954, 199-203.
- Kessler, G. M.:** Influence of pre-harvest sprays of growth regulators on the chemical composition and ripening of McIntosh and Northern Spy apples. *Michigan agric. Exp. Stat. Quart. Bull.* 36. 1953, 67-75.
- Kilby, B. A.:** *Die Biochemie von Schradan*. *Chem. and Ind. (Rev.)*, London, 1953. 856-861. — *Chem. Zentralbl.* 125. 1954, 7687.
- Kloke, A.:** *Der Einfluß von Pflanzenschutzmitteln auf Boden und Pflanze*. *Ausbild., Beratung Landw.* 5. 1952, 149.
- Koike, H.:** Systemic action and change of parathion in plants. Tests of aphid control. (Orig. jap.) *Oyo-Kontyu (Nippon Soc. appl. Ent.)*, Tokyo, 9. 1953, 115-120.
- Koike, H., and Tomizawa, C.:** Biochemical changes of sweet potato induced by treatment of organophosphorus insecticides. (Orig. jap.) *Botyu Kagaku (Sci. Insect Control)* 19. 1954, 121-127.
- Koriukaev, S. I., and Vinogradova, E. I.:** Duration of winter wheat vernalization in relation to harvesting dates of seeds. (Orig. russ.) *Agrobiologiya*, Moskwa, 1950, nr. 3, p. 67-69.
- Kozlova, E. N.:** Über das Eindringungsvermögen organischer Insektizide in Pflanzengewebe. (DDT und HCH) (Orig. russ.) *Dokl. Vsesoiuzn. Akad. Sel'skhoz. Nauk im. V. I. Lenina (Proc. Lenin Acad. agric. Sci.)* 15 (3). 1950, 30-32.
- Kramm, E.:** Die Tiefenwirkung einiger Kontaktinsektizide im pflanzlichen Gewebe. *Ztschr. Pfl.krankh.* 60. 1953, 20-26.

- Kulescha, Z.:** Action de l'hydrazide maléique sur la teneur en auxine des tissus de topinambur cultivés en présence de diverses substances de division. *Acta Bot. Neerland.* 4. 1955, 404-409.
- Lakshmikantham, M., and Prasadarao, K. K.:** Preliminary studies on the effect of spraying 2, 4-D on juice quality of sugarcane. *Proc. Sugar Technol. Assoc. India* 23. 1954, 109-118.
- Lambou, M. G., Parker, N. S., und Carns, H. R.:** Wirkung von Maleinhydrazid, angewendet auf die Baumwollpflanze bei der Entwicklung freier Fettsäuren im Samen. (Orig. engl.) *J. amer. Oil Chemists Soc.* 33. 1956, 199-202. — *Chem. Zentralbl.* 128. 1957, 4736.
- Langenbuch, R.:** Über das Eindringvermögen des Hexachlorcyclohexans in das Kartoffelblatt. *Nachr.bl. dtsh. Pfl. schutzd., Braunschweig.* 3. 1951, 118-122.
- Langston, R.:** Herbicidal action: activities and residues of sulfur-35-labelled bis (ethyl xanthic) disulfide. (Herbisan.) *J. Agric., Food Chem., Washington.* 3. 1955, 849-851.
- Lefèvre, P. C.:** Détermination de la valeur organoleptique de graines de café marchand après traitement au H. C. H. de cerises en champs et de fèves en parche. *Bull. Inform. Inst. Nat. Étude Agron. Congo Belge* 3. 1954, 261-263. — *Bull. agric. Congo Belge* 45 (4). 1954.
- Leopold, A. C.:** The fate of 2, 4-D in plants and soils. *Proc. Weed Control Conf.* 1956, 4.
- Leopold, A. C., and Price, C. A.:** The influence of growth substances upon sulfhydryl compounds. *Proc. Symp. Plant Growth Substances.* Wye Coll., 1955. 1956, 271-283.
- Lilly, J. H., and Fahey, J. E.:** Translocation of BHC from high-dosage soil treatments applied before planting. *J. econ. Ent.* 49. 1956, 815-818. — *Bull. signal., Paris.* 18. 1957, 1752.
- Lindgren, D. L., and Sinclair, W. B.:** Effect of ethylene dibromide and ethylene chlorobromide fumigation on citrus and avocado fruits. *J. econ. Ent.* 46. 1953, 7-10.
- Livingston, C. E., Payne, M. G., and Fults, J. L.:** Effects of maleic hydrazide and 2, 4-D on the free amino acids in sugar beets. *J. Colorado-Wyoming Acad. Sci.* 4(6). 1954, 47-48 (Abstr.).
- Longchamp, R., Richez, M., et Gautheret, R. J.:** Action de dérivés de l'hydrazide maléique sur le développement et la teneur en sucres de quelques végétaux. *Rev. gén. Bot., Paris.* 63 (743). 1956, 22-28.
- Lord, K. A.:** Esterase inhibition by organophosphorus residues, with some observations on possible effects on plant metabolism. *Ann. appl. Biol.* 43. 1955, 192-202.
- Loustalot, A. J., Cruzado, H. J., and Muzik, T. J.:** The effect of 2, 4-D on sugar content of sugar-cane. *Sugar J., New Orleans.* 13. 1950, nr. 5, p. 78. *Actualidades* 1951, 50-53.
- Loustalot, A. J., and Muzik, T. J.:** Effect of 2,4-D on apparent photosynthesis and developmental morphology of velvet bean. *Bot. Gaz., Chicago.* 115. 1953, 56-66.
- Lüdicke, M.:** Über das Eindringungsvermögen des Insektizids E 605 f in lebende pflanzliche Gewebe. *Ztschr. Pfl.krankh.* 56. 1949, 31-36.
- Lüdicke, M.:** Über das Verhalten von radioaktivem O,O-Diäthyl-O,p-nitrophenyl-monothiophosphat auf der Pflanze. *Ztschr. Pfl.krankh.* 59. 1952, 451-459.
- Lüdicke, M.:** Über die Aufnahme radioaktiver Kontaktinsektizide bei Pflanzen und Tieren. *Angew. Chem.* 66. 1954, 109. — *Nachr.bl. dtsh. Pfl.schutzd., Braunschweig.* 6. 1954, 122-124.
- Lüdicke, M.:** Weitere Untersuchungen über das Eindringungsvermögen des Insektizids E 605 in lebende pflanzliche Gewebe. *Anz. Schädl.kunde* 22. 1949, 58.

- MacCollom, G. B.:** The effects and correction of DDT phytotoxicity to cucumbers. Diss. Abstr. 14. 1954, 1863-1864.
- MacFarlane, E. W. E.:** Somatic mutations produced by organic mercurials in flowering plants. (Raphanus and Zea mays.) Genetics 35. 1950, 122-123 (Abstr.).
- MacFarlane, E. W. E.:** Some phenyl mercurials as polyploidogenic and radiometric agents for plants, compared with colchicine, with remarks on antagonism. Congr. int. Bot. Rapp., Commun. 8 (Sect. 9/10). 1954, 14.
- Maciejewska-Potapczyk, W.:** The action of 2, 4-D on some of the enzymes of the stomatal cells. (Orig. poln.) Acta Soc. Bot. Polon. 34. 1955, 639-645.
- Mellrath, W. J., Ergle, D. R., and Dunlap, A. A.:** Persistence of 2, 4-D stimulus in cotton plants with reference to its transmission to the seed. Bot. Gaz., Chicago, 112. 1951, 511-518.
- Mahmoud, S. E. M.:** Prestorage treatment of grapefruit with 2, 4-D and its effect on metabolism of fruits in storage. Diss. Abstr. 14. 1954, 8.
- Martin, J. P., Helmkamp, G. K., and Ervin, J. O.:** Effect of bromide from a soil fumigant and from CaBr_2 on growth and chemical composition of citrus plants. Proc. Soil Sci. Soc. Amer. 20. 1956, 209-212. — Bull. signal., Paris, 17. 1956, 2878.
- Mathur, P. B., and Subramanyam, H.:** Effect of a fungicidal wax coating on the storage behaviour of mangoes. J. Sci. Food, Agric., London, 7. 1956, 673-676.
- Mattern, P. J., and Livingston, J. E.:** Effect of three leaf and stem rust chemotherapeutants on the baking behaviour of wheat. Cereal Chem., St. Paul, 32. 1955, 208-211.
- Maxie, E. C., and Crane, J. C.:** Some metabolic effects of 2, 4, 5-trichlorophenoxyacetic acid on Tilton apricot fruits. Proc. amer. Soc. hortic. Sci. 68. 1956, 113-123. — Bull. signal., Paris, 18. 1957, 2844.
- Mayer, F.:** Wirkungsweise von Trichloracetat auf die höhere Pflanze. Ztschr. Naturforsch. 126. 1957, 336-346.
- Mayer, F.:** Zum Verhalten von Trichloracetat und anderen Halogenacetaten gegenüber Sulfhydryl- und Aminogruppen sowie einigen sekundären Pflanzenstoffen. Biochem. Ztschr. 328. 1957, 433-442.
- Meade, J. A., and Kuhn, A. O.:** The carbohydrate content of corn plants as affected by isopropyl-N-(3-chlorophenyl)carbamate. Weeds 4. 1956, 43-49.
- Meletti, P.:** Nouvelles observations sur l'action d'une hormone synthétique (2, 4-D). Congr. int. Bot. Rapp., Commun. 8 (Sect. 11/12). 1954, 186-187.
- Metcalf, R. L.:** Radiotracers in study of systemic insecticides, Agric. Chem., Baltimore, 9 (4). 1954, 33-35, 128-130.
- Metcalf, R. L., and March, R. B.:** Behavior of octamethyl pyrophosphoramidate in citrus plants. J. econ. Ent. 45. 1952, 988-997.
- Metcalf, R. L., March, R. B., Fukuto, T. R., and Maxon, M. G.:** The behavior of Systox-isomers in bean and citrus plants. J. econ. Ent. 47. 1954, 1045-1055.
- Metcalf, R. L., March, R. B., Fukuto, T. R., and Maxon, M. G.:** The nature and significance of Systox residues in plant materials. J. econ. Ent. 48. 1955, 364-369. — Chem. Zentralbl. 127. 1956, 8739.
- Metcalf, R. L., Fukuto, T. R., March, R. B., and Stafford, E. M.:** The systemic behavior of Systox thiol isomer sulfoxide and methosulfate in plants. J. econ. Ent. 49. 1956, 738-741. — Bull. signal., Paris, 18. 1957, 1752.
- Miller, E. V., and Marsteller, R. L.:** Effect of p-chlorophenoxyacetic acid on physiological breakdown of fruits of the pineapple (*Ananas comosus*, L. Merr.). Food Res. 18. 1953, 421-425.
- Mills, H. O.:** Hormones help you improve apple quality. East. States Co-op. 27(8). 1951, 5-6.

- Minshall, W. H.:** Influence of light on the effect of 3-(p-chlorophenyl)-1,1-dimethylurea on plants. *Weeds* 5 (1). 1957, 29-33.
- Minshall, W. H.:** Translocation path and place of action of 3-(4-chlorophenyl)-1,1-dimethylurea in bean and tomato. *Canad. J. Bot.* 32. 1954, 795-798. — *Chem. Zentralbl.* 126. 1955, 8184.
- Minshall, W. H.:** Effect of 3-(4-chlorophenyl)-1,1-dimethylurea (Monuron) on dry matter production and transpiration. *Plant. Physiol., Lancaster*, 32. 1957, Suppl. p. VII.
- Moewus, F.:** The action of 2,4-D on deaminating enzymes. 8. Congr. int. Bot., Rapp., Commun. (Sect. 11/12). 1954, 149-150.
- Mollenhauer, R., and Smith, C. B.:** Tomato plant absorption and translocation of manganese and zinc from dithiocarbamate fungicide sprays. *Proc. amer. Soc. hort. Sci.* 63. 1954, 297-303.
- Moreland, D. E.:** Some physiological and biochemical aspects of the selective action of herbicidal chemicals. *Proc. south. Weed Conf.* 10. 1957, 146-148.
- Moreland, D. E., and Davis, J. C.:** The effects of certain herbicidal chemicals on the activity of an amylase enzyme — a preliminary report. *Proc. south. Weed Conf.* 9. 1956, 150-151 (Abstr.).
- Moycho, W., Jackowska, I., Niemyski, K., Gasiorowska, Z., and Kowal, E.:** Die Wirkung des α -Naphthylethylsäuremethyl-esters auf die Ruheperiode der Kartoffelknollen. (Orig. poln.) *Postepy Nauk Rolniczych* 2. 1955, 136-140. — *Chem. Zentralbl.* 128. 1957, 2582.
- Mühlmann, K., and Tietz, H.:** Das chemische Verhalten von Methylisoxystox in der lebenden Pflanze und das sich daraus ergebende Rückstandsproblem. *Höfchen-Briefe* 9. 1956, 116-140.
- Munger, G. D.:** Sorption and fungitoxicity of radioactive potassium dimethyl- and di-n-propyldithiocarbamates. *Diss. Abstr.* 16. 1956, 438-439.
- Muzik, T. J., Cruzado, H. J., and Morris, M. P.:** A note on the translocation and metabolism of monuron in velvet beans. *Weeds* 5. 1957, 133-134.
- Muzik, T. J., Cruzado, H. J., and Loustalot, A. J.:** Studies on the absorption, translocation and action of CMU. *Bot. Gaz., Chicago*, 116(1). 1954, 65-73. — *Bull. analyt., Paris*, 16. 1955, 3584.
- Muzik, T. J., Morris, M. P., and Cruzado, H. J.:** Translocation and metabolism of 3-(p-chlorophenyl)-1,1-dimethyl urea (CMU) in velvet beans. *Plant Physiol., Lancaster*, 31. 1956, Suppl. p. XIII (Abstr.).
- Newcomb, E. H.:** Tobacco callus respiration and its response to 2,4-dinitrophenol. *Amer. J. Bot.* 37. 1950, 264-271.
- Nickell, L. G., and Finlay, A. C.:** Antibiotics and their effects on plant growth. *J. agric., Food Chem., Washington*, 2. 1954, 178-182.
- Ninomiya, K.:** Effects of maleic hydrazide spraying on vegetable crops. I. Effects of concentration and time of spraying of maleic hydrazide on onions for storage. *J. hort. Assoc. Japan* 24. 1955, 131-142.
- Normand, W. C.:** Some effects of herbicides on cotton. *Diss. Abstr.* 15. 1955, 1989.
- Orgell, W. H., and Weintraub, R. L.:** Some principles involved in foliar absorption of 2,4-D. *Plant Physiol., Lancaster*, 31. 1956, Suppl. p. XXI (Abstr.).
- Oser, B. L., and Hall, L. A.:** The effect of ethylene oxide treatment on the nutritive value of certain foods. *Food Technol., London*, 10. 1956, 175-178.
- Ostapenja, P. W., and Godess, G. Ja.:** Über den Einfluß verschiedener Anwendungsmengen von Hexachloran auf die organoleptischen Eigenschaften von Gemüse. (Orig. russ.) *Fragen Ernährg.* 13 (2). 1954, 46-47. — *Chem. Zentralbl.* 127. 1956, 1177.

- Ostrovskii, N. I.:** Einfluß von Benzolhexachlorid auf Keimen von Saatgut, Entwicklung und Qualität von Zuckerrüben. (Orig. russ.) *Sakarnaia Promyshlennost' (USSR)* 24 (6). 44-47.
- Overcash, J. P.:** Some effects of certain growth-regulating substances on the ripening of Concord grapes. (Includes estimation of watersoluble solids.) *Proc. amer. Soc. hortic. Sci.* 65. 1955, 54-58.
- Owens, R. G.:** Effects of fungicides on polyphenol oxidase. *Phytopathology* 44. 1954, 501.
- Owens, R. G.:** Fungicidal action. III. Effects of fungicides on polyphenol oxidase in vitro. *Contrib. Boyce Thompson Inst.* 17. 1954, 473-487.
- Oyer, E. B.:** Effect of tetrachloroethylene and related compounds on some physiological processes of fungus and higher plant tissues. *Diss. Abstr.* 15. 1955, 1708-1709.
- Ozaki, K.:** On the translocation of parathion and EPN on some bean seedlings. (Orig. jap., engl. Zusammenfassung.) *Oyo-Kontyu (Nippon Soc. appl. Ent.)*, Tokyo, 10. 1954, 167-170.
- Ozaki, K.:** Toxicity of some organic phosphorus insecticides to the rice stem borer and their translocation in the rice plant. *Bull. Nat. Inst. agric. Sci., ser. C., Tokyo*, 4. 1954, 177-185.
- Palmiter, D. H.:** Hudson valley tests of apple fungicides and their long term effects on yield and quality. *Massachus. Fruit Growers' Assoc. Rept. Ann. Meetg.* 60. 1954, 49-52.
- Palmiter, D. H., and Hamilton, J. M.:** Influence of certain nitrogen and fungicide applications on yield and quality of apples. *New York State. agric. Exp. Stat. Bull.* 766. 1954, 41 p.
- Palmiter, D. H., and Smock, R. M.:** Effect of fungicides on McIntosh apple yield and quality: a five-year study under Hudson Valley conditions, 1949-1953. *New York State. agric. Exp. Stat. Bull.* 767. 1954, 40 p.
- Palti, J., and Awner, Z.:** The effect of sodium isopropyl xanthogenate on Shamouti oranges. *Palestine J. Bot. (Rehovot ser.)* 7. 1949, 179-180.
- Pande, H. K.:** Effect of sodium dichlorophenoxyacetate on crop and weeds in wheat. *Agrar Univ. J. Res.* 3. 1954, 241-252.
- Papp, M., and Vajna, S.:** Effect of maleic hydrazide treatment on living processes of beet. *Cukoripari Kutatóintézet Közleményei* 1. 1954, 59-63.
- Paroli, V.:** Entwicklung von *Lupinus albus* L. auf Böden, die mit Quecksilberchlorid behandelt worden sind. (Orig. ital.) *Ann. Bot., Roma*, 24. 1954, 530-547.
- Parsons, C. S., and Davies, E. W.:** Hormone effect on tomatoes grown in nitrogenrich soil. *Proc. amer. Soc. hortic. Sci.* 62. 1953, 371-376.
- Patt, Y.:** The influence of petroleum oils on the germination of citrus seeds and subsequent growth of seedlings. *Palestine J. Bot. (Rehovot ser.)* 7. 1949, 94-102.
- Payne, M. G., and Fults, J. L.:** Effect of maleic hydrazide and 2, 4-D on reducing sugars and sucrose of Red McClure potatoes. *Amer. Potato J.* 32. 1955, 144-149.
- Payne, M. G., Fults, J. L., Hay, R. J., and Livingston, C. R.:** Protein content and specific gravity of Red McClure potatoes increased by 2,4-D treatment. *Amer. Potato J.* 30. 1953, 46-49. — *Chem. Zentralbl.* 127. 1956, 7917.
- Peltier, M.:** Action mitoclastique de certaines substances fongicides. *Compt. rend. Congr. int. Phytopharm.* 3 (1952). 1954, nr. 2, p. 747-750.
- Peterson, C. E., and Gwinn, A. B.:** Influence of vine killing and 2,4-D on yield, specific gravity, and vascular discoloration of potatoes. *Amer. Potato J.* 29. 1952, 253-267. — *Chem. Zentralbl.* 126. 1955, 1126.

- Peto, F. H., Smith, W. G., and Low, F. R.:** Effect of pre-harvest foliage sprays of maleic hydrazide in sugar-beets. Proc. amer. Soc. Sugar Beet Technol. 1952, 101-107.
- Pickett, W. F., Fish jr., A. S., and Shan, K. S.:** The influence of certain organic spray materials on the photosynthetic activity of peach and apple foliage. Proc. amer. Soc. hortic. Sci. 57. 1951, 111-114.
- Pilet, P. E.:** Emploi de l'hydrazide maléique (1,2-dihydropyridazine-3,6-dione) en physiologie végétale. Phytion, Horn (Österr.), 6. 1956, 275-305.
- Pizarro, A. C., and Army, D. C.:** The persistence of Systox in oat plants and its effect on the transmission of yellow-dwarf virus. Phytopathology 47 (1). 1957, 27 (Abstr.).
- Poapst, P. A., and Phillips, W. R.:** The influence of maleic hydrazide on the keeping quality of McIntosh apples. Canad. Comm. Fruit, Veg. Preserv. Rept. 1955, 1 (Abstr.).
- Radwan, A. A. M.:** Effect of certain growth regulators on the yield, earliness and quality of tomatoes. Diss. Abstr. 15. 1955, 1964-1965.
- Rai, G. S., and Hamner, C. L.:** Respiratory activity of certain plant species as affected by sodium trichloroacetate (TCA). Michigan agric. Exp. Stat. Quart. Bull. 38. 1956, 555-558.
- Rankin, H. W.:** The effect of lupine seed treatment by chloranil on plant growth, nodulation and nitrogen fixation. Plant Dis. Repr. 38. 1954, 744-749.
- Rao, S. N., and Wittwer, S. H.:** Certain physiological and morphological responses in potatoes and onions induced by hydrazide. (Maleic hydrazide.) South indian. Hortic. 3. 1955, 74-75.
- Rebstock, T. L., Hamner, C. L., Ball, C. D., and Sell, H. M.:** Effect of 2,4-dichlorophenoxyacetic acid on proteolytic activity of red kidney bean plants. Plant Physiol., Lancaster, 27. 1952, 639-643. — Chem. Zentralbl. 124. 1953, 2303.
- Rebstock, T. L., Hamner, C. L., and Sell, H. M.:** Influence of 2,4-D on the phosphorus metabolism of cranberry bean plants. Plant Physiol., Lancaster, 29. 1954, 490-491.
- Reckendorfer, P.:** Über den mikrochemischen Nachweis des intrazellulären Abbaues systemischer Insektizide. Pflanzenschutzberichte, Wien, 16. 1956, 146-158.
- Reinhold, L., and Powell, R. G.:** A stimulatory action of indole-3-acetic acid on the uptake of amino-acids by plant cells. Nature, London, 177. 1956, 658-659.
- Reitz, H. J.:** A Study of certain factors affecting the acidity of Florida grapefruit following arsenic sprays. Ohio State Univ. Abstr. Doct. Diss. 60. 1948/1949, 249-254.
- Rhodes, A.:** The influence of the plant growth-regulator, 2-methyl-4-chlorophenoxyacetic acid, on the metabolism of carbohydrate, nitrogen and minerals in *Solanum lycopersicum* (tomato). J. exp. Bot. 3. 1952, 129-154.
- Rhodes, A., Templeman, W. B., and Thurston, N. M.:** The effect of the plant growth regulator, 4-chloro-2-methyl phenoxyacetic acid (MCPA, „methoxone“) on the mineral and nitrogen contents of plants. Int. Congr. Crop Prot. Abstr. Commun. 2, 1949, 32-33.
- Ricciardoni, R.:** Der Einfluß einiger Behandlungen mit Fungiziden auf den Zuckergehalt von Weintrauben. (Original.) Coltiv., Giorn. vinic. ital., Casale Monferrato, 100. 1954, 161-162.
- Rice, E. L., and Rohrbaugh, L. M.:** Effect of kerosene on movement of 2,4-dichlorophenoxyacetic acid and some derivatives through destarched bean plants in darkness. Bot. Gaz., Chicago, 115. 1953, 76-81.

- Rice, E. L., and Rohrbaugh, L. M.:** Effects of temperature on the immobilization of 2,4-dichlorophenoxyacetic acid in bean leaves in darkness. *Bot. Gaz., Chicago*, 116. 1955, 261-266.
- Richez, M., et Gautheret, R.:** Action de l'hydrazide maléique sur la teneur en saccharose de fragments de tissus de betterave à sucre cultivés in vitro. *Compt. rend. Acad. Sci.* 238. 1954, 2442-2444. — *Chem. Zentralbl.* 126. 1955, 3892.
- Riehl, L. A., Bartholomew, E. T., and La Due, J. P.:** Effects of narrow-cut petroleum fractions of naphthenic and paraffinic composition on leaf drop and fruit juice quality of citrus. *J. econ. Ent.* 47. 1954, 107-113.
- Riehl, L. A., Jeppson, L. R., and Wedding, R. T.:** Effect of timing of oil spray applications during the fall on juice quality and yield of lemons in two orchards in southern California. *J. econ. Ent.* 50. 1957, 74-76.
- Riehl, L. A., and Wedding, R. T.:** Preliminary observations of effect of oil spray application timing on total soluble solids of Valencia orange juice. *Citrus Leaves* 33(2). 1953, 10-11.
- Riehl, L. A., Wedding, R. T., and Rodriguez, J. L.:** Effect of oil spray application timing on juice quality, yield, and size of Valencia oranges in a southern California orchard. *J. econ. Ent.* 49. 1956, 376-382.
- Riehl, L. A., Wedding, R. T., Rodriguez, J. L., and La Due, J. P.:** Effects of oil spray and of variation in certain spray ingredients on juice quality of citrus fruits in California orchards, 1950-1953. *J. econ. Ent.* 50. 1957, 197-204.
- Riepma, P.:** Boundary phenomena and selectivity. (Retention of herbicides by plants). (Orig. holl.) *Versl. Centr. Inst. landbouwkdg. Onderz., Wageningen*, 1954, 210-214.
- Rigg, H. H.:** Effect of herbicides on a number of aquatic plants. *Proc. 9th ann. Meetg. northeast. Weed Control Conf.* 1955, 535-544.
- Robertson, R. N., Wilkins, M. J., and Weeks, D. C.:** Studies in the metabolism of plant cells. IX. The effects of 2,4-dinitrophenol on salt accumulation and salt respiration. *Austr. J. sci. Res. (ser. B)* 4. 1951, 248-264.
- Rogers, B. J.:** Action of 3-amino-1,2,4-triazole in plants. *Plant Physiol., Lancaster*, 31. 1956, Suppl. p. XXI (Abstr.).
- Rogers, B. J.:** The distribution of radioactive amino triazole in plants. *Proc. north. centr. Weed Control Conf.* 12. 1955, 3-4.
- Rogers, B. J.:** The interaction of chelated iron and 2,4-D in tomato plants. *Proc. Weed Control Conf.* 1956, 7.
- Rogers, B. J.:** Translocation and fate of amino triazole in plants. *Weeds* 5 (1). 1957, 5-11.
- Rohrbaugh, L. M., and Rice, E. L.:** Relation of potassium deficiency to the movement of 2,4-D in tomato plants. *Plant Physiol., Lancaster*, 31. 1956, Suppl. p. XVI (Abstr.).
- Rojas Garciduenas, M., y Kommedahl, T.:** Efectos del acido 2, 4-diclorofenoxyiacetico en la histologia de la soja (*Soja max (L.) Piper*). *Ciencia (Mexico)* 16 (7/8). 1956, 143-146.
- Roth, W.:** Étude comparée de la réaction du maïs et du blé à la Simazine, substance herbicide. *Compt. rend. Acad. Sci. USSR* 245. 1957, 942-944.
- Roubert, J.:** Action de quelques pesticides viticoles récents sur la fermentation alcoolique. *Compt. rend. Acad. Agric. France* 40. 1954, 486-487.
- Runeckles, V. C., and Porter, H. K.:** Some effects of 2,4-dinitrophenol on the carbohydrate metabolism of tobacco leaf disks. *Biochem. J., Cambridge*, 59. 1955, xxiii.

- Salunkhe, D. K., Wittwer, S. H., Wheeler, E. J., and Dexter, S. T.:** The influence of a pre-harvest foliar spray of maleic hydrazide on the specific gravity of potatoes and the quality of potato ships. *Food Res.* 18. 1953, 191-196. — *Chem. Zentralbl.* 125. 1954, 7730.
- Samborski, D. J., and Shaw, M.:** The physiology of host-parasite relations. IX A. The effect of maleic hydrazide on the carbohydrate, nitrogen, and free amino acid content of the first leaf of Khapli wheat. *Canad. J. Bot.* 35. 1957, 457-461.
- Sanchez, E. O.:** Efectos de tres insecticidas sobre los procesos de amonificación y nitrificación en el suelo y sobre la nodulación de los leguminosas. *Acta Agron. (Palmira)* 4. 1954, 219-238.
- Santa Maria, H. C., y Garese, P.:** Nueva técnica de aplicación de insecticidas clorados. I. Incorporación del hexachlorociclohexano a los jugos celulares de las plantas, de **Santa Maria, H. C.**, p. 6-20; II. Reacción de la planta al hexachlorociclohexano, de **Garese, P.**, p. 21-38. *La Plata Univ. Nac. Fac. Agron., Lab. Zool., Agr., Bol.* 11 (1949). 1950, 5-38.
- Santelmann, P. W., and Willard, C. J.:** Absorption and translocation of Dalapon (herbicide). *Proc. 9. ann. Meetg. northeast. Weed Control Conf.* 1955, 21-29.
- Scholes, M. E.:** The effects of aldrin, dieldrin, isodrin, endrin and DDT on mitosis in roots of the onion (*Allium cepa* L.). *J. hort. Sci., London*, 30. 1955, 181-187.
- Scholes, M. E.:** The effects of chlordane and toxaphene on mitosis in roots of the onion (*Allium cepa* L.). *J. hort. Sci., London*, 30. 1955, 12-24.
- Scholes, M. E.:** The effect of hexachlorocyclohexane on mitosis in roots of the onion (*Allium cepa* L.) and strawberry (*Fragaria vesca*). *J. hort. Sci., London*, 28. 1953, 49-68.
- Schreiber, M. M.:** Evaluation of herbicidal materials and their effects on the yield and botanical composition of forage legumes, with special reference to control of yellow rocket (*Barbarea vulgaris*). *Diss. Abstr.* 15. 1955, 8-9.
- Schreiber, M. M., and Fertig, S. N.:** Second year effects of various herbicides on the yield and botanical composition of (mixed forage) legumes. *Proc. 9. ann. Meetg. northeast. Weed Control Conf.* 1955, 313-323.
- Schuster, W.:** Über Wuchsstoffbehandlungen (2,4-D und NES) und deren Nachwirkungen in der folgenden Generation bei Sonnenblumen (*H. annuus* L.). *Naturwissenschaften* 42. 1955, 587-588.
- Schuster, W.:** Untersuchungen über die Wirkung der 2,4-Dichlorphenoxyessigsäure (2,4-D) und α -Naphthylethylsäure (NES) auf die Blüte und den Samen der Sonnenblume sowie die Nachwirkungen in den folgenden Generationen. *Züchter* 26. 1956, 78-83.
- Sellke, K.:** Über die Tiefenwirkung der modernen Insektenbekämpfungsmittel. *Nachr.bl. dtsh. Pfl.schutzd., Berlin*, 4. 1950, 221-227.
- Seshachar, B. R., and Nambiar, P. K.:** Effects of carbon tetrachloride on mitosis. (In plants.) *Nature, London*, 176. 1955, 796.
- Sharples, G. C., Hilgeman, R. H., and Milne, R. L.:** The relation of cluster thinning and trunk girdling of Cardinal grapes to yield and quality of fruit in Arizona. *Proc. amer. Soc. hort. Sci.* 66. 1955, 225-233.
- Shaw, J. G., and Lopez, D. F.:** Ethylene dibromide as a fumigant for mangoes infested with the Mexican fruit fly. *J. econ. Ent.* 47. 1954, 891-893.
- Shrift, A.:** Sulfur-selenium antagonism. I. Antimetabolite action of selenate on the growth of *Chlorella vulgaris*. *Amer. J. Bot.* 41. 1954, 223-230.

- Shrift, A.:** Sulfur-selenium antagonism. II. Antimetabolite action of seleno-methionine on the growth of *Chlorella vulgaris*. Amer. J. Bot. 41. 1954, 345-352.
- Sijpesteijn, A. K., and Van der Kerk, G. J. M.:** Investigations on organic fungicides. X. Pyruvic acid accumulation and its relation to the phenomenon of inversion growth as effected by sodium dimethyldithiocarbamate. Biochim., biophys. Acta 19. 1956, 280-288.
- Sisler, H. D., and Cox, C. E.:** Effects of tetramethylthiuram disulphide on anaerobic breakdown of glucose by brewers yeast. Amer. J. Bot. 42. 1955, 351-356.
- Sites, J. W., Thompson, W. L., and Reitz, H. J.:** A comparison of parathion and oil sprays in regard to their effect on the internal quality of citrus fruits. Citrus Mag. 12 (8). 1950, 30-33.
- Skinner, J. C.:** The effect of maleic hydrazide on the sucrose content of sugarcane. Queensland Bur. Sugar Exp. Stat. Techn. Commun. 1. 1956, 11 p.
- Smith, F. F., and Clifford, P. A.:** Translocation of parathion from foliage applications. J. econ. Ent. 43. 1950, 708-712.
- Sorensen, L. O.:** Effects of maleic hydrazide on photosynthesis and respiration of red kidney bean. Diss. Abstr. 16. 1956, 1569.
- Spoon, W.:** Der Einfluß von Systeminsektiziden auf die Kakaobohne. (Orig. holl.) Bergcultures, Batavia, 23. 1954, 455, 457. — Voeding 15. 1954, 67-73. — Chem. Zentralbl. 125. 1954, 11279.
- Starnes, O.:** Absorption and translocation of insecticides through the root system of plants. J. econ. Ent. 43. 1950, 338.
- Stein, L. H., Alper, T., and Anderssen, E. E.:** The movement of a radio-phosphorus-labelled insecticide in ground nut plants. J. Sci. Food, Agric., London, 3. 1952, 31-37. — Chem. Zentralbl. 123. 1952, 5595.
- Stein, L. H., and Smith, A. J.:** Uptake and degradation of labelled systemic insecticides. II. Treatment of tobacco and potatoes with Systox. III. Estimation of the more toxic degradation products of Systox. J. south afr. chem. Inst., Cape Town, (n. s.) 7. 1954, 114-124.
- Stewart, W. S., Hield, H. Z., and Brannaman, B. L.:** Effects of 2,4-D and related substances on fruit-drop, yield, size, and quality of Valencia oranges. Hilgardia, Berkeley, 21. 1952, 301-329.
- Stewart, W. S., Klotz, L. J., and Hield, H. Z.:** Effects of 2,4-D and related substances on fruit-drop, yield, size and quality of Washington navel oranges. Hilgardia, Berkeley, 21. 1951, 161-193.
- Stoll, K.:** Über die Wirkung von „Wofatox“ auf Pollen und die Narbe der Rapsblüte. Nachr.bl. dtsh. Pfl.schutzd., Berlin, N. F. 7. 1953, 21-32. — Mitt. Biol. Zentralanst. H. 75. 1953, 247-250.
- Stout, M.:** Effect of pre-harvest foliage sprays of maleic hydrazide in sugar-beets. Proc. amer. Soc. Sugar Beet Technol. 1952, 95-100.
- Strache, F.:** Der Einfluß der Methylbromid-Begasung auf Apfelsinen. (Rückstände.) Dtsch. Lebensm.-Rundschaу, Nürnberg, 52. 1956, 191-195.
- Sur, S. K., and Bhattacharyya, S. K.:** Effects of fumigation on chemical composition and germinating properties of whole wheat. J. Inst. Chemists (India) 26. 1954, 110-116.
- Swanson, C. R., Hendricks, S. B., Toole, V. K., and Hagen, C. E.:** Effect of 2,4-dichlorophenoxyacetic acid and other growth-regulators on the formation of a red pigment in Jerusalem artichoke tuber tissue. Plant Physiol., Lancaster, 31. 1956, 315-316.
- Swanson, C. R., and Shaw, W. C.:** Effect of 2,4-dichlorophenoxyacetic acid on the hydrocyanic acid and nitrate content of Sudan grass. Agron. J., Washington, 46. 1954, 418-421.

- Swanson, C. R., Shaw, W. C., and Hughes, J. H.:** The effects of isopropyl N-(3-chlorophenyl) carbamate and an alkanolamine salt of dinitro ortho secondary butyl phenol on the germination, root elongation and roottip respiration of cotton seed. Proc. south. Weed Conf. 6. 1953, 32 (Abstr.).
- Swart-Füchtbauer, H.:** Beobachtungen über die Inaktivierung von „Systox“ in Crassulaceen. Höfchen-Briefe, Leverkusen, 8. 1955, 263-268.
- Swietochowski, B., and Sienkiewicz, J.:** Influence of weed-killers on baking value of wheat and rye. Roczn. Nauk roln., Kraków, 68 A. 1954, 627-634.
- Switzer, C. M.:** Effects of herbicides and related chemicals on oxidation and phosphorylation by isolated soybean mitochondria. Plant Physiol., Lancaster, 32 (1). 1957, 42-44.
- Taylor, O. C., and Mitchell, A. E.:** Soluble solids, total solids, sugar content and weight of the fruit of the sour cherry (*Prunus cerasus*) as affected by pesticide chemicals and time of harvest. Proc. amer. Soc. hortic. Sci. 68. 1956, 124-130. — Bull. signal., Paris, 18. 1957, 2844.
- Terman, G. L., Plummer jr., B. E., and Folsom, D.:** Some effects of arsenical vine killers on potatoes and oats. Maine agric. Exp. Stat. Bull. 501. 1952, 11 p.
- Teskey, B. J. E., and Francis, F. J.:** Color changes in skin and flesh of stored McIntosh apples sprayed with 2,4,5-trichlorophenoxypropionic acid. Proc. amer. Soc. hortic. Sci. 63. 1954, 220-224.
- Thomas, W. D. E.:** The behaviour of systemic insecticides in plants: a survey of results obtained with ³²P-labelled Schradan and Demeton-S. J. Sci. Food, Agric., London, 7. 1956, 565-573. — Bull. signal., Paris, 18. 1957, 1075.
- Thomas, W. D. E., and Bennett, S. H.:** The absorption, translocation and breakdown of Schradan applied to leaves, using ³²P-labelled material. III. Translocation and breakdown. Ann. appl. Biol. 41. 1954, 501.
- Thomas, W. D. E., Bennett, S. H., and Lloyd-Jones, C. P.:** The absorption, breakdown and systemic behaviour in plants of ³²P-labelled Demeton-S. Ann. appl. Biol. 43. 1955, 569-593.
- Thorne, G. N.:** The effect of organophosphorus insecticidal sprays on the growth and phosphorus content of brussels sprouts. Ann. appl. Biol. 44. 1956, 499-505.
- Tibbitts, T. W., and Holm, L. G.:** Accumulation and distribution of TCA in plant tissues. Weeds 3. 1954, 146-151.
- Tibbitts, T. W., and Holm, L. G.:** Physiological studies on the behavior of TCA in vegetable crops and soils. Proc. north centr. Weed Control Conf. 9. 1952, 76-77.
- Tietz, H.:** Metasystox-Rückstandsuntersuchungen 1956. Höfchen-Briefe, Leverkusen, 9. 1956, 286-288.
- Tietz, H.:** Der mit ³²P-markierte Diäthylthio-phosphorsäureester des β -Oxäthylthio-äthyläthers (Wirkstoff des systemischen Insektizids „Systox“), seine Aufnahme in die höhere Pflanze und sein Wanderungsvermögen. Höfchen-Briefe, Leverkusen, 7. 1954, 1-56. — Chem. Zentralbl. 126. 1955, 6782.
- Tsitovich, I. K.:** Biochemical basis of the selective action of 2,4-dichlorophenoxyacetic acid on dicotyledonous and grassy plants. Dokl. Akad. Nauk SSSR. 100. 1955, 587-590.
- Turrell, F. M., and Chervenak, M. B.:** Metabolic products of elemental sulfur 35 applied to lemons as an insecticide. Advances Chem. Ser. 1. 1950, 250-259.
- Turrell, F. M., and Chervenak, M. B.:** Metabolism of radioactive elemental sulfur applied to lemons as an insecticide. Bot. Gaz., Chicago, 111. 1949, 109-122. — Bull. analyt., Paris, 12. 1951, 274.

- Turrell, F. M., and Scott, F. M.:** Effect of elemental sulfur dust on growth of citrus leaves and its relation to the buffer capacity of the leaf-tissue fluid. *Amer. J. Bot.* 38. 1951, 560-566.
- Ueshima, T., Hashizume, B., and Yamashina, H.:** Studies on the application of organic phosphorous insecticides. I. Penetration, translocation and decomposition of parathion emulsion in the rice plant. (Orig. jap.) *Oyo-Kontyu* (Nippon Soc. appl. Ent.), Tokyo, 9. 1954, 157-161.
- Unterstenhöfer, G.:** Über den gegenwärtigen Stand der inneren Therapie der Pflanze. *Ztschr. Pfl.krankh.* 57. 1950, 272-283.
- Uota, M.:** Effect of temperature and ethylene on evolution of carbon dioxide, ethylene, and other oxidizable volatiles from three varieties of plum. *Proc. amer. Soc. hortic. Sci.* 65. 1955, 231-243.
- Uota, M., and Dewey, D. H.:** The respiration and volatile emanation of Bartlett pears as influenced by post-harvest treatment with ethylene and 2, 4, 5-T. *Proc. amer. Soc. hortic. Sci.* 61. 1953, 257-264.
- Van Norman, R. W.:** Effect of maleic hydrazide on photosynthesis and other cellular activities. *Plant Physiol., Lancaster*, 32. 1957, X/VIII (Suppl.).
- Van Raalte, M. H.:** A test for the translocation of fungicides through plant tissues. III. *Congr. int. Phytopharm., Paris*, 1952, vol. 2. 1954, 76-78.
- Vernon, L. P.:** Translocation in soya-bean plants. *Iowa State Coll. J. Sci.* 27. 1953, 267-268.
- Vidal, J. L.:** Sur l'absorption de solutions salines par les feuilles de la vigne. (Bordeaux mixture and copper compounds.) *Compt. rend. Acad. Agric. France* 39. 1953, 273-281.
- Vittoria, A.:** Effect of treatments with benzene hexachloride on forage plants. (Orig. ital.) *Boll. Soc. ital. Biol. sperim., Napoli*, 24. 1953, 463-465.
- Vittoria, A.:** Research and critical notes on the effect of benzene hexachloride on the peach in the concept of semiquantitative cytochemistry, schermatura and functional ideoblasts. (Orig. ital.) *Delpinoa* (n. s.) 6. 1953, 5-61.
- Vittoria, A.:** Treatment with benzene hexachloride and introduction to a concept of „semiquantitative“ cytochemical analysis of total ascorbic acid. (Orig. ital.) *Boll. Soc. ital. Biol. sperim., Napoli*, 23. 1953, 461-463.
- Voigt, G. K.:** Effect of fungicides, herbicides, and insecticides on the accumulation of phosphorus by *Pinus radiata* as determined by the use of ³²P. *Agron. J., Washington*, 46. 1954, 511-513.
- Vrijhof, B.:** Once more: artificial coloring of apples. Effects of spraying on apples. (Orig. holl.) *Fruittelt, Arnhem*, 42. 1952, 641.
- Wäckers, R. W.:** Pflanzenphysiologische Wirkung des systemischen Insektizids „Systox“ (Diäthyl-thionophosphorsäureester des β -Oxäthyl-thioäthyläthers). *Höfchen-Briefe, Leverkusen*, 8. 1955, 269-328.
- Wain, R. L.:** Selektive Unkrautbekämpfung mit MCPB. (Umwandlung in der Pflanze, MCPA und 2,4-D.) *Agriculture, Montréal*, 63. 1957, 575-579.
- Walrave, J.:** Untersuchungen über den Transport von systemischen Insektiziden. (Orig. holl.) *Tijdschr. Plantenziekten* 60. 1954, 205-220.
- Ward, J., and Burt, P. E.:** The persistence and fate of DDT on foliage. II. Comparative rates of loss of DDT deposits from glass plates and growing leaves. *Bull. ent. Res.* 46. 1955, 849-868. — *Bull. signal., Paris*, 17. 1956, 1843.
- Wasp, M. P., and McMahon, J. B.:** The cytological effects of O.M.P.A. *Genetics* 38. 1953, 699.
- Wedding, R. T.:** Systemic insecticides; plant physiological aspects of the use of systemic insecticides. *J. agric., Food Chem., Washington*, 1. 1953, 832-834.

- Wedding, R. T., Hall, B. J., and Lance, E.:** Effects of fruit-setting plant growth regulator sprays on storage qualities of tomato fruits. *Proc. amer. Soc. hort. Sci.* 68. 1956, 459-465.
- Wedding, R. T., and Metcalf, R. L.:** Translocation of radioactive octamethylpyrophosphoramidate in Black Valentine bean plants. *Bot. Gaz., Chicago*, 114. 1952, 180-189.
- Wedding, R. T., and Metcalf, R. L.:** Translocation of systemic insecticides measured by radioactive tracers. *Citrus Leaves* 33. 1953, 22, 24. — *Calif. Citrogr.* 38. 1953, 138, 140, 142. — *Chem. Zentralbl.* 125. 1954, 868.
- Weinstein, L. H., Meiss, A. M., Uhler, R. L., and Purvis, E. R.:** Effect of ethylenediaminetetraacetic acid on nitrogen metabolism and enzyme patterns in soybean plants. *Contrib. Boyce Thompson Inst.* 18. 1956, 357-370.
- Weintraub, R. L., Reinhart, J. H., and Scherff, R. A.:** Role of entry, translocation, and metabolism in specificity of 2,4-D and related compounds. *US Atomic Energy Comm. TID-7512.* 1956, 203-208.
- Weller, L. E., Ball, C. D., Wittwer, S. H., and Sell, H. M.:** Effects of maleic hydrazide on the composition of radishes (*Raphanus sativus*). *Food Res.* 22. 1957, 319-322.
- Whitehead, E. I., Kersten, J., and Jacobsen, D.:** The effect of 2,4-D spray on the nitrate content of sugar-beet and mustard plants. *Proc. South Dakota Acad. Sci.* 35. 1956, 106-110.
- Whitney, J. B., and Dinwiddie, J. G.:** Some effects of maleic hydrazide in young red kidney bean plants. *Proc. Assoc. south. agric. Workers* 51. 1954, 157-158.
- Wiesmann, R., und Gasser, R.:** Untersuchungen über die Leitung von Pyrazoxon in der Pflanze mit Hilfe von radioaktivem Phosphor. *Verh. schweiz. naturforsch. Ges.* 133. 1953, 97.
- Wildon, C. E., Hamner, C. L., and Bass, S. T.:** The effect of 2,4-dichlorophenoxyacetic acid on the accumulation of mineral elements in tobacco plants. *Plant Physiol., Lancaster*, 32. 1957, 243-244.
- Wilson, G.:** The effect of soil applications of benzene hexachloride on C.C.S. (Sugar content of cane.) Queensland Bur. Sugar Exp. Stats. *Cane Growers' Quart. Bull.* 14. 1950, 73-75.
- Winteringham, F. P. W., Harrison, A., Bridges, R. G., and Bridges, P. M.:** The fate of labelled insecticide residues in food products. II. The nature of methyl bromide residues in fumigated wheat. *J. Sci. Food, Agric., London*, 6. 1955, 251-261.
- Witsch, H. v., and Kasperlik, H.:** Effect of 2,4-D on aneurin content of 2,4-D-sensitive and -resistant plants. *Planta* 45. 1955, 264-271.
- Wittwer, S. H., and Hansen, C. M.:** Effect of pre-harvest foliage sprays of maleic hydrazide in sugar-beets. *Proc. amer. Soc. Sugar Beet Technol.* 1952, 90-94.
- Wittwer, S. H., and Sell, H. M.:** Effect of growth regulators on plant composition. In: *Michigan State University of Agriculture and Applied Science; College of Agriculture; Centennial Symposium; Nutrition of Plants, Animals, Man*, p. 32-44 (Ref. East Lansing, 1955).
- Woofter, H. D., and Lamb, C. A.:** Retention and effect of 2,4-dichlorophenoxyacetic acid sprays on winter wheat. *Agron. J., Washington*, 46. 1954, 299-302.
- Wort, D. J.:** The effect of 2,4-D on plant enzymes. *Proc. north. centr. Weed Control Conf.* 9. 1952, 32-34.
- Wort, D. J.:** Influence of herbicides on enzyme systems. (2,4-D.) *Proc. north. centr. Weed Control Conf.* 10. 1953, 6.

- Yakar-Olgun, N.:** Morphological and cytological changes (in plants) caused by p-dichlorobenzene. Istanbul Üniv. Fen Fak. Mecmuası (Rev. Fac. Sci. Univ. Istanbul) 21 (ser. B). 1956, 49-60.
- Yamaguchi, S., and Crafts, A. S.:** Translocation of 2,4-D in *Zebrina pendula* is greatly affected by growth rate. *Plant Physiol.*, Lancaster, 32. 1957, Suppl. p. X-XII.
- Yarwood, C. E., and Jacobson, L.:** Selective absorption of sulphur-35 by fungus-infected leaves. *Nature*, London, 165. 1950, 973-974.
- Yasuda, G. K., Payne, M. G., and Fults, J. L.:** The effect of 2,4-D and maleic hydrazide on potato proteins as shown by paper electrophoresis. *J. Colorado-Wyoming Acad. Sci.* 4 (7). 1955, 52. — *Nature*, London, 176. 1955, 1029-1030.
- Zeid, M. M. I., and Cutkomp, L. K.:** Effects associated with toxicity and plant translocation of three phosphate insecticides. *J. econ. Ent.* 44. 1951, 898-905.
- Ziegler, H.:** Über die physiologischen Grundlagen der Wirkung des Insektizids E 605 auf den pflanzlichen Organismus. *Biol. Zentralbl.* 76 (1). 1957, 43-69.
- Zukel, J. W.:** Effect of some factors on rate of absorption of maleic hydrazide by several plants. *Proc. Weed Control Conf.* 1957, 5.
- Zukel, J. W., Smith, A. E., Stone, G. M., and Davies, M. E.:** Effect of some factors on rate of absorption of maleic hydrazide. *Plant Physiol.*, Lancaster, 31. 1956, Suppl. p. XXI (Abstr.).
- Van der Zweep, W.:** Die Verwendung von chemischen Unkrautbekämpfungsmitteln im Zusammenhang mit ihrem Einfluß auf den Pflanzenwuchs. (Orig. holl.) *Landbouwkdg. Tijdschr.*, Wageningen, 68. 1956, 65-69. — *Chem. Zentralbl.* 128. 1957, 8851.
- Zwintzsch, M.:** Untersuchungen über das Verhalten des Insektizides E 605 auf und in der Pflanze. *Obstbau* 69. 1950, 106.

D) Angaben über Rückstände im Boden, wie Höhe der Rückstände, Metabolismus, Einwirkung auf Bodenflora und -fauna.

- Ackley, W. B., Walker, K. C., and Benson, N. R.:** DDT residues in orchard soils. *Proc. Washington State hort. Assoc.* 46. 1950, 85-88.
- Akamine, E. K.:** Persistence of 2,4-D toxicity in Hawaiian soils. *Bot. Gaz.*, Chicago, 112. 1951, 312-319. — *Chem. Zentralbl.* 123. 1952, 914.
- Albrecht, W. A.:** Weed killers and soil fertility. *Rural New-Yorker* 100. 1950, 818-820.
- Aldrich, R. J.:** Herbicides; residues in soil. *J. agric., Food Chem.*, Washington, 1. 1953, 257-260.
- Alencar, J.:** Effects of 2,4-D on soil microorganisms. (Orig. portug.) *Bol. Agric. Minas Gerais (Brasil) Serv. Prod. veg.* 4 (5/6). 1955, 65-71.
- Allen, N., Walker, R. L., Fife, L. C., Chisholm, R. D., Koblitsky, L., Bullock, J. F., Hodge, C. R., and Hall, E. E.:** Persistence of BHC, DDT and toxaphene in soil and the tolerances of certain crops to their residues. *US Dept. Agric. Techn. Bull.* nr. 1090. 1954, 19 p. — *Bull. analyt.*, Paris, 16. 1955, 1353.
- Allen, T. C.:** Influence of insecticides on soils; NC-19 report. *Proc. ent. Soc. Amer.*, North Centr. States Br., 10. 1955, 14.
- Anderson, G. R., and Baker, G. O.:** Some effects of 2,4-D in representative Idaho soils. *Agron. J.*, Washington, 42. 1950, 456-458.
- Audus, L. J.:** The biological detoxication of 2,4-dichlorophenoxyacetic acid in soil. *Plant and Soil*, The Hague, 2. 1949, 31-36.

- Audus, L. J.:** Biological detoxication of 2,4-dichlorophenoxyacetic acid in soils: isolation of an effective organism. *Nature*, London, 166. 1950, 356. — *Chem. Zentralbl.* 122. 1951, 2900.
- Audus, L. J.:** The decomposition of 2,4-dichlorophenoxyacetic acid and 2-methyl-4-chlorophenoxyacetic acid in the soil. *J. Sci. Food, Agric.*, London, 3. 1952, 268-274.
- Audus, L. J.:** Fate of sodium 2,4-dichlorophenoxy-ethyl-sulphate in the soil. *Nature*, London, 170. 1952, 886-887.
- Audus, L. J., and Symonds, K. V.:** Further studies on the breakdown of 2,4-dichlorophenoxyacetic acid by a soil bacterium. *Ann. appl. Biol.* 42. 1955, 174-182.
- Bambergers, K., und Lieldiens, R.:** Absorption von Zink und Kupfer durch den Boden und deren Gehalt in Pflanzen in Beziehung auf Zusammensetzung und Fruchtbarkeit des Bodens. (Orig. lettisch, russ. Zusammenfassung.) *Latv. PSR Zinatnu Akad. Vestis*, Riga, 7(36). 1950, 113-124.
- Baring, H. H.:** Die Wirkung insektizider Ganzflächenbehandlung auf die Mesofauna des Ackerbodens. *Mitt. Biol. Bundesanst., Berlin-Dahlem*, H. 85. 1956, 60-65. — *Bull. signal.*, Paris, 17. 1956, 2874.
- Barlow, F., and Hadaway, A. B.:** Studies on aqueous suspensions of insecticides. V. The sorption of insecticides by soils. *Bull. ent. Res.* 46. 1955, 547-559. — *Bull. signal.*, Paris, 17. 1956, 1264.
- Barret, A., et Bidan, P.:** Influence de l'apport d'arsenic sur l'activité microbienne du sol. *Ann. Agron.*, Paris, n. ser. 1. 1950, 21-25.
- Baynard, R. E., Rahn, E. M., and Somers, G. F.:** Persistence and penetration of 3-(p-chlorophenyl)-1,1-dimethylurea (CMU) in asparagus soils. *Proc. Weed Control Conf.* 1957, 23.
- Bershova, O. I.:** Influence de hexachlorocyclohexane sur les bactéries du sol. *Mikrobiologija*, Moskwa, 14 (4). 1952, 6-23. — *Bull. analyt.*, Paris, 15. 1954, 1805.
- Birk, L. A.:** Penetration of and persistence in soil of the herbicide 3-(p-chlorophenyl)-1,1-dimethylurea (CMU). *Canad. J. agric. Sci.*, Ottawa, 35. 1955, 377-387. — *Bull. signal.*, Paris, 17. 1956, 727.
- Bollen, W. B., Morrison, H. E., and Crowell, H. H.:** Effect of field and laboratory treatments with BHC and DDT on nitrogen transformations and soil respiration. *J. econ. Ent.* 47. 1954, 307-312.
- Bollen, W. B., Morrison, H. E., and Crowell, H. H.:** Effect of field treatments of insecticides on numbers of bacteria, *Streptomyces* and molds in the soil. *J. econ. Ent.* 47. 1954, 302-306.
- Borchardt, G.:** Vergiften wir den Boden? Über den Einfluß von Pflanzenschutzmitteln auf die Bodenfruchtbarkeit. *Hannov. land-, forstw. Ztg.* 108. 1955, 599-600.
- Bornebusch, C. H.:** Wirkung von Insektengiften auf die Bodenfauna. (Orig. dän.) *Dansk. Skovforen. Tidsskr.* 36. 1951, 355-364.
- Boswell, V. R.:** Insecticides and the soil. *Atlantic Nat.* 8. 1953, 246-251.
- Boswell, V. R., Clore, W. J., Pepper, B. B., Taylor, C. B., Gilmer, P. M., and Carter, R. L.:** Effects of certain insecticides in soil on crop plants. *US Dept. Agric. Techn. Bull.* nr. 1121. 1955, 59 p. — *Bull. signal.*, Paris, 17. 1956, 1268.
- Bouillenne, R., et Bouillenne-Walrand, M.:** Influence des impuretés contenues dans les hormones de synthèse (qualité technique) sur la croissance d'organismes végétaux inférieurs. *Bull. Acad. R. Belg., Cl. Sci.*, Bruxelles, (ser. 5), 38. 1952, 787-815.
- Brown, A. L.:** Effect of several insecticides on ammonification and nitrification in two neutral alluvial soils. *Proc. Soil Sci. Soc. Amer.* 18. 1954, 417-420. — *Chem. Zentralbl.* 126. 1955, 7762.

- Burdine, H. W., Ruf, R. H., and Raleigh, G. J.:** Effect of varying rates of chloro-IPC (isopropyl N-chlorophenyl-carbamate) for onion weed control on subsequent growth of rye and oats. Proc. amer. Soc. hortic. Sci. 52. Ann. Meetg., East Lansing, 1955, 36-37.
- Carlo, C. P., Ashdown, D., and Heller, V. G.:** The persistence of parathion, toxaphene and methoxychlor in soil. Oklahoma agric. Exp. Stat. Techn. Bull. T-42. 1952, 11 p.
- Chisholm, R. D., and Koblitsky, L.:** Testing soils for insecticide residues. Agric. Chem., Baltimore, 7(2). 1952, 47, 49, 119.
- Chisholm, R. D., Koblitsky, L., Fahey, J. E., and Westlake, W. E.:** DDT residues in soil. J. econ. Ent. 43. 1950, 941-942.
- Chisholm, D., MacPhee, A. W., and MacEachern, C. R.:** Effects of repeated applications of pesticides to soil. Canad. J. agric. Sci., Ottawa, 35. 1955, 433-439. — Chem. Zentralbl. 127. 1956, 13536.
- Ciferri, F.:** Persistence of parathion in soil: its effect on lettuce. (Orig. ital.) Not. Mal. Piante nr. 26. 1954, 15-18.
- Clark, F. E.:** Changes induced in soil by ethylene oxide sterilization. Soil Sci. 70. 1950, 345-349.
- Clore, W. J., und Klostermayer, E. C.:** Der Einfluß gewisser Insektizide im Boden auf das Pflanzenwachstum. Proc. Washington State hortic. Assoc. 1950, 176. — Chem. Zentralbl. 122. 1951, 2. Halbj., S. 2654.
- Colmer, A. R.:** The action of 2,4-D upon the Azotobacter of some sugar soils. Proc. south. Weed Conf. 6. 1953, 62 (Abstr.).
- Colmer, A. R.:** Effect of herbicides upon soil microflora as determined by soil plaques. Bact. Proc. Soc. amer. Bacteriologists 53. 1953, 16.
- Colmer, A. R.:** The use of plaques to gauge the effect of some herbicides upon the microflora of the soil. Proc. south. Weed Conf. 7. 1954, 237.
- Ccury, T., und Ranzani, G.:** Arsenate und organische Insektizide auf Baumwolle in rotem und sandigem Boden. (Orig. portug., engl. Zusammenfassung.) Ann. Esc. sup. Agric. „Luiz de Queiroz“, Piracicaba, 10. 1953, 37-46.
- Czerwinska, E., and Kowalik, R.:** The influence of ethylenebisdithiocarbamates („Zineb“ and „Nabam“) on some Fungi imperfecti and on nitrogen-fixing bacteria. (Orig. poln.) Acta Microbiol. Polon. 4. 1955, 141-151.
- Da Cruz-Paixao, J., and Dobereiner, J.:** Action of 2,4-D (amine) on microorganisms of various types of soils. (Orig. portug.) Portug. Acta biol., Lisboa, 4. 1955, 243-248.
- D'Aguilar, J.:** Remarques sur l'action toxique persistante de l'hexachlorocyclohexane dans le sol Compt. rend. Acad. Sci., Paris, 231. 1950, 1352-1354.
- Danielson, L. L.:** The crop toxicity period of CMU in a sandy clay loam soil. Weeds 4. 1956, 255-263.
- Danielson, L. L., and Easley, L. W.:** Progress report on the crop toxicity period of CMU in a sandy loam soil. Proc. north east. Weed Control Conf. 7. 1953, 11-15.
- Darsie jr., R. F., and Cannon, F. D.:** Resistance of Delaware salt-marsh mosquito larvae to DDT including data on residue accumulations in marsh soil. Proc. New Jersey Mosquito Extermin. Assoc. 39. 1952, 169-175.
- Davis, F. L., and Selman, F. L.:** Effects of water upon the movement of dinitro weed killers in soils. Weeds 3. 1954, 11-20.
- Davis, F. L., Selman, F. L., and Davis, D. E.:** Some factors affecting the behavior of dinitro herbicides in soils. Proc. south. Weed Conf. 7. 1954, 205-207.
- De Bruin, H. P.:** Is het gebruik van arsenieten bij het doodspuiten van aardappel-loof verontrustend? Landbouw-Voorlichting, 's-Gravenhage, 14. 1957, 285-292.

- Do Amaral, S. F.:** Die Wirkung insektizider Rückstände im Torfboden — Ergebnisse eines Feldversuches. (Orig. portug.) *Biológico*, São Paulo, 17. 1951, 209-214.
- Dobereiner, J., and da Cruz-Paixao, J.:** Action of the selective herbicides Agroxone, Ervaxone and Diphenox A on soil microflora. *Portug. Acta biol.*, Lisboa, 4. 1955, 264-271.
- Douros, J. D., and Reid, J. J.:** Decomposition of certain herbicides by soil microflora. *Bacteriol. Proc.* 1956, 23-24. — *Bull. signal.*, Paris, 17. 1956, 2876.
- Duda, J., und Pedziwilk, F.:** Die Wirkung von 2,4-D und Dinitrokresol auf den Mikroorganismus des Bodens. (Orig. poln., engl. Zusammenfassung.) *Acta Microbiol. Polon.* 1. 1952, 193-204.
- Eastman, J. D., Lynn, G. E., and Barrons, K. C.:** A progress report on the vaporization of dinitro-o-sec-butylphenol from paper and soil. *Proc. northeast. Weed Control Conf.* 7(Suppl.). 1953, 75-79.
- Embleton, T. W., and Boynton, D.:** Some effects of spray residues on the pH and the basic cations of the soil in north-eastern McIntosh apple orchards. *Proc. Soil Sci. Soc. Amer.* 1949 (14). 1950, 105-109.
- Eno, C. F., Thornton, G. D., and Smith, F. B.:** Effect of certain insecticides on microbiological action in soils. *Florida agric. Exp. Stat. Ann. Rept.* 1956, 132.
- Evans, W. C., und Moss, P.:** Die Umwandlung des Herbicides p-Chlorphenoxyessigsäure durch einen Bodenmikroorganismus. *Biochem. J., Cambridge*, 65. 1957, 8 p. — *Chem. Zentralbl.* 128. 1957, 7684.
- Fleming, W. E.:** Persistence of effect of DDT on Japanese beetle (*Popillia japonica*) larvae in New Jersey soils. *J. econ. Ent.* 43. 1950, 87-89.
- Fleming, W. E., Coles, L. W., and Maines, W. W.:** Biological assay of residues of DDT and chlordane in soil using *Macrocentrus ancylicivorus* as a test insect. *J. econ. Ent.* 44. 1951, 310-315.
- Fleming, W. E., and Maines, W. W.:** Persistence of chlordane in soils of the area infested by the Japanese beetle (*Popillia japonica*). *J. econ. Ent.* 47. 1954, 165-169. — *Chem. Zentralbl.* 127. 1956, 1138.
- Fleming, W. E., and Maines, W. W.:** Persistence of DDT in soils of the area infested by the Japanese beetle (*Popillia japonica*). *J. econ. Ent.* 46. 1953, 445-449.
- Fleming, W. E., Maines, W. W., and Coles, L. W.:** Persistence of chlorinated hydrocarbon insecticides in turf treated to control the Japanese beetle. *US Bur. Ent., Plant Quar., Washington*, E-829. 1951, 1-6.
- Fletcher, D. W., and Bollen, W. B.:** The effect of aldrin on soil microorganisms and some of their activities related to soil fertility. *Appl. Microbiol.* 2. 1954, 349-354.
- Fletcher, W. W.:** Effect of hormone herbicides on the growth of *Rhizobium trifolii*. *Nature, London*, 177. 1956, 1244.
- Fletcher, W. W., and Raymond, J. C.:** Toxicity and breakdown of „hormone“ herbicides. *Nature, London*, 178. 1956, 151-152.
- Flieg, O.:** Über das Verhalten von 2,4-D im Boden hinsichtlich mikrobieller Wirkungen, Beweglichkeit und Abbau. *Mitt. Biol. Zentralanst. H.* 74. 1952, 133-135.
- Flieg, O., und Pfaff, C.:** Über Wanderung und Abbau der 2,4-D im Boden sowie ihren Einfluß auf mikrobiologische Umsetzungen. *Landw. Forsch., Darmstadt*, 3. 1951, 113-123. — *Chem. Zentralbl.* 124. 1953, 4591.
- Foster, A. A., Cairns, E. F., and Hopper, B.:** Modifications in soils of southern pine nurseries produced by fungicidal and nematocidal chemicals. (Fungus disease and nematode control.) *Phytopathology* 46. 1956, 12.
- Foster, A. C.:** Some plant responses to certain insecticides in the soil. *US Dept. Agric. Cir.* 862. 1951, 1-41.

- Foster, A. C.:** The stability, persistence and effects on plant growth of some of the new insecticides in soils. Proc. Assoc. south. agric. Workers 48. 1951, 68-69 (Abstr.).
- Foster, A. C., Boswell, V. R., Chisholm, R. D., Carter, R. H., Gilpin, G. L., Pepper, B. B., Anderson, W. S., and Gieger, M.:** Some effects of insecticide spray accumulations in soil on crop plants. Techn. Bull. 1149. 1956, 36 p.
- Fränck, O.:** Effect of fertilisers on hormone-treated land. Medd. Statens Jordbr. Försök. 153. nr. 44, 16 p. — Soils and Fertil., Harpenden, 16. 1953, 389.
- Freiberg, S. R., and Clark, H. E.:** Changes in nitrogen fractions and proteolytic enzymes of soybean plants treated with 2,4-dichlorophenoxyacetic acid. Plant Physiol., Lancaster, 30. 1955, 39-46.
- Gamble, S. J. R., Mayhew, C. J., and Chappell, W. E.:** Respiration rates and plate counts for determining effect of herbicides on heterotrophic soil microorganisms. Soil Sci. 74. 1952, 347-350. — Chem. Zentralbl. 126. 1955, 4680.
- Ginsburg, J. M.:** DDT in apple orchard soils. New Jersey State hortic. Soc. News 35. 1954, 2723.
- Ginsburg, J. M.:** Pesticide residues in soils. Accumulation of DDT in soils from spray practices. J. agric., Food Chem., Washington, 3. 1955, 322-325. — Bull. analyt., Paris, 16. 1955, 3585.
- Ginsburg, J. M.:** Too much DDT in our soils. New Jersey Agric. 36 (4). 1954, 10-11.
- Ginsburg, J. M., and Reed, J. P.:** A survey on DDT-accumulation in soils in relation to different crops. J. econ. Ent. 47. 1954, 467-474.
- Could, E.:** Effects of some spray materials on soils, growth and fauna. Mountaineer Grower 21 (186). 1951, 9-14.
- Could, E.:** The effects of various commercial insecticides, fungicides and other materials on plant and animal life when applied to the soil. Virginia Fruit 39(2). 1951, 81-92.
- Could, E., and Hamstead, E. O.:** The toxicity of cumulative spray residues in soil. J. econ. Ent. 44. 1951, 713-717.
- Gray, P. H. H.:** Effects of benzenehexachloride on soil microorganisms. I. Experiments with autothrophic bacteria. II. Experiments with urea hydrolysing bacteria. Canad. J. Bot. 32. 1954, 1-15. — Chem. Zentralbl. 126. 1955, 8242.
- Gray, P. H. H.:** Effects of benzenehexachloride on soil microorganisms. III. Experiments with heterotrophic bacteria. Appl. Microbiol. 2. 1954, 37-40. — Chem. Zentralbl. 126. 1955, 8242.
- Gray, P. H. H., and Rogers, C. G.:** Effects of benzenehexachloride on soil microorganisms. IV. Benzenehexachloride-resistant bacteria from virgin soils. Canad. J. Microbiol. 1. 1955, 312-318.
- Grigor'eva, T. G.:** Effect of benzene hexachloride inserted into the soil on the soil fauna. (Orig. russ.) Dokl. Vsesoiuzn. Akad. Sel'skhoz. Nauk im V. I. Lenina (Proc. Lenin Acad. agric. Sci.) 17 (12). 1952, 16-20.
- Günthart, E., et Bernet, R.:** Le comportement de l'hexachlorocyclohexane dans le sol. III. Congr. int. Phytopharm., Paris, 1952, vol. 2. 1954, 826-829.
- Gundersen, K., and Jensen, H. L.:** Soil bacterium decomposing organic nitro-compounds. Acta agric. Scand., Stockholm, 6. 1956, 100-114.
- Hamilton, D. W.:** Effects on plants and soil. (Insecticides.) Proc. Indian Acad. Sci. 63 (1953). 1954, 190-197.
- Hanson, W. J., and Nex, R. W.:** Diffusion of ethylene dibromide in soils. Soil Sci. 76. 1953, 209-214.

- Harris, V. C.:** Some residual aspects of using DNOSBP and LHO-1 for weed control in cotton for four years on a clay loam soil. Proc. south. Weed Conf. 7. 1954, 105-114.
- Hartley, G. S., and Park, P. O.:** An experimental technique for investigating leaching of herbicides. Proc. brit. Weed Control Conf. 2. 1954, 373-374.
- Harvey, W. A.:** Toxicity of three 2,4-D formulations in California soils. Hilgardia, Berkeley, 21. 1952, 499-513.
- Herbert, J.:** Le sort des antiparasitaires dans le sol et leurs effets secondaires. Ann. Agron., Paris, n. ser. 2. 1951, 127-143.
- Hernandez, T. P., and Warren, G. F.:** Some factors affecting the rate of inactivation and leaching of 2,4-D in different soils. Proc. amer. Soc. hortic. Sci. 56. 1950, 287-293.
- Hill, G. D., McGahen, J. W., Baker, H. M., Finnerty, D. W., und Bingeman, C. W.:** Das Schicksal von substituierten Harnstoffherbiciden in landwirtschaftlich genutzten Böden. Agron. J., Washington, 47. 1955, 93-104. — Chem. Zentralbl. 127. 1956, 8195.
- Hill, G. D., McGahen, J. W., Haun, J. R., and Turner, V. L.:** Factors affecting the disappearance of substituted urea herbicides in agricultural soils. Proc. north centr. Weed Control Conf. 11. 1954, 15-16.
- Hitchcock, B. E.:** Investigations into the micro-fauna of sugar-cane soils and their susceptibility to BHC. Proc. Queensland Soc. Sugar-Cane Technologists 20. 1953, 135-139.
- Hollingsworth, E. B.:** Cotton response to two substituted ureas and CIPC and their persistence and movement in soil. Proc. south. Weed Conf. 8. 1955, 294-304.
- Holstun, J. T., and Loomis, W. E.:** Leaching and decomposition of 2,2-dichloropropionic acid in several Iowa soils. Weeds 4. 1956, 205-217.
- Hoover, M. E., and Colmer, A. R.:** The action of some herbicides on the microflora of sugar-cane soil. Proc. Louisiana Acad. Sci. 26. 1953, 21-27.
- Hoover, M. E., and Colmer, A. R.:** The action of 2,4-D, TCA and sodium chlorate on the microflora of Sharkey Clay. Sugar Bull., Georgetown, 31. 1953, 416-418.
- Horn, G. C.:** The effect of certain insecticides on the flora of Arredondo fine sand. Proc. Soil Sci. Soc. Florida 12. 1952, 62-67.
- Hoy, J. M.:** Toxicity of some hydrocarbon insecticides to earthworms. New Zealand J. Sci., Technol. A 37. 1955, 367-372.
- Iwantschenko, A. W.:** Einfluß der Temperatur auf die Dauer der toxischen Wirkung von Hexachloran. (Beständigkeit im Boden.) (Orig. russ.) Ber. Allun. landw. (Lenin-Orden) Lenin-Akad. 20. 1955, Nr. 6, S. 26-28. — Chem. Zentralbl. 127. 1956, 7918.
- Jameson, H. R., and Peacock, F. C.:** The persistence of crude benzene hexachloride in the soil. J. Sci. Food, Agric., London, 3. 1952, 78-82.
- Jensen, H. L., and Petersen, H. I.:** Detoxication of hormone herbicides by soil bacteria. Nature, London, 180. 1952, 39-40. — Chem. Zentralbl. 124. 1953, 3425.
- Johnson, E. J., and Colmer, A. R.:** The effect of herbicides on soil microorganisms. I-II. Appl. Microbiol. 3. 1955, 123-128.
- Johnson, E. J., and Colmer, A. R.:** The effect of 2,4-dichlorophenoxyacetic acid upon the nitrogen metabolism of some soil bacteria. Proc. south. Weed Conf. 8. 1955, 305.
- Johnson, E. J., and Colmer, A. R.:** Relationship between magnesium and the physiological effects of 2,4-dichlorophenoxyacetic acid on *Azobacter vine-landii* and *Rhizobium meliloti*. J. Bact., Baltimore, 73. 1957, 139-143.

- Johnson, M. K., Magee, L. A., and Colmer, A. R.:** Some factors affecting the respiratory response of *Azotobacter* to 2,4-D and related compounds. *Appl. Microbiol.* 4. 1956, 109-113.
- Jones, L. W.:** Are insecticides toxic to soil microorganisms? *Farm, Home Sci. (Utah Stat.)* 11. 1950, 58-59.
- Jones, L. W.:** Stability of chlordane and its effect on microbial activities of soil. *Proc. Utah Acad. Sci. Arts, Let.* 32. 1954-55, 201-202 (Abstr.).
- Jones, L. W.:** Stability of DDT and its effect on microbial activities of soil. *Soil Sci.* 73. 1952, 237-241. — *Chem. Zentralbl.* 124. 1953, 6962.
- Kämpf, R., and Wagner, M.:** Untersuchungen über den Einfluß von Pflanzenschutzmitteln auf die Bodenkrümelung. *Ztschr. Pfl.bau, -schutz* 3. 1952, 247-253.
- Karg, W.:** Untersuchungen über die Wirkung der Hexa-Behandlung landwirtschaftlich genutzter Sandböden und Wiesenböden auf die Mesofauna, insbesondere auf Collembolen. *Nachr.bl. dtsh. Pfl.schutzd., Berlin, N. F.* 10. 1956, 117-120.
- Kasting, R., and Woodward, J. C.:** Persistence and toxicity of parathion when added to the soil. (Toxicity to orchards cover crops and soil microorganisms) *Sci. Agric., Ottawa*, 31. 1951, 1333-1338. — *Chem. Zentralbl.* 123. 1952, 1229.
- Keller, H.:** Über die Wirkung einer Bodenbegiftung mittels DDT- und Hexa-Mitteln auf die Kleinarthropoden, insbesondere Collembolen. *Naturwissenschaften* 38. 1951, 480-481.
- Keyser, H. R.:** Retention of high rates of 2,4-D in the soil. *Proc. north. centr. Weed Control Conf.* 12. 1955, 30-32.
- Kloke, A.:** Die Anwendung von Pflanzenschutzmitteln und das biologische Gleichgewicht im Boden. *Ztschr. Pfl.ernährg., Düngg., Bodenkunde* 63. 1953, 150-154. — *Chem. Zentralbl.* 126. 1955, 7762.
- Koike, H., and Gainey, P. L.:** Effects of 2,4-D and CADE, singly and in combination, upon nitrate and bacterial content of soils. *Soil Sci.* 74. 1952, 165-172.
- Kratochvil, D. E.:** Determinations of the effect of several herbicides on soil microorganisms. *Weeds* 1. 1951, 25-31.
- Kratochvil, D. E.:** Effect of several herbicides on soil microorganisms. *Proc. Ann. Meetg. north. centr. Weed Control Conf.* 7. 1950, 102-103.
- Krishnamurthi, S., and Srinivasan, K. M.:** Some studies of 2,4-D toxicity in soils in herbicidal concentrations. *Madras agric. J.* 41. 1954, 59-63. — *Chem. Zentralbl.* 126. 1955, 9887.
- Lange, W. H., and Carlson, E. C.:** Zonal dispersion of chemicals in soil following several tillage methods. (Insecticides for soil pest control.) *J. econ. Ent.* 48. 1955, 61-67.
- Leasure, J. K.:** Persistence in the soil of weed control chemicals. *Tennessee Farm, Home Sci. Progr. Rept.* 12. 1954, 4, 10.
- Lembeck, W. J., and Colmer, A. R.:** Aspects of the decomposition and utilisation of maleic hydrazide by bacteria. *Weeds* 5 (1). 1957, 34-39.
- Levi, E., and Crafts, A. S.:** Toxicity of maleic hydrazide in California soils. *Hilgardia, Berkeley*, 21. 1952, 431-463.
- Levi, E., and Crafts, A. S.:** Toxicity of phenyl mercuric compounds in California soils. *Hilgardia, Berkeley*, 21. 1952, 465-485.
- L'Hoste, J., D'Aguiar, J., et Gerard, J. L.:** Considérations sur l'emploi de l'heptachlore utilisé en traitement du sol. *Compt. rend. Acad. Agric. France* 42. 1956, 784-788. — *Bull. signal., Paris*, 18. 1957, 1755.
- Lindgren, D. L., Anderson, L. D., and Frost, M. H.:** Effects of pesticides in soils; field experiments conducted in coordinated study of effects of insecticide absorption by the soil. *Calif. Agric., Berkeley*, 8 (3). 1954, 9-10.

- Lindgren, D. L., Anderson, L. D., and Frost, M. H.:** Effect of pesticides in soils; results of insecticide absorption by the soil is subject of field and greenhouse studies. *Calif. Agric., Berkeley*, 8 (4). 1954, 13-14.
- Loustalot, A. J.:** Studies on the persistence and movement of sodium trichloroacetate in the soil. *Proc. south. Weed Conf.* 3. 1950, 13-14.
- Loustalot, A. J., and Ferrer, R.:** The effect of some environmental factors on the persistence of sodium pentachlorophenate in the soil. *Proc. amer. Soc. hortic. Sci.* 56. 1950, 294-298.
- Loustalot, A. J., and Ferrer, R.:** Studies on the persistence and movement of sodium trichloroacetate in the soil. *J. amer. Soc. Agron.* 42. 1950, 323-327. — *Chem. Zentralbl.* 122. 1951, 919.
- Loustalot, A. J., Muzik, T. J., and Cruzado, H. J.:** A study of the persistence of CMU in soil. *Agric. Chem., Baltimore*, 8 (11). 1953, 52-53, 97-99, 101. — *Chem. Zentralbl.* 125. 1954, 8198.
- McGahan, J. W., Baker, H. M., Finnerty, D. W., and Bingeman, C. W.:** Fate of substituted urea herbicides in agricultural soils. *Agron. J., Washington*, 47. 1955, 95-104.
- Magee, L. A., and Colmer, A. R.:** The effect of herbicides on soil microorganisms. III. The effect of some herbicides on the respiration of *Azotobacter*. *Appl. Microbiol.* 3. 1955, 288-292.
- Magee, L. A., and Colmer, A. R.:** Some effects of 2,4-dichlorophenoxyacetic acid upon *Azotobacter* as measured by respiration inhibition. *Weeds* 4. 1956, 124-130.
- Martin, J. P., Baines, R. C., and Erwin, J. O.:** Influence of soil fumigation for citrus replants on the fungus population of the soil. *Proc. Soil Sci. Soc. Amer.* 21(2). 1957, 163-166.
- Meadows, M. W., and Smith, O.:** Effect of temperature, organic matter, pH and rates of application on persistence of 2,4-D in soil. *Proc. northeast. States Weed Control Conf.* 3. 1949, 24-29.
- Mitskovski, M.:** L'influence des herbicides 2,4-D et MCPA sur la microflore du sol. (Orig. serbo-kroat.) *Skoplje Univ. Zvezdelsko-Shumarski Fak. God. Zbornik* 6/7. 1952/53-1953/54, 197-216.
- Moje, W., Martin, J. P., and Baines, R. C.:** Structural effect of some organic compounds on soil organisms and citrus seedlings grown in an old citrus soil. *J. agric., Food Chem., Washington*, 5. 1957, 32-36.
- Morita, S., and Aoki, A.:** The effect of 2,4-D on the microbial action in orchard soils. *Saikyo Univ. Fac. agric. Sci. Rept.* 2. 1952, 1-4.
- Morrison, F. O.:** The toxicity of hexachlorocyclohexane to certain micro-organisms, earthworms and arthropods. *Ontario ent. Soc. Ann. Rept.* 80 (1949). 1950, 50-57.
- Muzik, T. J., Loustalot, A. J., and Cruzado, H. J.:** Movement of 2,4-D in soil. *Agron. J., Washington*, 43. 1951, 149-150. — *Chem. Zentralbl.* 122. 1951, 1048.
- Newman, A. S., and Thomas, J. R.:** Decomposition of 2,4-dichlorophenoxyacetic acid in soil and liquid media. *Proc. Soil Sci. Soc. Amer.* 1949 (14). 1950, 160-164.
- Newman, A. S., Thomas, J. R., and Walker, R. L.:** Disappearance of 2,4-dichlorophenoxyacetic acid and 2,4,5-trichlorophenoxyacetic acid from soil. *Proc. Soil Sci. Soc. Amer.* 16. 1952, 21-24.
- Nilsson, P. E.:** The influence of antibiotics and antagonists on symbiotic nitrogen fixation in legume cultures. *Lantbruks-högsk. Ann., Uppsala*, 23. 1957, 219-253.
- Norman, A. G., and Newman, A. S.:** The persistence of herbicides in soils. *Proc. northeast. States Weed Control Conf.* 4. 1950, 7-12.

- Ogle, R. E., and Warren, G. F.:** Activity and fate of herbicides in soils. Proc. north. centr. Weed Control Conf. 10. 1953, 21-22.
- Ordas, E. P.:** Technical problems can be worked out. (Insecticidal residues in soils.) J. agric., Food Chem., Washington, 1. 1953, 875.
- Orth, H.:** Die phytotoxische Wirkung von CIPC in verschiedenen Böden. Summ. Pap. 4th int. Congr. Crop Prot. 1957, 76.
- Otten, R. J., Dawson, J. E., and Schreiber, M. M.:** The effects of several herbicides on nitrification in soil. Proc. Weed Control Conf. 1957, 120-127.
- Otten, R. J., Dawson, J. E., and Schreiber, M. M.:** Persistence and leaching of CDEC and CDAA in soil. Proc. Weed Control Conf. 1957, 111-119.
- Overley, F. L.:** Cover crops in apple orchards on arsenic-toxic soils. Washington agric. Exp. Stat. Bull. 514. 1950, 14 p.
- Overman, A. J., Spencer, E. L., and Kelsheimer, E. G.:** Will recommended insecticidal practices result in toxic residues in the soil? Proc. Florida State hortic. Soc. 67. 1954, 121-122.
- Penton, A.:** The build-up of soil poisons. Organic Gardg. and Farming 1 (10). 1954, 59-61.
- Perssin, S. A.:** Der Einfluß von Hexachloran (GKHTSG) auf die Bodenfruchtbarkeit und den Ertrag landwirtschaftlicher Kulturpflanzen. (Orig. russ.) Dokl. Vsesoiuzn. Akad. Sel'skhoz. Nauk im. V. I. Lenina (Proc. Lenin Acad. agric. Sci.) 19 (4). 1954, 29-31. — Chem. Zentralbl. 126. 1955, 195.
- Petersen, H. J., und Hamarlund, A.:** Versuche über die Zersetzungsgeschwindigkeit verschiedener Unkrautbekämpfungsmittel im Boden. (Orig. dänisch.) Tidskr. Planteavl, København, 56, 1953, 707-711. — Chem. Zentralbl. 125. 1954, 7268.
- Picci, G.:** Die Wirkung von SR-406 (N-Trichlormethylthiotetrahydrophthalimid) auf die Mikroorganismen des Bodens. Italia agric. 56. 1956, 376-382. — Chem. Zentralbl. 128. 1957, 10 858.
- Potter, C., Healy, M. J. R., and Raw, F.:** Chemical control of wireworms (*Agriotes* spp.). I. The direct and residual effects of BHC, DDT, DD and ethylene dibromide. Bull. ent. Res. 46. 1956, 913-923.
- Pray, B. O., and Witman, E. D.:** Comments: On distribution of CIPC in soil. Weeds 2. 1953, 300-301.
- Quastel, J. H., and Scholefield, P. G.:** Arsenite oxidation in soil. Soil Sci. 75. 1953, 279-285.
- Rai, G. S., and Hamner, C. L.:** Persistence of sodium trichloroacetate (TCA) in different soil types. Weeds 2. 1953, 271-279.
- Reed, J. K.:** Insecticides in the soil as determined by bio-assay. Proc. Assoc. south agric. Workers 49. 1952, 87 (Abstr.).
- Reestman, A. J., und Riepma, P.:** Ist die Anwendung von Arsenoxyd als Spritzmittel zur Kartoffelkrautvernichtung ungünstig für den Boden? (Orig. holländ.) Landbouwoorlichting 12. 1955, 68-72.
- Reid, J. J.:** 2, 4-D at usual rates harmless to soil; changed rapidly into other compounds. Pennsylv. agric. Exp. Stat. Bull. 553 (Suppl. 2). 1953, 2.
- Renney, A. J.:** Factors influencing the residual effect of herbicides in soils. Brit. Columbia agron. Assoc. Conf. Rept. 1955, 11-16.
- Repp, G.:** Zur Wirkung von 2, 4-D-Unkrautmitteln auf die Gareorganismen des Ackerbodens. Pflanzenschutzberichte, Wien, 11. 1953, 33-39. — Chem. Zentralbl. 125. 1954, 868.
- Richards, R. F.:** Field studies of the residual effects of several herbicides. Proc. south. Weed Conf. 9. 1956, 154-160.
- Richardson, L. T.:** The persistence of thiram in soil and its relationship to the microbiological balance and damping-off control. Canad. J. Bot. 32. 1954, 335-346. — Chem. Zentralbl. 126. 1955, 3945.

- Richter, G.:** Die Auswirkung von Insektiziden auf die terricole Makrofauna. (Quantitative Untersuchungen begifteter und unbegifteter Waldböden.) Nachr.bl. dtsh. Pfl.schutzd., Berlin, NF. 7. 1953, 61-72.
- Richter, G.:** Untersuchungen über die Stabilität von Hexa-Präparaten in verschiedenen Böden im Hinblick auf die Engerlingsbekämpfung. Nachr.bl. dtsh. Pfl.schutzd., Berlin, N. F. 10. 1956, 7-13.
- Riepma, P.:** The action of DNC in the soil. (Orig. fläm.) Meded. Landbouwhooges., Opzoek.stat. Gent 21. 1956, 619-626.
- Riepma, P., and Calissendorff, C.:** After-effect of DNC in the soil. (Orig. holländ.) Landbouwwoorlichting 13. 1956, 205-208.
- Ripper, W. E.:** Effect of pesticides on balance of arthropod populations. Ann. Rev. Ent. (Calif.) 1. 1956, 403-438. — Bull. signal., Paris, 18. 1957, 155.
- Ripper, W. E.:** The influence of pesticides on the balance of arthropod population. Advanc. Sci. 12. 1956, 455-463. — Bull. signal., Paris, 17. 1956, 2550.
- Roberts, J. E., and Bollen, W. B.:** A microplating method for soil molds and its use to detect some effects of certain insecticides and herbicides. Appl. Microbiol. 3. 1955, 190-194.
- Rogoff, M., and Reid, J. J.:** Persistence of weed control agents and effect on nitrification in field and garden soil. Bact. Proc. Soc. amer. Bacteriologists 52. 1952, 13.
- Ross, H. F.:** Effects of DDT, chlordane and aldrin on nitrification and ammonification in Arredondo fine sand. Proc. Soil Sci. Soc. Florida 12. 1952, 58-61.
- Saldarriaga Vélez, A.:** Influencia de tres insecticidas sobre la población de microorganismos del suelo. [Hexachlorcyclohexan, Chlordan und Toxaphen.] (Engl. Zusammenfassung.) Acta Agron. (Palмира) 4. 1954, 45-67.
- Satchell, J. E.:** The effects of BHC, DDT, and parathion on soil fauna. Soils and Fertil., Harpenden, 18. 1955, 279-285.
- Sazonov, P. V., und Fedorova, I. N.:** Wirkung von DDT und Hexachlorcyclohexan auf Bodenbakterien. (Orig. russ.) Dokl. Vsesoiuzn. Acad. Sel'skhoz. Nauk im V. I. Lenina (Proc. Lenin Acad. agric. Sci.) 17(5). 1952, 39-41.
- Scheffer, F., Welte, E., und Kloke, A.:** Untersuchungen über den Einfluß von Pflanzenschutzmitteln auf Boden und Pflanze. Ztschr. Pfl.ernähr., Düngg., Bodenkunde 56. 1952, 151-171.
- Schmidt, E. L.:** Soil microorganisms and plant growth substances. Soil Sci. 71. 1951, 129-140.
- Schmitt, F.:** Experimentelle Untersuchungen über die Wirkungsdauer von Hexa-Präparaten im Boden. Nachr.bl. dtsh. Pfl.schutzd., Braunschweig, 7. 1955, 117-120. — Chem. Zentralbl. 127. 1956, 2574.
- Schwerdtfeger, F.:** Über die Wirkungsdauer von Hexamitteln bei der Engerlingsbekämpfung. Ztschr. Pfl.krankh. 61. 1954, 9-17. — Bull. analyt., Paris, 16. 1955, 938.
- Sheals, J. G.:** The effects of DDT and BHC on soil Collembola and Acarina. Nottingham Univ. East. School agric. Sci. 2 (Soil Zool.). 1955, 241-252.
- Sheals, J. G.:** Soil population studies. I. The effects of cultivation and treatment with insecticides. Bull. ent. Res. 47. 1956, 803-822. — Bull. signal., Paris, 18. 1957, 1753.
- Sherburne, H. R., and Freed, V. H.:** Soil effects on herbicides; adsorption of 3(p-chlorophenyl)-1,1-dimethylurea as a function of soil constituents. J. agric., Food Chem., Washington, 2. 1954, 937-939.
- Sherburne, H. R., Freed, V. H., and Fang, S. C.:** The use of C 14 carbonyl labelled 3(p-chlorophenyl)-1,1-dimethylurea in a leaching study. Weeds 4. 1956, 50-54.

- Sijpesteijn, A. K.:** The mode of action of sodium dimethyldithiocarbamate and tetramethylthiuram disulphide on *Aspergillus niger*. III. Congr. int. Phytopharm., Paris 1952, vol. 2. 1954, 584-590.
- Simkover, H. G., and Shenefeld, R. D.:** Effect of benzene hexachloride and chlordane on certain soil organisms. J. econ. Ent. 44. 1951, 426-427. — Chem. Zentralbl. 123. 1952, 2244.
- Sisler, H. D., and Cox, C. E.:** Effects of tetramethylthiuram disulfide on anaerobic breakdown of glucose by brewers' yeast. Amer. J. Bot. 42. 1955, 351-356.
- Slawson, H. H.:** Effect of insecticides on soil. Agric. Chem., Baltimore, 9 (5) 1954, 43.
- Slepecky, R. A., and Beck, J. V.:** The effect of 2,4-dichlorophenoxyacetic acid on nitrification in soil. Bact. Proc. Soc. amer. Bacteriologists 50. 1950, 17-18.
- Smith, A. E., Feldman, A. W., and Stone, G. M.:** Mobility of N-1-naphthylphthalamic acid (Alanap) in soil. J. agric., Food Chem., Washington, 5. 1957, 745-749.
- Smith, M. S.:** Persistence of DDT and benzene hexachloride in soils. Int. Congr. Crop Prot. Abstr. Commun. 2. 1949, 72-73. — Proc. int. Congr. Crop Prot. 2 (1949). 1951, 404-409.
- Smith, R. J., and Ennis, W. B.:** Studies on the downward movement of 2,4-D and 3-chloro-IPC in soils. Proc. south. Weed Conf. 6. 1953, 63-71.
- Spicher, G.:** Zersetzung von 2,4-D bei *Flavobacterium peregrinum* St. et Sp. Zentralbl. Bakt., II. Abtlg., 108. 1954, 225-231.
- Spoon, W.:** Wirkung der systemischen Insektizide auf Kakaobohnen. (Orig. holländisch.) (Engl. Zusammenfassung.) Bergcultures, Batavia, 23. 1954, 455, 457.
- Springer, G.:** "Organic soil builders" oppose spray program. Organic Farmer 3 (4). 1951, 28-33.
- Stapp, C.:** Über die Wirkung von E 605-Präparaten auf Bodenbakterien. Nachr. bl. dtsh. Pfl.schutzd., Braunschweig, 3. 1951, 27-29.
- Stapp, C., und Freter, R.:** Untersuchungen über die Wirkung von 2,4-D im Boden. I. Mitt.: Eine verbesserte Nachweismethode und orientierende Versuche über die Haltbarkeitsdauer des Wuchsstoffs im Boden. II. Mitt.: Die Reaktion von Bodenbakterien auf den Wuchsstoff. Phytopath. Ztschr. 18. 1952, 365-375; 19. 1952, 20-33. — Chem. Zentralbl. 123. 1952, 7402; 124. 1953, 75.
- Stapp, C., und Spicher, G.:** Untersuchungen über die Wirkung von 2,4-D im Boden. IV. *Flavobacterium peregrinum* n. sp. und seine Fähigkeit zum Abbau des Hormones. Zentralbl. Bakt., II. Abt., 108. 1954, 113-126.
- Stenson, T. I., and Walker, N.:** The pathway of breakdown of 2,4-dichloro- and 4-chloro-2-methyl-phenoxyacetic acid by bacteria (in soils). J. gen. Microbiol. 16. 1957, 146-155.
- Stevens, L. F., and Carlson, R. F.:** The effects of chloro IPC on various crops and its residual properties in various soils. Proc. northeast. Weed Control Conf. 6. 1952, 33-44.
- Stier, E. F., and MacLinn, W. A.:** Pesticide residues in soil and their effects on vegetable quality. Veg. Grower's Assoc. Amer. Ann. Rept. 1955, 91-94.
- Strecker, B.:** Untersuchungen über die Einwirkung von organischen Fungiziden auf Bodenpilze. Ztschr. Pfl.krankh. 64. 1957, 9-35.
- Sund, K. A.:** Plant regulator residues. Residual activity of 3-amino-1,2,4-triazole in soils. J. agric., Food Chem., Washington, 4. 1956, 57-60.
- Swanson, C. L. W., and Jacobson, H. G. M.:** Influence of cultivation and weed killers on soil structure and crop yield. Soil Sci. 69. 1950, 443-457.

- Swanson, C. L. W., Thorp, F. C., and Friend, R. B.:** Adsorption of lindane by soils. *Soil Sci.* 78. 1954, 379-388. — *Chem. Zentralbl.* 126. 1955, 5876.
- Swart-Füchtbauer, H.:** Über den Einfluß von „Systox“ auf Mikroorganismen. *Höfchen-Briefe*, Leverkusen, 8. 1955, 28-34.
- Takijima, Y., und Hayashi, T.:** Untersuchungen über das Verhalten von 2,4-D in Böden. (Orig. japan., engl. Zusammenfassung.) *J. Sci. Soil, Manure, Tokyo*, 25. 1954, 49-52, 97-101.
- Terriere, L. C., and Ingalsbe, D. W.:** Soil residue studies. *Agric. Chem., Baltimore*, 9 (2). 1954, 101.
- Terriere, L. C., and Ingalsbe, D. W.:** Translocation and residual action of soil insecticides. *J. econ. Ent.* 46. 1953, 751-753.
- Thakur, C., Srivastava, L. L., and Negi, N. S.:** Persistence of selective weed-icides in calcareous soils at Pusa, Bihar. *Sci. and Cult., Calcutta*, 21. 1956, 453-454.
- Thiegs, B. J.:** The stability of dalapon in soils. *Down to Earth, Midland (Michigan)*, 11(2). 1955, 2-4.
- Thomas, J. R.:** Chemistry of soil arsenic. *Diss. Abstr.* 15. 1955, 2379-2380.
- Thompson, A. H., and Batjer, L. P.:** Helpful soil treatment for correcting arsenic injury to peach trees planted on toxic soils. *Proc. amer. pomol. Soc.* 63 (1948). 1949, 169-171 (Abstr.).
- Thornton, G. D.:** Some effects of D-D, EDB and chloropicrin on microbiological action in several Florida soils. *Proc. Soil Sci. Soc. Florida* 12. 1952, 68-71.
- Tibbitts, T. W., and Holm, L. C.:** Physiological studies on the behavior of TCA in vegetable crops and soils. *Proc. north. centr. Weed Control Conf.* 9. 1952, 76-77.
- Tsitovich, I. K.:** Einfluß von Herbiziden auf den Boden. (Orig. russ.) (Die Wirkung von 2,4-D-Natriumsalz, 2-Methyl-4-chlorphenoxyessigsäure - Natriumsalz und Dinitro-o-kresol-Natriumsalz auf Unkräuter und Pflanzen.) *Agrobiologiia*, Moskwa, 4. 1951, 129-132. — *Dokl. Akad. Nauk SSSR* 80. 1951, 417-420.
- Upchurch, R. P., and Pierce, W. C.:** The effect of intensity and frequency of simulated rainfall on the leaching of 3(p-chlorophenyl)-1,1-dimethylurea through Lakeland sand soil. *Agron. Abstr.* 1956, 94.
- Verona, O.:** Über die Wirkung des Hexachlorcyclohexans auf die Bodenmikroflora. (Orig. ital.) *Osserv. Region. Fito-path. Mem.* 255. 1951, 9 p. — *Ann. Tecn. agr., Roma*, 17. 1951, 7 p. — *Chem. Zentralbl.* 124. 1953, 2017.
- Verona, O., und Picci, G.:** Über die Wirkung von Systeminsektiziden auf die Bodenmikroflora. (Orig. ital.) *Agric. ital., Pisa*, 52. 1952, 61-70. — *Chem. Zentralbl.* 124. 1953, 5562.
- Vindard, G.:** Influence de l'acide 2-méthyl-4-chloro-phénoxyacétique sur le développement de l'Azotobacter dans le sol. *Compt. rend. Acad. Agric. France* 39. 1952, 417-418. — *Chem. Zentralbl.* 126. 1955, 1823.
- Vindard, G., et Daste, P.:** Influence de l'acide 2,4-dichlorophénoxyacétique sur le développement de l'Azotobacter dans le sol. *Compt. rend. Acad. Sci., Paris*, 233. 1951, 1310-1312. — *Chem. Zentralbl.* 123. 1952, 6875.
- Vindard, G., Daste, P., et Longchamp, R.:** Action comparée du 2-méthyl-4-chloro-phénoxyacétate de sodium (MCPA) sur le développement de l'Azotobacter dans divers sols. *Compt. rend. Acad. Sci., Paris*, 235. 1952, 1048-1049.
- Vlitos, A. J.:** Biological activation of sodium 2-(2,4-dichlorophenoxy) ethyl sulfate. (Role of bacillus cereus var. mycoides in application of growth substances.) *Contrib. Boyce Thompson Inst.* 17. 1953, 127-149.

- Vlitos, A. J.:** The influence of environmental factors on the activity of Crag herbicide 1 (sodium 2, 4-dichlorophenoxyethyl sulfate). Proc. northeast. Weed Control Conf. 6. 1952, 57-62.
- Vlitos, A. J., and King, L. J.:** Fate of sodium 2, 4-dichloro-phenoxy-ethyl-sulphate in the soil. Nature, London, 171. 1953, 523-524.
- Wade, P.:** Soil fumigation. II. The stability of ethylene dibromide in soil. J. Sci., Food, Agric., London, 5. 1954, 288-291.
- Walker, N.:** Decomposition of chlorophenols in soil. Plant and Soil, The Hague, 5. 1954, 194-204.
- Walker, N., and Wiltshire, G. H.:** The decomposition of naphthalene and α -chloro- and α -bromonaphthalenes by soil bacteria. Atti Congr. int. Microbiol. 6 (1953). 1955, nr. 1, p. 277.
- Walker, R. L., and Newman, A. S.:** Microbiological decomposition of 2, 4-dichlorophenoxyacetic acid. Appl. Microbiol. 4. 1956, 201-206.
- Warren, G. F.:** Rate of leaching and breakdown of several herbicides in different soils. Proc. north. centr. Weed Control Conf. 11. 1954, 5-6.
- Warren, G. F.:** The relative adsorption of several herbicides by widely differing soils. Proc. Weed Control Conf. 1956, 5.
- Warren, J. R., Graham, F., and Gale, G.:** Dominance of an actinomycete in a soil microflora after 2, 4-D treatment of plants. Phytopathology 41. 1951, 1037-1039.
- Watts, J. G.:** Response of nut grass to soil applications of organic insecticides. J. econ. Ent. 47. 1954, 435-438.
- Weber, G.:** Die Makrofauna leichter und schwerer Ackerböden und ihre Beeinflussung durch Pflanzenschutzmittel. Ztschr. Pfl.ernährg. 61 (2). 1953, 107-118. — Bull. analyt., Paris, 15. 1954, 634.
- Weintraub, R. L.:** Metabolism of 2, 4-D by microorganisms and higher plants. Proc. north. centr. Weed Control Conf. 10. 1953, 6-7.
- Wenzl, H.:** Auch die Nachwirkung von Wuchsstoff-Unkrautmitteln im Boden berücksichtigen! Pflanzenarzt, Wien, 8. 1955, 86-87.
- Westlake, D. W. S.:** Effect of some agricultural chemicals on soil microorganisms. Brit. Columbia agron. Assoc. Conf. Rept. 1955, 17.
- Westlake, W. E.:** The effect of new insecticides on the soil. Proc. Washington State hortic. Assoc. 46. 1950, 169-174.
- Wiese, A. F., and Dunham, R. S.:** Autumn applications of IPC and CIPC for killing wild oats (*Avena fatua*) prior to sowing oats. Agron. J., Washington, 46. 1954, 358-360.
- Wiklander, L., and Alvelid, S.:** Solubility of arsenate in synthetic systems and soils. Lantbrukshögsk. Ann., Uppsala, 17. 1950, 342-354.
- Wilhelm, S.:** Some factors affecting substrate colorisation and growth of the *Verticillium wilt* fungus in soil. Phytopathology 45. 1955, 696.
- Wilson, G.:** The effects of BHC in pest control. Effects on plants and soils in grub control. Queensland Bur. Sugar Exp. Stat. Cane Growers' Quart. Bull. 16. 1952, 44-46.
- Wilson, H. A.:** The effect of certain pesticides on nitrification in the soil. West Virginia agric. Exp. Stat. Techn. Bull. 366. 1954, 14 p.
- Wilson, J. K., and Choudhri, R. S.:** Effects of DDT on certain microbiological processes in the soil. J. econ. Ent. 39. 1946, 537-538. — Pflanzenschutzberichte, Wien, 2. 1947, 125.
- Wilson, J. K., and Choudhri, R. S.:** The effect of benzene hexachloride on soil organisms. J. agric. Res. 77. 1948, 25-32. Rev. appl. Mycol. 28. 1949, 30.

- Wolcott, G. N.:** Residual effectiveness of insecticides against soil-inhabiting insects. *J. Agric. Puerto Rico* 38. 1954, 108-114.
- Woodward, J. C.:** Residues in relation to soils, plants and animals. (Insecticidal residues.) *Agric. Inst. Rev.*, Ottawa, 8 (2). 1953, 65-66.
- Young, H. C., and Carroll, J. C.:** The decomposition of pentachlorophenol when applied as a residual pre-emergence herbicide. *Agron. J.*, Washington, 43. 1951, 504-507.
- Young, W. R.:** The persistence of heptachlor in soils. *Diss. Abstr.* 16. 1956, 198.
- Metabolism** of herbicides. Rept. 1951-1956 Science Service Laboratory, Univ. W. Ontario, London, Ontario, Canada, P. 22, 23, 24.
- North China Agricultural Science Research Institute:** Commonly used insecticides and their poisonous effects on the soil. *Chung-hua Shu-chü*, Shanghai, 1955. 3. ed., 12 p.
- Pesticide** residues in soil. *J. agric., Food Chem.*, Washington, 5. 1957, 84-85.
- Zersetzung** von Hormonpräparaten (2,4-D und 4 K-2 M) im Boden. (Orig. dänisch.) *Tidsskr. Planteavl*, København, 56. 1953, 173-174. — *Chem. Zentralbl.* 125. 1954, 7268.

E) Methoden zur Bestimmung von Rückständen auf oder in biologischem Material, auf sonstigen Oberflächen und in Böden.

I. Chemische und physikalisch-chemische Bestimmungsmethoden.

a) Methoden zur Bestimmung von fungiziden Wirkstoffen.

a₁) Anorganische Fungizide und Metalle. (Cu, Hg, Ba, Zn, Sn, Pb, Mn, Fe)

- Abbott, D. C., and Johnson, E. I.:** The determination of traces of mercury in apples. *Analyst*, London, 82. 1957, 206-208.
- Abbott, D. C., and Polhill, R. D. A.:** Determination of copper in oils and fats by means of dibenzyl-dithiocarbamic acid and its salts. *Analyst*, London, 79. 1954, 547-550.
- Allen, M., and Llewelyn, E. W. M.:** A rapid method of measuring copper deposits on large numbers of individual leaves. *East Malling Res. Stat. Ann. Rept.* 41 (1952/53). 1954, 180-181.
- Andrus, S.:** Determination of copper in plant materials by means of zinc dibenzyl-dithiocarbamate. *Analyst*, London, 80. 1955, 514-516. — *Chem. Zentralbl.* 127. 1956, 7326.
- Arthington, W., and Hulme, A. C.:** The estimation of mercury on the peel of apples. *Analyst*, London, 76. 1951, 211-215.
- Ault, R. G., Hudson, E. J., and Whitehouse, A. G. R.:** Determination of copper in hops and beer. *J. Inst. Brewing*, London, 61. 1955, 39-43.
- Ban, N. T., and Carleton, W. M.:** Evaluation of dust deposits by polarography. (Determination of copper on plant materials.) *Agric. Engin.* 36. 1955, 803-805.
- Barrett, F. R.:** Mikrobestimmung von Quecksilber in biologischem Material. *Analyst*, London, 81. 1956, 294-298. — *Chem. Zentralbl.* 128. 1957, 6244.
- Beeson, K. C.:** Report on copper and cobalt in plants. *J. Assoc. off. agric. Chemists*, Washington, 35. 1952, 402-406.
- Berg, H.:** Colorimetric copper determinations. *Wines and Vines*, San Francisco, 34 (2). 1953, 27.

- Bollmann, A., und Bassler, R.:** Betrachtungen über die Aluminiumdraht- und Dithizon-Methode zum Nachweis von Spuren Quecksilber in Futtermitteln. *Landw. Forsch., Darmstadt*, 9. 1956, 45-50. — *Ztschr. analyt. Chemie* 154. 1957, 219-220.
- Borchardt LeRoy, G., and Butler, J. P.:** Determination of trace amounts of copper. *Analyt. Chem., Washington*, 29. 1957, 414-419.
- Bosticco, A.:** Schnellbestimmungsmethode für Kupfer in biologischen Flüssigkeiten, feuchtem und trockenem Futter. (Orig. ital., engl. Zusammenfassung.) *Atti Soc. ital. Sci. Vet.* 7 (1953). 1954, 482-486.
- Bowen, H. J. M., and Dymond, J. A.:** Strontium and barium in plants and soils. *Atomic Energy Res. Establishm., Harwell (England) Spa* 4. 1955, 13 p.
- Brittain, R. W., Brazee, R. D., and Carleton, W. M.:** Evaluating spraying and dusting efficiency. (Quantitative estimation of copper deposits.) *Agric. Engin.* 36. 1955, 319-320, 323.
- Bussmann, A.:** Bestimmung von Zink in Blättern und Holz. *Landw. Jahrb. Schweiz* 69. 1955, 365-381.
- Butler, J. R.:** Spectrographic estimation of lead in twig samples. *Analyst, London*, 79. 1954, 103-104.
- Cheftel, H., Custot, F., und Nowak, M.:** Bestimmung kleiner Mengen Zinn in Nahrungsmitteln mit Dithiol. *Bull. Soc. Chim. France Mém.* [5] 16. 1949, 441-443. — *Chem. Zentralbl.* 121. 1950, 2746.
- Cheng, K. L., and Bray, R. H.:** Two specific methods of determining copper in soil and in plant material. *Analyt. Chem., Washington*, 25. 1953, 655-659.
- Coppenet, M., Ducet, G., Calvez, J., und Bats, J.:** Mikrokolorimetrische Kupferbestimmung in Pflanzen. (Orig. franz.) *Ann. agron., Paris*, n. ser. 5. 1954, 597-600. — *Ztschr. analyt. Chemie* 147. 1955, 374.
- Cunningham, D. K., and Anderson, J. A.:** Rapid detection of mercury on cereal grains. *Cereal Chem., St. Paul*, 31. 1954, 513-516. — *Ztschr. analyt. Chemie* 148. 1956, 441.
- Den Herder, C. P., und Krol, B. M.:** Routine-Analyse zur Bestimmung von Kupfer, Eisen und Mangan in Butter. *Nederl. Melk-, Zuiveltijdschr.* 4. 1950, 42-53.
- De Whalley, H. C. S.:** Balance of lead in West Indies sugar factories. (Includes method for determination of Pb.) *Xth Congr. int. ind. Agric. Relac. de Comun. Presentadas* 10 (2). 1954, 1354-1361.
- Dickinson, D., and Holt, R.:** Determination of tin in canned foods. *Analyst, London*, 79. 1954, 104-106.
- Edson, S. N., and Watson, L. E.:** Rapid colorimetric estimation of soil copper, employing a sodium diethyldithiocarbamate-salt mixture. *Chemist Analyst, Philpsburg*, 44. 1955, 94-95. — *Chem. Zentralbl.* 128. 1957, 3113.
- Eeckhaut, R. G.:** Preservatives containing mercury and their detection in beverages. *Fermentatio* 1955, 119-135.
- Ekman, P., und Lundell, K.:** Die Bestimmung von Kobalt und Kupfer in botanischem Material. *Lantbrukshögsk. Ann., Uppsala*, 16. 1949, 531-544.
- Elvidge, D. A., and Garratt, D. C.:** Bomb technique for preparing samples for determination of lead in foodstuffs. *Analyst, London*, 79. 1954, 146-147.
- Evans, H.:** Rapid determination of zinc in sugar-cane leaf material. *Trop. Agric., Trinidad*, 32. 1955, 142-146.
- Farnsworth, M., and Pekola, J.:** Determination of small amounts of tin with dithiol. *Analyt. Chem., Washington*, 26. 1954, 735-737.
- Ferrett, D. J., Milner, G. W. C., and Smales, A. A.:** The determination of lead in cocoa with a square-wave polarograph. *Analyst, London*, 79. 1954, 731-734.

- Fischer, W.:** Zur Herstellung von Papierabdrücken kupferhaltiger Spritzbeläge. Nachr.bl. dtsh. Pfl.schutzd., Berlin, 5. 1953, 157-158.
- Ford, O. W., and Burkholder, C. L.:** Mercury spray residues; their estimation on apples at harvest time. Agric. Chem., Baltimore, 7 (7). 1952, 44-47, 123.
- Forster, W. A.:** The determination of copper in plant material. Analyst, London, 78. 1953, 614-616.
- Gage, J. C.:** Determination of lead in organic material. Analyst, London, 80. 1955, 789-796.
- Gehrke, C. W., and van Runyon, C.:** A spectrographic method for the determination of tin, copper, iron, and lead in evaporated milk and the effects of storage on evaporated milk. J. Dairy Sci. 35. 1952, 488 (Abstr.).
- Gehrke, C. W., van Runyon, C., and Pickett, E. E.:** A quantitative spectrographic method for the determination of tin, copper, iron and lead in milk and milk products. The effect of storage on the concentration of these metals in evaporated milk. J. Dairy Sci. 37. 1954, 1401-1408.
- Golovaty, R. N.:** Bestimmung von Kupfer in Weinen. (Orig. russ.) Winod. i Wino-grad. USSR 13 (4). 1953, 14-16.
- Gorringe, B. S.:** Fumigation of agricultural products. XI. Sorption of mercury vapour by wheat. J. Sci. Food, Agric., London, 6. 1955, 791-799.
- Greenblau, N., and van der Westhuyzen, J. P.:** An improved preliminary treatment for the routine estimation of lead in wines and related products. J. Sci. Food, Agric., London, 7. 1956, 186-189.
- Gusev, S. I., und Bitovt, Z. A.:** Eine neue Methode zur Bestimmung von Zink in Nahrungsmitteln. (Orig. russ.) Voprosy Pitaniia 12 (2). 1953, 83-85.
- Hänni, H.:** Eine allgemein anwendbare Methode zur Bestimmung von Kupfer und Eisen in Milch und Milchprodukten. Mitt. Geb. Lebensm.unters., Hyg. 43. 1952, 357-369.
- Hennig, K., und Burkhardt, R.:** Die quantitative, polarographische Bestimmung von Kupfer und Zink in der Weinasche. Ztschr. Lebensm.-Untersuch., -Forsch. 98. 1954, 25-29.
- Hoste, J., Eeckhout, J., und Gillis, J.:** Spektrophotometrische Kupferbestimmung mit Cuproin (2,2'-Dichinoly). Analyt. chim. acta, Amsterdam, 9. 1953, 263-274. — Ztschr. analyt. Chemie 142. 1954, 374.
- Hudson, J. R.:** Spectrographic determination of metals in brewing materials and beer hazes. J. Inst. Brewing, London, 61. 1955, 127-133.
- Huysmans, C. P.:** Eine einfache Mikro-Kupfer-Analysenmethode, die bei fungiziden Testen beim Tee verwendet wird. (Orig. holländ.) Arch. Theecult., Buitenzorg, 18. 1953, 207-222.
- Jackson, R. K., and Brown, J. G.:** The determination of zinc in plant material without the use of organic extractants. Proc. amer. Soc. hort. Sci. 68. 1956, 1-5.
- Johnson, E. I., and Polhill, R. D. A.:** The use of sodium hexametaphosphate in the determination of traces of lead in food. Analyst, London, 80. 1955, 364-367.
- Jones, G. B.:** The polarographic determination of copper and zinc in plant and soils. Analyt. chim. Acta, Amsterdam, 7. 1952, 578-584.
- Jones, G. B.:** The polarographic determination of zinc and manganese in plant and animal tissues and soils. Analyt. chim. Acta, Amsterdam, 11. 1954, 88-97.
- Kathen, H.:** Die Bestimmung kleinster Eisenmengen in biologischem Material mit o-Phenanthrolinhydrochlorid unter Zusatz von Weinsäure. Biochem. Ztschr. 325. 1954, 491-496.

- Kick, H.:** Flammenphotometrische Bestimmung von Calcium, Magnesium und Mangan in Pflanzen und Bodenextrakten. *Ztschr. Pfl.ernährg., Düngg., Bodenkunde* 67. 1954, 53-57.
- Klein, A. K.:** Report on mercury. *J. Assoc. off. agric. Chemists, Washington*, 33. 1950, 594-597; 34. 1951, 529-533. — *Chem. Zentralbl.* 125. 1954, 7538.
- Königer, M., und Obermayer, G.:** Verbesserter Nachweis kupferhaltiger Spritzbeläge auf Pflanzen. *Nachr.bl. dtsh. Pfl.-schutzd., Braunschweig*, 9. 1957, 171-172.
- Krol, B. M., and den Herder, P. C.:** A routine method for the determination of copper in milk and in dried milk. *Nederl. Melk-, Zuiveltijdschr.* 9. 1955, 56-62.
- Kuznecov, V. I., und Mitrofanova, E. V.:** Genaue volumetrische Bestimmungsmethode von Mikrogramm-Mengen Quecksilber. *Ž. anal. Chim.* 11. 1956, 423-429. — *Ztschr. analyt. Chemie* 155. 1957, 356.
- Lagerwerff, J. V.:** Eine vergleichende Untersuchung der in der landwirtschaftlichen Literatur bestbekanntesten Methoden über die kolorimetrische Bestimmung von Kupfer in Boden- und Pflanzenproben. (Orig. holländ., engl. Zusammenfassung.) *Landbouwkdg. Tijdschr., Groningen*, 62. 1950, 282-291.
- Lakshminarayanan, K.:** Microchromatography. II. Detection of trace elements in biological media. *Proc. indian Acad. Sci.* 40 B. 1954, 167-172.
- Lamm, G. G.:** Microdetermination of zinc in soil extracts by paper chromatography. *Acta chem. scand., København*, 7. 1953, 1420-1422.
- Lockwood, H. C.:** Determination of lead in foodstuffs. *Analyst, London*, 79. 1954, 143-146.
- McCoach, H. J.:** Determination of mercury on wheat treated with an organic mercurial seed disinfectant. *New Zealand J. Sci., Technol.* A 31 (3). 1949, 25-28.
- Malkus, Z.:** Eine neue Methode zur Zinnbestimmung in Lebensmitteln mit Hilfe der oscillographischen Polarographie. *Ztschr. Lebensm. Untersuch., -Forsch.* 106. 1957, 257-262.
- Mareca Cortés, I.:** Contenido en cobre de un vino; su determinación polarográfica. *Guad. Secc. Ferment. Ind. (España)* 5. 1953, 13-16.
- Marfori, R. T.:** Spectrographic determination of zinc in plant materials. *Diss. Abstr.* 14. 1954, 919-920.
- Massey, H. F.:** Flame photometric estimation of copper; application to plant tissue. *Analyt. Chem., Washington*, 29. 1957, 365-366.
- Menzel, R. G., and Jackson, M. L.:** Determination of copper and zinc in soils or plants; polarographic determination in the same solution. *Analyt. Chem., Washington*, 23. 1951, 1861-1863.
- Michal, J., und Zýka, J.:** Tetraäthylthiuramdisulfid als analytisches Reagenz. IV. Photometrische Bestimmung von Quecksilber und Silber. *Collect. czechosl. chem. Communic.* 4. 22. 1957, 1135-1140.
- Miller, V. L., and Polley, D.:** Determination of diphenylmercury alone or in presence of phenylmercuric compounds. Application to ethyl analogues. *Analyt. Chem., Washington*, 26. 1954, 1333-1335.
- Miller, V. L., Polley, D., and Gould, C. J.:** Phenyl mercuric or ethyl mercuric compounds. *Analyt. Chem., Washington*, 23. 1951, 1286-1288.
- Mohr, W., und Gerauer, H.:** Die Kupferbestimmung in Milchpulver. *Milchwissenschaft* 9. 1954, 201-204.
- Muraca, R. F., Gardner, D. G., and Serfass, E. J.:** Colorimetric determination of zinc in effluents. *Plating* 41. 1954, 155-156.
- Neuhaus, K.:** Methoden zur Bestimmung des Kupfergehaltes in Kupferkalkspritzbelägen auf Pflanzen. *Nachr.bl. dtsh. Pfl.schutzd., Braunschweig*, 4. 1952, 124-125.

- Neumann, F.:** Bestimmung von Bleispuren in organischen Stoffen. (Visuelles Mischfarbenverfahren mit Dithizon.) *Ztschr. analyt. Chemie* 155. 1957, 340-349.
- Peynaud, E.:** Méthode colorimétrique de dosage du cuivre dans les vins à l'aide du 2,2-diquinolyle. *Chim. analyt., Paris, (ser. 4)* 36. 1954, 187-190. — *Bull. Soc. chim. France Docum.* 2. 1954, 166.
- Piette, A. M.:** Dosage du mercure dans la bière. *Ann. Falsif., Fraudes* 48. 1955, 101-108.
- Polhill, R. D. A.:** Bestimmung von Blei in Nahrungsmitteln. *Food Manuf., London*, 31. 1956, 182-184. — *Ztschr. analyt. Chemie* 155. 1957, 204.
- Polley, D., and Miller, V. L.:** Direct determination of methyl mercuric dicyandiamide. *J. Agric., Food Chem., Washington*, 2. 1954, 1030-1031.
- Polley, D., and Miller, V. L.:** Estimation of mixed phenyl and ethyl mercuric compounds. *Analyt. Chem., Washington*, 24. 1952, 1622-1623.
- Polley, D., and Miller, V. L.:** Rapid micro-procedure for determination of mercury in biological and mineral materials. *Analyt. Chem., Washington*, 27. 1955, 1162-1164. — *Chem. Zentralbl.* 127. 1956, 6772-6773.
- Porretta, A., Capuano, G., and Cultrera, R.:** Spectrophotometric determination of lead in foodstuffs. (Orig. ital.) *Ind. ital. Conserve* 31. 1956, 7-9.
- Ramsey, L. L.:** Report on metals, other elements and residues in foods. *J. Assoc. off. agric. Chemists, Washington*, 39. 1956, 698-699.
- Reifer, I.:** Neue Methode zur Mikrobestimmung von Quecksilber. *Roczn. Chem. Ann. Soc. Chim. Polon.* 26. 1952, 340 bis 349. — *Chem. Zentralbl.* 127. 1956, 8446.
- Roth, F. J.:** The estimation of sub-microgram quantities of mercury. *J. Assoc. off. agric. Chemists, Washington*, 40. 1957, 302-309.
- Saunier, M. R.:** Determination of metallic impurities in refined sugars. *Sucr. franç. (J. Fabric. Sucre)* 95. 1954, 399-402.
- Schwaebel, F. X., und Obermayer, G.:** Nachweis von kupferhaltigem Spritzbelag auf Pflanzen. *Nachr. bl. dtsh. Pfl. schutzd., Berlin*, 3. 1951, 167-168.
- Shapiro, M. Ia., und Lapina, V. G.:** Neue kolorimetrische Methode zur Kupferbestimmung in Wein. (Orig. russ.) *Winod. i Winograd. USSR* 13 (6). 1953, 6-8.
- Simonsen, D. G.:** Bestimmung von Quecksilber in biologischem Material. *J. amer. clin. Path.* 23. 1953, 789-797. — *Ztschr. analyt. Chemie* 145. 1955, 392.
- Smit, J., and Smit, J. A.:** Spectrochemical cobalt, molybdenum and copper determination in plants. *Analyt. chim. Acta, Amsterdam*, 8. 1953, 274-282.
- Steinle, H. K., and Lollar, R. M.:** Determination of copper as a minor constituent of vegetable extracts. *J. amer. Leather Chemists' Assoc., New York*, 49. 1954, 285-291.
- Stone, I., Ettinger, R., and Gantz, C.:** Non-ashing technique for determination of traces of copper in malt beverages. *Analyt. Chem., Washington*, 25. 1953, 893-895.
- Swartling, P., and Mattsson, S.:** Determination of copper and iron in butter, milk and cream. *Alnarpsinst. Mejeriavd. (Sverige) Meddel.* 42. 1954, 14 p.
- Szurman, J.:** Bestimmung kleiner Mengen Kupfer, Nickel, Zink und Mangan in pflanzlichem Material. (Orig. poln.) *Roczn. Nauk roln. Kraków (Ser. A)*, 73. 1956, 429-434. — *Ztschr. analyt. Chemie* 157. 1957, 136.
- Timberlake, C. F.:** A rapid method for the estimation of copper in cider. *Chem. and Ind. (Rev.)*, London, 47. 1954, 1442-1443.
- Vesterberg, R.:** Erfahrungen über Mikrobestimmungen von Quecksilber und Blei in biologischem Material. *Mikrochemie, Wien*, 36/37. 1951, 967-972. — *Chem. Zentralbl.* 127. 1956, 18519.

- Walton, H. F., and Smith, H. A.:** Rapid gravimetric determination of mercury in organic compounds. *Analyt. Chem.*, Washington, 28. 1956, 406-407. — *Chem. Zentralbl.* 127. 1956, 8177.
- Wanntorp, H., and Dyfverman, A.:** Identification and determination of mercury in biological materials. *Ark. Kemi, Stockholm*, 9. 1956, 7-27.
- Wassiljewa, A. A., und Schaikowa, M. D.:** Einige Fragen der Isolierung von Verbindungen des Quecksilbers aus Objekten biologischer Herkunft. (Orig. russ.) *Apothekenwesen* 4. 1955, Nr. 5, S. 23-26. — *Chem. Zentralbl.* 127. 1956, 9004.
- Westerhoff, H.:** Beitrag zur Kupferbestimmung im Boden. *Landw. Forsch, Darmstadt*, 7. 1955, 190-193.
- Wieman, R. L., Cannon, M. C., and Greenwood, D. A.:** The semi-quantitative spectrographic determination of copper in alfalfa. *Proc. Utah Acad. Sci. Arts, Let.* 26 (1948/49). 1951, 142-143.
- Williams, T. R., und Morgan, R. R. T.:** Eine Schnellmethode zur Bestimmung von Kupfer in Pflanzenmaterial. (Orig. engl.) *Chem. and Ind. (Rev.)*, London, 1954, 461. — *Ztschr. angew. Chemie* 66. 1954, 342.
- Determination of lead in foodstuffs.** Report of the lead panel of the metallic impurities in foodstuffs sub-committee of the analytical methods committee of the society for analytical chemistry. *Analyst*, London, 78. 1954, 397-402.
- Determination of lead in sugars.** *Int. Sugar J.*, Manchester, 57. 1955, 169.
- a₂) Schwefel und organische Fungizide.** (TMTD, Ferbam, Ziram, Maneb, Zineb, Captan, Karathan, Glyoxalidin, Dichlornaphthochinon, Tetrachlornitrobenzol, Pentachlorphenol)
- Barr, H. E., Clark, P. J., and Jacks, H.:** Determination of tetramethylthiuramdisulfide and dimethyldithiocarbamate spray residues on apples. *New Zealand J. Sci. Technol.* B 38. 1957, 425-432.
- Bornmann, J. H.:** Report on Phygon. (Dichlornaphthochinon.) *J. Assoc. off. agric. Chemists*, Washington, 40. 1957, 273-274.
- Burchfield, H. P., and McNew, G. L.:** The colorimetric determination of 2,3-dichloro-1,4-naphthochinone on seed. *Phytopathology* 38. 1948, 665-669.
- Clarke, D. G., Baum, H., Stanley, E. L., and Hester, W. F.:** Determination of dithiocarbamates. *Analyt. Chem.*, Washington, 23. 1951, 1842-1846.
- Čůta, F., Hejtmánek, M., und Kučera, Z.:** Bestimmung kleiner Mengen Schwefel. (Orig. tschech.) *Chem. Listy Vedu a Prumysl, Praha*, 50. 1956, 370-372. — *Collect. czechosl. chem. Commun.* 21. 1956, 886-889 (Hochschule f. Chemie, Prag).
- Erkama, J., und Laamanen, A.:** Eine colorimetrische Mikromethode zur quantitativen Bestimmung von Pentachlorphenol. (Orig. finn.) *Suomen Kemistilehti (Acta chem. fenn.)*, Helsinki, 29 (Ser. B). 1956, 37-39. — *Ztschr. analyt. Chemie* 154. 1957, 303.
- Feigl, F., und Stark, C.:** Mikronachweis von elementarem Schwefel. *Analyt. Chem.*, Washington, 27. 1955, 1838. — *Chem. Zentralbl.* 127. 1956, 13509.
- Fischer, W.:** Analyse von Pflanzenschutzmitteln. IV. Nachweis und Bestimmung von Thiuramverbindungen. *Ztschr. analyt. Chemie* 137. 1952, 90-98.
- Henriet, J.:** Contribution à l'analyse des produits phytopharmaceutiques. VIII. Détermination de la désinfection des graines de lin au disulfure de tétraméthylthiurame (TMTD). *Parasitica*, Gembloux, 12. 1956, 16-23. — *Bull. signal.*, Paris, 17. 1956, 2550.
- Heuermann, R. F.:** Dithiocarbamates. Determination of residue quantities of dialkyl dithiocarbamates by amine evolution. *J. Assoc. off. agric. Chemists*, Washington, 40. 1957, 264-270.

- Hillenbrand, E. F., Sutherland, W. W., and Hogsett, I. G.:** Determination of residual glyoxalidine fungicides on apples and cherries. *Analyt. Chem.*, Washington, 23. 1951, 626-629. — *Ztschr. analyt. Chemie* 136. 1952, 71.
- Jakubovič, A., und Prochazka, Z.:** Bestimmung kleiner Mengen von elementarem Schwefel. *Chem. Listy Vědu Průmysl, Praha*, 50. 1956, 2029-2031. — *Ztschr. analyt. Chemie* 156. 1957, 446.
- Keppel, G. E.:** Report on tetramethylthiuram disulfide. *J. Assoc. off. agric. Chemists, Washington*, 39. 1956, 709-712.
- Keppel, G. E.:** Report on tetramethylthiuram disulfide (thiram). *J. Assoc. off. agric. Chemists, Washington*, 40. 1957, 270-273.
- Krebs, H., Fassbender, H., und Jörgens, Fr.:** Nachweis von elementarem Schwefel durch Reaktion mit Bleithiophenolat. *Ztschr. analyt. Chemie* 155. 1957, 250-251.
- Lowen, W. K.:** Analysis of manganese ethylenebisdithiocarbamate compositions and residues. *J. Assoc. off. agric. Chemists, Washington*, 36. 1953, 484-492. — *Ztschr. analyt. Chemie* 141. 1954, 386.
- Lowen, W. K.:** Determination of dithiocarbamate residues on food crops. (Fruit and vegetables.) *Analyt. Chem.*, Washington, 23. 1951, 1846-1850. — *Canner, Chicago*, 112. 1951, nr. 15, p. 18. — *Chem. Zentralbl.* 123. 1952, 1072.
- Martin, J. T., and Pickard, J. A.:** Spray application problems. XIII. Determination of captan deposits: progress report. *Ann. Rept. agric., hortic. Res. Stat., Long Ashton (Bristol)*, 1954, 83-89.
- Ogg, C. L.:** Report on microanalytical determination of sulfur. *J. Assoc. off. agric. Chemists, Washington*, 35. 1952, 305-317; 36. 1953, 335-344.
- Payfer, R.:** Apparatus for the determination of carbamic acid derivatives. *J. Assoc. off. agric. Chemists, Washington*, 38. 1955, 534-536.
- Pease, H. L.:** Determination of dithiocarbamate fungicide residues. *J. Assoc. off. agric. Chemists, Washington*, 40. 1957, 1113-1120.
- Rosenthal, I., Gordon, C. F., Stanley, E. L., and Perlman, M. H.:** Microdetermination of the fungicide dinitrocapyryphenylcrotonate in food crops and animal tissues. *J. agric., Food Chem., Washington*, 5. 1957, 914-918.
- Roth, H.:** Kolorimetrische Bestimmung kleiner Mengen Schwefel. *Mikrochemie, Mikrochemica Acta, Wien*, 36/37. 1951, 379-392.
- Small, C. G.:** Quantitative determination of sulphur on leaves by titration. *Phytopathology* 24. 1934, 296-299.
- Steinbergs, A.:** A rapid turbidimetric method for the determination of small amounts of sulphur in plant material. *Analyst, London*, 78. 1953, 47-53.
- Taylor, D. M., and Klayder, T. J.:** Report on captan on surface of fruits and vegetables. *J. Assoc. off. agric. Chemists, Washington*, 40. 1957, 219-224.
- Viel, G.:** Détermination de résidus de soufre sur tomates traitées. *Phytiatr. Phytopharm.* 4. 1955, 177-180. — *Bull. signal., Paris*, 17. 1956, 2550.
- Wagner, J., Wallace, V., and Lawrence, J. M.:** Determination of captan. *J. agric., Food Chem., Washington*, 4. 1956, 1035-1038.
- Webster, J. G., and Dawson, J. A.:** A polarographic method for the estimation of tetrachloronitrobenzene residues on potatoes. *Analyst, London*, 77. 1952, 203-205.
- Wilson, A. R., and Dawson, J. A.:** Residues of trichloronitrobenzene on ware potatoes. *J. Sci. Food, Agric., London*, 4. 1953, 305-310. — *Chem. Zentralbl.* 125. 1954, 7762.

- b) Methoden zur Bestimmung von insektiziden Wirkstoffen.**
- b₁) Chlorierte Kohlenwasserstoffe. (DDT, Metoxychlor, Perthane, Rothane, Hexachlorcyclohexan, Chlordan, Heptachlor, Aldrin, Dieldrin, Toxaphen)**
- Adam, F., und Zust, A.:** Die Bestimmung des „Geigy 33“ in Mahlprodukten und das Verhalten des Insektizids beim Mahlprozess. (DDT.) Mitt. Geb. Lebensm.-unters., Hyg. 38. 1947, 371-375.
- Agazzi, E. J., Peters, E. D., and Brooks, F. R.:** Combustion techniques for the determination of residues of highly chlorinated pesticides. *Analyt. Chem.*, Washington, 25. 1953, 237-240.
- Alessandrini, M. E.:** Detection and determination of okta-klor (Chlordane) in commercial products and on sprayed surfaces. *Proc. int. Congr. Crop Prot.* 2 1949, 5-9. — *Int. Congr. Crop Prot. Abstr. Commun.* 2. 1949, 92-93.
- Alessandrini, M. E.:** Nachweis und Bestimmung von Oktachlor (Chlordan) und DDT auf besprühten Oberflächen einzeln und nebeneinander. (Orig. ital.; franz., engl. u. dtsh. Zusammenfassung.) *Rend. Ist. super. Sanità, Roma*, 12. 1949, 338-347.
- Alessandrini, M. E.:** New method of recovering superficial DDT or other insecticides from sprayed surfaces. *World Health Org. Mal/127 — Insecticides/39*, 5. July 1955.
- Alessandrini, M. E.:** Residual DDT content; a rapid method for the detection and determination of small quantities of DDT on sprayed surfaces. *Bull. World Health Org.*, Geneva, 2. 1950, 629-636.
- Alessandrini, M. E.:** Eine Schnellmethode zum Nachweis und zur quantitativen Bestimmung kleiner Mengen DDT auf besprühter Oberfläche. (Orig. ital.; franz., engl. u. dtsh. Zusammenfassung.) *Rend. Ist. super. Sanità, Roma*, 11. 1948, 518-530.
- Alessandrini, M. E., und Amormino, V.:** Untersuchung und Bestimmung von DDT in Olivenöl. (Orig. ital.; engl. Zusammenfassung.) *Rend. Ist. super. Sanità, Roma*, 17. 1954, 890-898.
- Alessandrini, M. E., und Amormino, V.:** Untersuchung von DDT in Mehl. (Orig. ital.; engl. Zusammenfassung.) *Rend. Ist. super. Sanità, Roma*, 14. 1951, 619-623; *Chim. e Ind., Milano*, 64 (Spec. nr. 3). 1950, 68-69. — *Ztschr. analyt. Chemie* 136, 1952, 68.
- Amsden, R. C., and Walbridge, D. J.:** Insecticide residues. Simplified method of estimating DDT residues. *J. agric., Food Chem.*, Washington, 2. 1954, 1323-1324.
- Anderson, L. D., and Gunther, F. A.:** Sampling techniques for determination of DDT residue on sweet corn. *J. econ. Ent.* 44, 1951, 1008-1010.
- Ascher, K. R. S., and Reuter, S.:** The physical state and insecticidal properties of DDT in spraying residues; laboratory experiments on glass plates. *Riv. Parassitol.*, Roma, 14. 1953, 115-122.
- Bailes, E. L., and Payne, M. G.:** Colorimetric method for determination of DDT. *Ind. engin. Chem.* 17. 1945, 438-440.
- Barlow, F.:** Bestimmung von Benzolhexachlorid in Rinderblut. (Orig. engl.) *Nature*, London, 160. 1947, 719-720.
- Barlow, F.:** A method for removing insecticide residues of wettable powders from sprayed surfaces. *Bull. Org. mond. Santé* 12. 1955, 359-364. — *Chem. Zentralbl.* 126. 1955, 11081.
- Berck, B.:** Chemical determination of insecticides. (DDT residues) *Proc. ent. Soc. Manitoba* 7. 1951, 14-15.
- Berck, B.:** Microdetermination of DDT in river water and suspended solids. *Analyt. Chem.*, Washington, 25. 1953, 1253-1256.

- Bogdarina, A. A., und Shokhor, I. N.:** Bestimmung von DDT- und HCH-Rückständen (in Nahrungsmitteln) nach der Ultraviolett - Absorptions - Spektroskopie. (Orig. russ.) Trudy Vsesoiuzn. Inst. Zashch. Rast. 5. 1954, 171-181.
- Bradbury, F. R., Higgons, D. J., and Stoneman, J. P.:** A colorimetric method for the estimation of 2,2-bis (p-chlorophenyl)-1,1,1-trichloroethane (DDT). J. Soc. chem. Ind., Cambridge, 66. 1947, 65-68.
- Bradbury, F. R., and Standen, H.:** The colorimetric determination of benzene hexachloride in insect tissues. J. Sci. Food, Agric., London, 5. 1954, 252-256.
- Brückner, G., Flatow, R., und Rohrlisch, M.:** Der quantitative Nachweis von DDT in Mahl- und Backprodukten und das Verhalten des DDT im Mahl- und Backprozeß. Getreide und Mehl, Detmold, 7. 1957, 73-77 (Beil. zu „Die Mühle“ 94. 1957).
- Carrillo, S. J., y Blazquez Vicente, J.:** Xenodeterminación toxicológica di dieldrin en la sangre. Bol. ofic. sanit. pan-amer., Washington, 39. 1955, 296-299.
- Carter, R. H.:** Estimation of DDT in milk by determination of organic chlorine. Ind., engin. Chem. 19. 1947, 54.
- Carter, R. H.:** Report on determination of DDT in plant and animal materials. J. Assoc. off. agric. Chemists, Washington, 33. 1950, 597-599.
- Carter, R. H.:** Report on methods for determination of DDT in insecticide residues and in animal products. J. Assoc. off. agric. Chemists, Washington, 30. 1947, 456-463.
- Carter, R. H.:** Report on the determination of DDT as spray residue on foods. J. Assoc. off. agric. Chemists, Washington, 36. 1953, 587-589.
- Carter, R. H., Nelson, R. H., and Gersdorff, W. A.:** Organic-chlorine determinations as a measure of insecticide residues in agricultural products. Advances Chem. Ser. 1. 1950, 271-273.
- Claborn, H. V., and Reckman, H. F.:** Determination of 1,1,1-trichloro-2,2-bis (p-methoxyphenyl) ethane in milk and fatty materials. Analyt. Chem., Washington, 24. 1952, 220-222. — Chem. Zentralbl. 125. 1954, 9181.
- Cohen, S.:** Report on the paper chromatographic method for distinguishing between lindane and technical BHC. J. Assoc. off. agric. Chemists, Washington, 40. 1957, 224-229.
- Colorado Iris, R., y Leyva, R. D.:** Determinación cuantitativa del DDT residual. (Engl. Zusammenfassung.) Rev. Inst. Salubr., Enferm. trop., México, 10. 1949, 101-111.
- Danish, A. A., and Lidov, R. E.:** Colorimetric method for estimating small amounts of aldrin (Compound 118). Analytic. Chem., Washington, 22. 1950, 702-706. — Advances Chem. Ser. 1. 1950, 190-197. — Ztschr. analyt. Chemie 133. 1951, 236.
- Davidow, B.:** Chromatographic method for the isolation of DDT an other chlorinated insecticides from fat. Proc. Fed. amer. Soc. exp. Biol. 9 (1, Pt. 1). 1950, 267.
- Davidow, B.:** Isolation of DDT from fats. J. Assoc. off. agric. Chemists, Washington, 33. 1950, 130-132.
- Davidow, B.:** A spectrophotometric method for the quantitative estimation of technical chlordane. J. Assoc. off. agric. Chemists, Washington, 33. 1950, 886-894.
- Deshusses, J., et Desbaumes, P.:** Dosage du perchloréthylène dans les fruits traités par cet hydrocarbure. Mitt. Geb. Lebensm.unters., Hyg. 46. 1955, 233-237.
- Downing, G., and Norton, L. B.:** Modification of Schechter method of estimating DDT residue. Analyt. Chem., Washington, 23. 1951, 1870-1871.

- Ellis, B. A., and Thompson, P. B.:** An examination of some methods for the determination of DDT and BHC. Proc. 2nd int. Congr. Crop Prot. 1949. 1951, 125-127.
- Fahey, J. E., and Rusk, H. W.:** Determination of DDT residues on corn. *Analyt. Chem.*, Washington, 23. 1951, 1826-1829. — *Ztschr. analyt. Chemie* 136. 1952, 456.
- Fairing, J. D., and Warrington jr., H. P.:** Colorimetric determination of small quantities of 1,1,1-trichloro-2,2-bis(p-methoxyphenyl)-ethane. *Advances Chem. Ser. I.* 1950, 260-265.
- Fischer, W., und Schmidt, G.:** Zur Frage der Entfernung von DDT-Spuren aus Glasgefäßen. *Nachr.bl. dtsh. Pfl.schutzd., Braunschweig*, 2. 1950, 107-108.
- Frawley, J. P., and Davidow, B.:** An ultraviolet spectrophotometric method for the quantitative estimation of benzene hexachloride in milk. *J. Assoc. off. agric. Chemists, Washington*, 32. 1949, 758-762.
- Fukami, H., Kimura, H., und Nakazima, M.:** Die Elektrolyse von Gamma-HCH mit kontrolliertem Potential an der Kathode und Bestimmung von kleinen Mengen HCH in wäßrigen alkoholischen Lösungen. (Orig. japan.; engl. Zusammenfassung.) *Botyu Kagaku (Sci. Insect Control)* 18. 1953, 51-56.
- Gandolfo, N.:** Extraktion und Bestimmung von DDT in tierischen Organen. (Orig. ital.; engl. Zusammenfassung.) *Rend. Ist. super. Sanità, Roma*, 14. 1951, 65-69.
- Garbe, L., and Krippner, G.:** Detection of dichlorodiphenyltrichloroethane (DDT). *Chem. Techn.*, Berlin, 7. 1955, 424.
- Garhart, M. D., Witmer, F. J., and Tajima, Y. A.:** Microdetermination of Aldrin and Dieldrin by infrared spectroscopy. *Analyt. Chem.*, Washington, 24. 1952, 851-857. — *Ztschr. analyt. Chemie* 141. 1954, 384.
- Gunther, F. A.:** Quantitative estimation of DDT and of DDT spray or dust deposits. *Ind. engin. Chem.* 17. 1945, 149-150.
- Gunther, F. A., Kolbezen, M. J., and Blinn, R. C.:** A preliminary report on the colorimetric detection of dieldrin. *J. econ. Ent.* 47. 1954, 185-186.
- Gunther, F. A., and Miller, M. E.:** Mass estimation of DDT surface and penetration residues. *Advances Chem. Ser. I.* 1950, 88-92.
- Hancock, W., und Laws, E. Q.:** Der Nachweis von Spuren von Benzolhexachlorid in Wasser und Wasserabläufen. (Orig. engl.) *Analyst, London*, 80. 1955, 665-674. — *Chem. Zentralbl.* 127. 1956, 11 534.
- Helmkamp, G. K., Gunther, F. A., Wolf, J. P., and Leonard, J. E.:** Residue analysis: direct potentiometric method for chloride ion applied to residues of chlorinated insecticides. (in food.) *J. agric., Food Chem.*, Washington, 2. 1954, 836-839.
- Hörnstein, I.:** Determination of technical benzene hexachloride in peanuts and soils. *Analyt. Chem.*, Washington, 24. 1952, 1036-1037.
- Hornstein, I.:** Pesticide determination. Determination of lindane in mushrooms. *J. agric., Food Chem.*, Washington, 3. 1955, 848-849. — *Bull. signal., Paris*, 17. 1956, 1268.
- Hornstein, I.:** Pesticide residues. Colorimetric determination of toxaphene. *J. agric., Food Chem.*, Washington, 5. 1957, 446-448.
- Howard, B. H.:** Die Bestimmung kleinster Mengen Hexachlorcyclohexan. (Benzolhexachlorid.) (Orig. engl.) *Analyst, London*, 72. 1947, 427-443.
- Hudy, J. A., and Dunn, C. L.:** Determination of organic chlorides and residues from chlorinated pesticides by combustion analysis. *J. agric., Food Chem.*, Washington, 5. 1957, 351-354.

- Johnson, C. S.:** Application and modification of the Schechter-Haller colorimetric method to the determination of DDT residues on alfalfa. Ohio State Univ. Abstr. Doct. Diss. 65 (1950/51). 1954, 149-155.
- Jorgensen, P. S.:** Report on heptachlor in foods. J. Assoc. off. agric. Chemists, Washington, 40. 1957, 242-249.
- Kenyon, W. C.:** Infrared absorption spectrum of toxaphene; identification in agricultural products. *Analyt. Chem.*, Washington, 24. 1952, 1197-1198.
- Klein, A. K.:** Report on benzene hexachloride in foods. (Determination of total BHC and beta-isomer.) J. Assoc. off. agric. Chemists, Washington, 36. 1953, 589-594; 37. 1954, 576-578; 39. 1956, 700-702. — *Bull. analyt.*, Paris, 16. 1955, 1353.
- Knotz, F.:** Eine einfache Methode zur Identifizierung und schätzungswise Erfassung von DDT-Spuren. *Scientia pharm.*, Wien, 19. 1951, 87-90. — *Chem. Zentralbl.* 123. 1952, 7245.
- Koblitsky, L., and Chisholm, R. D.:** Determination of DDT in soils. J. Assoc. off. agric. Chemists, Washington, 32. 1949, 781-786.
- Kunze, F. M.:** Report on methoxychlor. Simplified procedure for the analysis of methoxychlor in fruits and vegetables, dairy products and biological materials. J. Assoc. off. agric. Chemists, Washington, 37. 1954, 578-581. — *Bull. analyt.*, Paris, 16. 1955, 1353.
- Kunze, F. M., and Laug, E. P.:** Report on methoxychlor: the separation of DDT and methoxychlor and the analytical determination of each component. J. Assoc. off. agric. Chemists, Washington, 34. 1951, 537-539.
- Laug, E. P., Prickett, C. S., and Kunze, F. M.:** Survey analyses of human milk and fat for DDT content. *Proc. Fed. amer. Soc. exp. Biol.* 9 (1, Pt. 1). 1950, 294-295.
- Leggieri, G.:** Untersuchung von Weizen-Mahlprodukten, die mit Vorratsschutzmitteln behandelt sind, auf DDT. (Orig. ital.; engl. Zusammenfassung.) *Quad. Nutriz.*, Bologna, 10. 1949, 444-456.
- Lichtenstein, E. P., Beck, S. D., and Schulz, K. R.:** Colorimetric determination of lindane in soils and crops. J. agric., Food Chem., Washington, 4. 1956, 936.
- Majumder, S. K., and Pingale, S. V.:** Identification of chlorinated insecticides in residues from foods. *Bull. Centr. Food Technol. Res. Inst.*, Mysore, 4. 1955, 135-136.
- Majumder, S. K., and Pingale, S. V.:** Labile chlorine method for estimation of dieldrin. (1-10 mg.) *Chem. and Ind. (Rev.)*, London, 1955, 1739. — *Ztschr. analyt. Chemie* 152. 1956, 392.
- Majumder, S. K., and Pingale, S. V.:** Simple method for detecting the presence of residues of chlorinated insecticides. *Indian J. Ent.* 16. 1954, Part I, 2 p.
- Mann, H. D., and Carter, R. H.:** Improved procedure for extraction of DDT in milk. *Analyt. Chem.*, Washington, 23. 1951, 929-930. — *Ztschr. analyt. Chemie* 137. 1952, 61.
- Martin, J. T., and Batt, R. F.:** Spray application problems. VII. The determination of DDT in plant materials. *Ann. Rept. agric., hortic. Res. Stat.*, Long Ashton (Bristol), 1953, 121-128. — *Chem. Zentralbl.* 127. 1956, 8469.
- Mattson, A. M., Spillane, J. T., Baker, C., and Pearce, G. W.:** Determination of DDT and related substances in human fat. *Analyt. Chem.*, Washington, 25. 1953, 1065-1070. — *Ztschr. analyt. Chemie* 146. 1955, 400.
- Miles, J. R. W.:** Chemical determination of perthane residues on agricultural crops. J. agric., Food Chem., Washington, 5. 1957, 349-350.

- Mitchell, L. C.:** Note on the detection of chlorinated organic pesticides in the paper chromatogram. *J. Assoc. off. agric. Chemists*, Washington, 39. 1956, 891-893.
- Mitchell, L. C.:** Separation and identification of chlorinated organic pesticides by paper chromatography. III. Aldrin, isodrin, dieldrin and endrin. IV. The components of dilan. V. DDT (op' and pp' isomers), rbothane and metoxychlor. VI. Technical benzene hexachloride, lindane, technical DDT and rbothane. VII.-VIII. Technical DDT, p-p'-DDT, DDA, DDD, DDE, 4,4-dichlorobenzophenone and 2,4-dichlorobenzophenone. IX. Aldrin, DDE, dieldrin, DDT, lindane, metoxychlor, perthane and rbothane (DDD). X. The sensitivity of the chromogenic agent for the detection of pesticides in the chromatogram. *J. Assoc. off. agric. Chemists*, Washington, 36. 1953, 1183-1186; 37. 1954, 216-217, 530-533, 996-1001; 39. 1956, 484-489, 980-985, 985-990; 40. 1957, 294-302.
- Mitchell, L. C., and Patterson, W. I.:** The separation and identification of chlorinated organic pesticides by paper chromatography. II. Aldrin and dieldrin. *J. Assoc. off. agric. Chemists*, Washington, 36. 1953, 553-558.
- Norton, L. B., and Schmalzriedt, B.:** Elimination of interferences in determination of DDT residues. *Analyt. Chem.*, Washington, 22. 1950, 1451. — *Chem. Zentralbl.* 122. 1951, 1197.
- O'Colla, P.:** The analysis of chlorinated organic insecticides by partition chromatography on paper and on cellulose columns. (Benzene hexachloride, chlordane, toxaphene and DDT.) *J. Sci. Food, Agric.*, London, 3. 1952, 130-135. — *Chem. Zentralbl.* 124. 1953, 2826.
- O'Donnell, A. E., Johnson jr., H. W., and Weiss, F. T.:** Chemical determination of dieldrin in crop materials. *J. agric., Food Chem.*, Washington, 3. 1955, 757-762.
- O'Donnell, A. E., Neal, M. M., Weiss, F. T., Bann, J. M., DeCino, T. J., and Lau, S. C.:** Pesticide residues. Chemical determination of aldrin in crop materials. *J. agric., Food Chem.*, Washington, 2. 1954, 573-580. — *Chem. Zentralbl.* 126. 1955, 3408.
- Ordas, E. P., Smith, V. C., and Meyer, C. F.:** Spectrophotometric determination of heptachlor and technical chlordan on food and forage crops. *J. agric., Food Chem.*, Washington, 4. 1956, 444-451.
- Pearce, G. W., Mattson, A. M., and Hayes jr., W. J.:** Examination of human fat for the presence of DDT. *Science*, Lancaster, 116. 1952, 254-256.
- Peoples, S. A.:** Quantitative determination of gamma hexachlorocyclohexane in animal tissue. *Proc. Fed. amer. Soc. exp. Biol.* 11. 1952, 382.
- Perry, W. J., and Bodenlos, L. J.:** 2,2-bis(p-chlorophenyl)-1, 1, 1-trichloroethane (DDT) determinations in tissues, body fluids and excreta of human subjects. *Mosquito News*, New Brunswick, 10. 1950, 1-3.
- Perry, S. Z., Lykken, L., Brooks, F. R., O'Donnell, A. E., and Agazzi, E. J.:** Determination of aldrin in agricultural materials. III. *Congr. int. Phytopharm.*, Paris, 1952, vol. 2 (Communic. sci.), 1954, 167-177.
- Petrosini, G.:** Die Bestimmung des DDT im Olivenöl. (Orig. ital.) *Rend. Accad. Sci. fis. mat.*, Napoli, 18. 1951, 186-191. — *Chem. Zentralbl.* 126. 1955, 3469.
- Phillips, W. F.:** Colorimetric estimation of residual benzene hexachloride. (in food.) *Analyt. Chem.*, Washington, 24. 1952, 1976-1979.
- Phillips, W. F., und de Benedictis, M. E.:** Eine Methode zur Mikrobestimmung von Chlor in organischen Insektiziden durch Reduktion mit Natrium. (Orig. engl.) *J. agric., Food Chem.*, Washington, 2. 1954, 1226-1228. — *Chem. Zentralbl.* 127. 1956, 10 795.

- Pontoriero, P. L., and Ginsburg, J. M.:** An abridged procedure in the Schechter method for analysing DDT residues. *J. econ. Ent.* 46. 1953, 903-904.
- Prickett, C. S., Kunze, F. M., and Laug, E. P.:** Modification of the Schechter method for the determination of methoxychlor or DDT in biological materials. *J. Assoc. off. agric. Chemists, Washington*, 33. 1950, 880-886.
- Prickett, C. S., Kunze, F. M., and Laug, E. P.:** A rapid micromethod for determination of DDT and methoxychlor in animal tissues and fluids. *Proc. Fed. amer. Soc. exp. Biol.* 9 (1, Pt. 1). 1950, 309.
- Radomsky, J. L., und Davidow, B.:** Der Metabolit von Heptachlor, seine Bestimmung, Speicherung und Toxizität. (Orig. engl.) *J. Pharmacol., exp. Therap., Baltimore*, 107. 1953, 266-272.
- Reith, J. F.:** Bestimmung des Insektizids Hexachlorcyclohexan in Gemüsen. (Orig. holländ.) *Chem. Weekbl. (Nederland)* 49. 1953, 689-692.
- Richard, C.:** Application de la méthode Alessandrini modifiée par Lanzing à l'évaluation de très faibles quantités de DDT. *Bull. World Health Org., Geneva*, 9. 1953, 813-820.
- Rusk, H. W.:** A sodium-extrusion press. Sodium for residue determinations on chlorinated hydrocarbon insecticides. *US agric. Res. Serv. ARS-33*. 1956, nr. 16, 3 p.
- Sabatino, F. J.:** Report on aldrin spray residue. *J. Assoc. off. agric. Chemists, Washington*, 40. 1957, 218-219.
- Schechter, M. S., and Hornstein, I.:** Colorimetric determination of benzene hexachloride. *Analyt. Chem., Washington*, 24. 1952, 544-548, 1036-1037.
- Schechter, M. S., Pogorelskin, M. A., and Haller, H. L.:** Colorimetric determination of DDT in milk and fatty materials. *Ind., engin. Chem.* 19. 1947, 51-53.
- Schechter, M. S., Soloway, S. B., Hayes, R. A., and Haller, H. L.:** Colorimetric determination of DDT. *Ind., engin. Chem.* 17. 1945, 704-709.
- Schiavi, A., und Proença, L. M.:** Ein neuer biologischer Fortschritt bei der Rückstandsbestimmung von DDT. (Orig. portug., engl. Zusammenfassung.) *Arq. Hig., Saúde Publ., São Paulo*, 13 (35/38) (1948). 1950, 129-138.
- Schiffman, C. D.:** Report on methoxychlor residues on fruits and vegetables. *J. Assoc. off. agric. Chemists, Washington*, 39. 1956, 703-708; 40. 1957, 235-238.
- Schwerdtner, H.:** Mikroskopische Differenzierung von DDT in Handelspräparaten sowie Rückständen von Sprühbelägen. In: *Eichler, Wd., Insektizide heutzutage (Volk und Gesundheit, Berlin, 1954)*, S. 265-268.
- Stanley, E. L., and Jackson, F.:** Determination of Perthane residues. *Proc. Ann. Meetg. chem. Specialties Manuf. Assoc.* 41. 1954, 104-106.
- Stiff jr., H. A., and Castillo, J. C.:** Field test for surface DDT. *Ind., engin. Chem.* 18. 1946, 316-317.
- Streuli, C. A., and Cooke, W. D.:** Polarographic determination of the gamma isomer of hexachlorocyclohexane. *Analyt. Chem., Washington*, 26. 1954, 970-972.
- Stübner, K.:** Ein fluoreszenzoptisches Verfahren zum Nachweis von Hexa und DDT. *Anz. Schädl.kunde* 26. 1953, 9-12.
- Tufts, L. E., Darling, G. W., and Kimball, R. H.:** The determination of gamma benzene hexachloride in unhomogenized milk and in beef fat. *J. Assoc. off. agric. Chemists, Washington*, 33. 1950, 976-986.
- Van Asperen, K., and Oppenoorth, F. J.:** Quantitative determination and metabolism of hexachlorocyclohexane. *Chem. Weekbl. (Nederland)* 50. 1954, 353-356.
- Williams, D. W.:** Report on chlordane. *J. Assoc. off. agric. Chemists, Washington*, 40. 1957, 254-260.

- Winteringham, F. P. W., Harrison, A., and Bridges, R. G.: Analysis of DDT derivatives by reversed-phase paper partition chromatography. *Nature*, London, 166. 1950, 999.
- Zeumer, H.: Chemischer Nachweis von DDT und Hexa in Getreide und Mehl vor und nach der Reinigung. *Mühle* 89. 1952, 501-502. — *Chem. Zentralbl.* 123. 1952, 7274.
- Zeumer, H.: Über die Bestimmung von Kontaktinsektiziden. *Dtsch. Müller-Ztg.* 51. 1953, 278-279.
- Zeumer, H., und Neuhaus, K.: Die Bestimmung von Hexachlorcyclohexan in Mehl. *Chemikerzeitung*, Cöthen, 77. 1953, 105-107.
- Zeumer, H., und Neuhaus, K.: Die Bestimmung von Kontaktinsektiziden. *Getreide und Mehl* 3. 1953, 57-61 (Beil. zu „Die Mühle“ 90. 1953).
- b₂) Organische Phosphorverbindungen. (Parathion, Chlorthion, Diazinon, Gusathion, Malathion, Dimefox, Systox (Demeton), Schradan u. a.)**
- Alessandrini, M. E., Boniforti, L., e Ramelli, G. C.: Determinazione di residui di parathion nell'olio di oliva. *Rend. Ist. super. Sanità*, Roma, 18. 1955, 310-316. — *Bull. signal.*, Paris, 17. 1956, 267.
- Augustinsson, K. B., and Jonsson, G.: The chemical determination of parathion and its application to biological material. *Acta agric. Scand.*, Stockholm, 7. 1957, 165-319.
- Averell, P. R., and Norris, M. V.: Estimation of small amounts of 0,0-diethyl 0, p-nitrophenyl thiophosphate. *Analyt. Chem*, Washington, 20. 1948, 753-756.
- Blinn, R. C., and Gunther, F. A.: Pesticides residues. Determination of residues of 0,0-diethyl 0-(2-isopropyl-6-methyl-4-pyrimidyl)phosphorothioate in milk. *J. agric., Food Chem.*, Washington, 3. 1955, 1013-1016.
- Bowen, C. V., and Edwards jr., F. I.: Polarographic determination of 0,0-diethyl 0-p-nitrophenyl-thiophosphate (parathion). *Analyt. Chem.*, Washington, 22. 1950, 706-708. — *Advances Chem. ser.* 1950, nr. 1, p. 198-201. — *Chem. Zentralbl.* 127. 1956, 10 103.
- Boyd, G. R.: The determination of residues of 0-2,4-dichlorophenyl-0,0-diethyl phosphorothioate ("V-C 13 nemacide"). *Virginia J. Sci.* 6. 1955, 262.
- Briggs, A. I.: The spectrophotometric determination of parathion. *Analyst*, London, 80. 1955, 279-283.
- Buckley, R., and Colthurst, J. P.: The determination of 0,0-diethyl 0-p-nitrophenyl thiophosphate residues in tomatoes. *Analyst*, London, 79. 1954, 285-289. — *Ztschr. analyt. Chemie* 144. 1955, 296.
- Carter, P. R.: Analytical applications of the hydrolysis kinetics of some organo-phosphorus insecticides. *J. Sci. Food, Agric.*, London, 5. 1954, 457-460.
- Cavell, A. J.: The colorimetric determination of phosphorus in plant materials. *J. Sci. Food, Agric.*, London, 6. 1955, 479-480.
- Clifford, P. A.: Report on parathion. Determination by Averell-Norris method. *J. Assoc. off. agric. Chemists*, Washington, 38. 1955, 673-676.
- Clifford, P. A.: Report on parathion. Determination of spray residues. *J. Assoc. off. agric. Chemists*, Washington, 34. 1951, 533-536.
- Conroy, H. W.: Report on malathion. *J. Assoc. off. agric. Chemists*, Washington, 40. 1957, 230-235.
- Cook, J. W.: Paper chromatography of some organic phosphate insecticides. I. New spot test. II. Separation and identification. III. Effects of light on systox and isosystox. *J. Assoc. off. agric. Chemists*, Washington, 37. 1954, 984-987, 987-989, 989-996.

- Derkosch, J., und Mayer, F. X.:** Über den Nachweis und die Bestimmung des Schädlingsbekämpfungsmittels E 605 in der gerichtlichen Chemie. *Mikrochemie*, Wien, 2/3. 1955, 495-504. — *Österr. Chemikerztg.* 55. 1955, 317.
- Derkosch, J., Jansch, H., Leutner, R., und Mayer, F. X.:** Zum Nachweis des Schädlingsbekämpfungsmittels E 605. *Monatsh. Chemie*, Wien, 85. 1954, 684-692.
- Despaul, J. E., and Coleman, C. H.:** Comparison of results of analyses of phosphorus in fruit spreads by official volumetric and rapid colorimetric procedures. *J. Assoc. off. agric. Chemists*, Washington, 36. 1953, 1088-1093.
- Duppée, L. F., Heath, D. F., and Otter, I. K. H.:** Determining traces of tetramethylphosphorodiamidicfluoride (Dimefox) in crops. *J. agric., Food Chem.*, Washington, 4. 1956, 233-236.
- Edwards jr., F. I.:** Report on parathion. *J. Assoc. off. agric. Chemists*, Washington, 33. 1950, 783-787; 34. 1951, 686-689. — *Chem. Zentralbl.* 125. 1954, 7501.
- Edwards jr., F. I.:** Source of error in estimating small amounts of parathion. (Residues on fruit, vegetables and foliage.) *Analyt. Chem.*, Washington, 21. 1949, 1415-1416.
- Eggertsen, F. T., and Weiss, F. T.:** Sensitive photometric technique for determination of organophosphorus compounds. *Analyt. Chem.*, Washington, 29. 1957, 453-455.
- Eicken, S. v.:** Zur Ausscheidung von p-Nitrophenol im Urin nach Einwirkung von Pflanzenschutzmittel „E 605“. *Angew. Chem.* 66. 1954, 551-553.
- Fiori, A.:** Isolation and identification of parathion in biological material. (Original.) *Nature*, London, 178. 1956, 423-424.
- Gage, J. C.:** The analysis of p-nitrophenyl diethyl thiophosphate (E 605, parathion). *Int. Congr. Crop Prot. Abstr. Commun.* 2. 1949, 9-10. — *Proc. int. Congr. Crop Prot.* 2 (1949). 1951, 149-150. — *Analyst*, London, 75. 1950, 189-191. — *Chem. Zentralbl.* 121. II. 1950, 1996.
- Giang, P. A.:** Report on systemic insecticides. *J. Assoc. off. agric. Chemists*, Washington, 37. 1954, 642-647.
- Giang, P. A., Barthel, W. F., and Hall, S. A.:** Colorimetric determination of 0,0-dialkyl 1-hydroxyphosphonates derived from chloral. *J. agric., Food Chem.*, Washington, 2. 1954, 1281-1284. — *Chem. Zentralbl.* 127. 1956, 12 112.
- Gjullin, C. M., Scudder, H. J., and Erwin, W. R.:** Determination of malathion and its influence on flavor of milk from cows fed malathion-sprayed alfalfa. *J. agric., Food Chem.*, Washington, 3. 1955, 508-509.
- Goto, S., Muta, I., and Sato, R.:** An estimation of parathion spray residue on plants. (Orig. Japan.) *Agric. Chem. Insp. Stat. Ann. Rept.* 4. 1955, 5-9.
- Gunther, F. A., and Blinn, R. C.:** Mass-production techniques for estimation of parathion residues. *Advances Chem. Ser.* 1. 1950, 72-87. — *Chem. Zentralbl.* 126. 1955, 11 081.
- Gunther, F. A., and Blinn, R. C.:** Test for the microdetection of parathion in orange and lemon oils. *Analyt. Chem.*, Washington, 22. 1950, 1450. — *Ztschr. analyt. Chemie* 133. 1951, 237.
- Hall, S. A., Stohman, J. W., and Schechter, M. S.:** Colorimetric determination of octamethyl pyrophosphoramidate. *Analyt. Chem.*, Washington, 23. 1951, 1866-1868. — *Chem. Zentralbl.* 124. 1953, 760.
- Heath, D. F., Cleugh, J., Otter, J., and Park, P. O.:** Determining traces of octamethylpyrophosphoramidate (Schradan) in crops. *J. agric., Food Chem.*, Washington, 4. 1956, 230-233.

- Heyndrickx, A.:** Limitations of the chemical toxicological determination of parathion. (Orig. holländ.) Meded. Landbouwhooges., Opzoek.stat. Gent 21. 1956, 497-506.
- Hopkins, L., Abu Yaman, I. K., and Car-ruth, L. A.:** Flavor evaluation and residue analysis of malathion-treated lettuce. J. econ. Ent. 48. 1955, 151-152.
- Kaiser, H.:** Beitrag zum Nachweis von E-605-Vergiftungen. (In biologischem Material.) Dtsch. Lebensm.-Rundschau, Nürnberg, 51. 1955, 228-230. — Angew. Chemie 67. 1955, 673-674.
- Kaiser, H., und Haag, T.:** Zum chemisch-toxikologischen Nachweis von E 605 „Bayer“ sowie einiger anderer Insektizide der Thiophosphorsäurereihe. Arch. Pharm. 26. 1956, 542-597.
- Kido, H.:** Determination of parathion residues in olive fruit and oil. Calif. Olive Ind. News 11(2). 1956, 1, 4.
- Kolbezen, M. J., and Barkley, J. A.:** Detection of 0-(3-chloro-4-nitrophenyl) 0,0-dimethyl phosphorothioate and analysis of residues in milk (Chlorthion.) J. agric., Food Chem., Washington, 2. 1954, 1278-1280.
- Kolbezen, M. J., and Reynolds, H. T.:** Determination of 0-(3-chloro-4-nitrophenyl) 0,0-dimethyl phosphorothioate residues in cotton seed. (Chlorthion.) J. agric., Food Chem., Washington, 4. 1956, 522-525.
- Lawford, D. J., und Harvey, D. G.:** Die Bestimmung von p-Nitrophenol im Harn. (Orig. engl.) Analyst, London, 78. 1953, 63-65. — Ztschr. analyt. Chemie 146. 1955, 156.
- Magee, W. J.:** Chromatography and residue analysis of an organic phosphate insecticide (demeton). Iowa State Coll. J. Sci. 30. 1956, 411 (Doctoral thesis nr. 1650, subm. 22. 4. 55. B. S. Agric. a. Mechan. College of Texas).
- March, R. B., Metcalf, R. L., and Fukuto, T. R.:** Insecticides analysis. Paper chromatography of the systemic insecticides Demeton and Schradan. J. agric., Food Chem., Washington, 2. 1954, 732-735. — Chem. Zentralbl. 127. 1956, 8470.
- Menn, J. J., Erwin, W. R., and Gordon, H. T.:** Color reaction of 2, 6-dibromo-N-chloro-p-quinoneimine with thiophosphate on paper chromatograms. J. agric., Food Chem., Washington, 5. 1957, 601-602.
- Norris, M. V., Vail, W. A., and Averell, P. R.:** Colorimetric estimation of malathion residues. J. agric., Food Chem., Washington, 2. 1954, 570-573.
- Otter, I.:** Rückstände organischer phosphorhaltiger Insektizide in pflanzlichem Material. Ztschr. analyt. Chemie 154. 1957, 205-206. — Mikrochemie, Wien, 1956, 125-133.
- Paulus, W. und Mallach, H. J.:** Das Verhalten von E 605 an 18 Adsorbentien mit 9 Solventien. Arzneimittel-Forsch. 6. 1956, 766-767. — Ztschr. analyt. Chemie 159. 1957, 77.
- Paulus, W., und Mallach, H. J.:** Zur Spezifizierung des Nachweises von E 605 mit Hilfe der Säulenchromatographie. Arzneimittel-Forsch. 6. 1956, 766-767. — Bull. signal., Paris, 18. 1957, 2140.
- Paulus, W., Mallach, H. J., und Janitzki, U.:** Zum Nachweis des E 605. Arzneimittel-Forsch. 5. 1955, 241-244. — Chem. Zentralbl. 128. 1957, 7458.
- Pepe, T. L., e Storace, G.:** La estrazione totale del parathion dall' olio d'oliva e sua determinazione. Olearia, Riv. Mat. Grasse, Roma, 10. 1956, 9-11. — Bull. signal., Paris, 17. 1956, 2550.
- Pfeil, E., und Goldbach, H. J.:** Qualitative und quantitative Bestimmung von E 605 in biologischem Material. Klin. Wochenschr. 31. 1953, 1011-1012.
- Ramos, V. P.:** Determination of parathion in olive oil. Olivicoltura (Italia) 10 (8). 1955, 7-10.

- Ramos, V. P., de Carvalho, I., Neto, M. L., et Cabacao, E.:** Determination du parathion dans l'huile d'olive. *Oléagineux*, Paris, 10. 1955, 509-511. — *Bull. signal.*, Paris, 17. 1956, 268.
- Santini jr., R., und Sotelo, E.:** Die Bestimmung von 0,0-Diäthyl-0-p-nitrophenylthiophosphat (Parathion) in Ananas. *J. Agric. Univ. Puerto Rico* 39. 1955, 12-15. — *Chem. Zentralbl.* 128. 1957, 13794.
- Sass, S., Ludemann, W. D., Witten, B., Fischer, V., Sisti, A. J., and Miller, J. I.:** Colorimetric determination of certain organophosphorus compounds and acylating agents. *Analyt. Chem.*, Washington, 29. 1957, 1346-1349.
- Sharpe, R. H., and van Middlelem, C. H.:** Application of variance components to horticultural problems with special reference to a parathion residue study. *Proc. amer. Soc. hortic. Sci.* 66. 1955, 415-420. — *Bull. signal.*, Paris, 17. 1956, 2878.
- Suter, R., Delley, R., und Meyer, R.:** Bestimmung von Rückständen von Parathion im Olivenöl. (Orig. ital.). *Rend. Ist. super. Sanità*, Roma, 28. 1955, 310-316. — *Chem. Zentralbl.* 128. 1957, 248.
- Völksen, W.:** Beitrag zum toxikologischen Nachweis des Pflanzenschutzmittels „Systox“. *Dtsch. Apoth.ztg.* 95. 1955, 865-866.
- Welch, C. M., and West, P. W.:** Qualitative microdetermination of organic phosphorus compounds. *Analyt. Chem.*, Washington, 29. 1957, 874-877.
- Wollenberg, O.:** Kolorimetrische Bestimmung des Insektizides „Gusathion“ — „Bayer 17 147“. *Angew. Chemie* 68. 1956, 581.
- Wollenberg, O., und Schrader, G.:** Neuer spezifischer Nachweis des Insektizides „Bayer 17 147“ („Gusathion“). *Angew. Chemie* 68. 1956, 41.
- Zeumer, H., und Fischer, W.:** Beitrag zur Analyse von E 605-Präparaten. *Ztschr. analyt. Chemie* 135. 1952, 401-409.
- b₃) Insektizide aus pflanzlichen Rohstoffen und deren Synergisten. (Pyrethrine, Nikotin, Rotenon, Cyclothrin, Piperonylbutoxyd)**
- Beroza, M.:** Identification of 3,4-methylenedioxyphenyl synergists by reversed-phase paper chromatography. *Analyt. Chem.*, Washington, 28. 1956, 1550-1552. — *Bull. signal.*, Paris, 18. 1957, 676.
- Beroza, M.:** Insecticide synergists: determination of methylene dioxyphenyl-containing synergists, used in analysis of fly sprays. *J. agric., Food Chem.*, Washington, 4. 1956, 53-56.
- Blum, M. S.:** Colorimetric determination of small quantities of methylenedioxyphenyl-containing pyrethrum synergists. *J. agric., Food Chem.*, Washington, 3. 1955, 122-124.
- Jones, H. A., Ackermann, H. J., and Webster, M. E.:** The colorimetric determination of piperonyl butoxyde. *J. Assoc. off. agric. Chemists*, Washington, 35. 1952, 771-780. — *Chem. Zentralbl.* 127. 1956, 5671.
- Levy, L. W., and Estrada, R. E.:** A colorimetric method for the determination of pyrethrins. *Proc. Ann. Meetg. chem. Specialties Manuf. Assoc.* 40. 1953, 150-152. — *J. agric., Food Chem.*, Washington, 2. 1954, 629-632. — *Chem. Zentralbl.* 126. 1955, 8948.
- Luts, P.:** A micro-scale spot-test for nicotine. *Analyst*, London, 81. 1956, 548-551. — *Bull. signal.*, Paris, 18. 1957, 176.
- Moore, B. P.:** Notes on the 2,4-dinitrophenylhydrazine method for pyrethrum assay. *J. Sci. Food, Agric.*, London, 7. 1956, 740-744.
- Ogg, C. L., Willits, C. O., and Ricciuti, C.:** Effect of ammonium salts on determination of nicotine. *Analyt. Chem.*, Washington, 22. 1950, 335-337.

- Rao, N. V. S., and Pollard, A. G.:** Photo-decomposition of rotenone in spray deposits. I. Colorimetric determination of rotenone in spray deposits and residues. *J. Sci. Food, Agric.*, London, 1. 1950, 367-371.
- Rinthakul, C., and Hannen, J.:** The colorimetric bromothymol blue method for determining small quantities of nicotine. *J. Soc. chem. Ind.*, London, 69. 1950, 126-128.
- Schreiber, A. A., and McClellan, D. B.:** Determination of insecticide residues; analysis of flour from pyrethrum-treated cotton bags. *Analyt. Chem.*, Washington, 24. 1952, 1194-1195.
- Schreiber, A. A., and McClellan, D. B.:** Estimation of micro quantities of pyrethroids. *Analyt. Chem.*, Washington, 26. 1954, 604-607.
- Sweeney, J. P., and Williams, H. L.:** Colorimetric method for the determination of cyclothrin. *J. agric., Food Chem.*, Washington, 5. 1957, 670-674.
- Wahl, R.:** Über das Vorkommen und den Nachweis kleinster Nikotinmengen in Tomatenblättern. *Süddtsch. Tabakztg.* 62. 1952, Nr. 11 (Beil. Tabak-Forsch. 8, S. 3).
- Williams, H. L., Dale, W. E., and Sweeney, J. P.:** A new colorimetric method for pyrethrins. *J. Assoc. off. agric. Chemists*, Washington, 39. 1956, 872-879. — *Bull. signal.*, Paris, 18. 1957, 676.
- Williams, H. L., and Sweeney, J. P.:** Isolation of piperonyl butoxide from oils, fat and waxes. *J. Assoc. off. agric. Chemists*, Washington, 39. 1956, 975-980.
- b₄) Anorganische Insektizide. (Arsen, Selen, Fluor)**
- Blei siehe unter E1, a₁: Anorganische Fungizide und Metalle
- Almond, H.:** Field method for determination of traces of arsenic in soils. Confined-spot procedure, using a modified Gutzeit apparatus. *Analyt. Chem.*, Washington, 25. 1953, 1766-1767.
- Bartlet, J. C., Wood, M., and Chapman, R. A.:** Determination of arsenic in fruits and vegetables. *Analyt. Chem.*, Washington, 24. 1952, 1821-1824.
- Coeley, M. L.:** Quality control of arsenic compounds in feeds. *Feed Age* 2 (12). 1952, 34.
- Deckert, W.:** Exakte Arsenbestimmung in Lebens- und Futtermitteln. *Chem. Techn.*, Berlin, 7. 1955, 480-483. — *Bull. signal.*, Paris, 17. 1956, 562.
- Engle, E. A., and MacDonald, M. H.:** Micro-determination of selenium in agricultural materials. (Soils and plants.) *J. Colorado-Wyoming Acad. Sci.* 4. 1950, 20.
- Evans, R. J., and Bandemer, S. L.:** Determination of arsenic in biological materials. *Analyt. Chem.*, Washington, 26. 1954, 595-598. — *Ztschr. analyt. Chemie* 145. 1955, 394.
- Fabre, R., Truhaut, R., und Rouquette, A.:** Mikrobestimmung von Fluor in Pflanzenmaterial. (Orig. franz.) *Compt. rend. Acad. Sci.*, Paris, 240. 1955, 226-229.
- Fryd, C. F. M.:** Trace elements in food. II. Fluorine. *Food Manuf.*, London, 31. 1956, 236-238.
- Gabowitsch, R. D.:** Fluor in Nahrungsmitteln. (Orig. russ.) *Hyg. u. Sanit.wesen* 1951, 31-37. — *Chem. Zentralbl.* 123. 1952, 2439.
- Gericke, S., und Kurmies, B.:** Bestimmung von Fluor in landwirtschaftlich wichtigen Stoffen. *Landw. Forsch.*, Darmstadt, 3. 1950, 46-53. — *Chem. Zentralbl.* 123. 1952, 1394.
- Harrigan, M. C.:** Report on qualitative tests for fluorine. (Sample of fruit juice analyzed.) *J. Assoc. off. agric. Chemists*, Washington, 37. 1954, 381-382.
- Lockemann, G.:** Ein Schnellverfahren zur Ermittlung des Arsengehaltes von Traubenmost und anderen Fruchtsäften. *Ztschr. analyt. Chemie* 137. 1952, 26-30.

- Mavrodineanu, R., and Gwirtsman, J.:** Photoelectric end-point determination in the titration of fluorides with thorium nitrate (in plant tissue and in air). *Contrib. Boyce Thompson Inst.* 18. 1955, 181-186.
- Remmert, L. F., and Parks, T. D.:** Determination of fluorine in plant materials. *Analyt. Chem.*, Washington, 25. 1953, 450-453.
- Venkateswarlu, P., and Rao, D. N.:** Estimation of fluorine in biological material. *Analyt. Chem.*, Washington, 26. 1954, 766-767.
- Watzinger, F.:** Quantitative Bestimmung des Arsens in mit aliphatischen oder aromatischen Arsenen begiftetem Fett. *Ztschr. Lebensm. Untersuch., -Forsch.* 95. 1952, 313-315.
- Willard, H. H., and Horton, C. A.:** Fluorometric determinations of traces of fluoride. *Analyt. Chem.*, Washington, 24. 1952, 862-865.
- c) Methoden zur Bestimmung von Akariziden. (Aramite, Chlorbenzilat, Chlorocide [Chlorbenzide], Sulphenone, Chlorbenzolsulfonate u. a.)**
- Blinn, R. C., Gunther, F. A., and Kolbezen, M. J.:** Microdetermination of the acaricide ethyl-p,p'-dichlorobenzilate. *J. agric. Food Chem.*, Washington, 2. 1954, 1080-1083.
- Brokke, M. E., Kiigemagi, U., and Terriere, L. C.:** A spectrophotometric determination of 2-(p-tert-butylphenoxy)-1-methyl-ethyl 2-chloroethyl sulfite (Aramite) residues. *J. agric., Food Chem.*, Washington, 6. 1958, 26-27.
- Butzler, G. J., Luce, E. N., and Wing, R. E.:** Determination of residual p-chlorophenyl p-chlorobenzenesulfonate in orange pulp. *J. agric., Food Chem.*, Washington, 5. 1957, 42-44.
- Gunther, F. A., Blinn, R. C., and Barnes, M. M.:** Infrared determination of p-chlorobenzyl p-chlorophenyl sulfide and its oxidation to its sulfone on pears. *J. agric., Food Chem.*, Washington, 5. 1957, 198-201.
- Gunther, F. A., Blinn, R. C., Kolbezen, M. J., Brakley, J. H., Harris, W. D., and Simon, H. S.:** Microestimation of 2-(p-tert-butylphenoxy) isopropyl-2-chloroethyl sulfite residues (Aramite). *Analyt. Chem.*, Washington, 23. 1951, 1835-1842. — *Ztschr. analyt. Chemie* 136. 1952, 461.
- Gunther, F. A., and Jeppson, L. R.:** Residues of p-chlorophenyl-p-chlorobenzenesulfonate (Compound K 6451) on and in lemons and oranges. *J. econ. Ent.* 47. 1954, 1027-1032. — *Bull. analyt.*, Paris, 16. 1955, 3181.
- Hardon, H. J., Brunink, H., and van der Pol, E. W.:** Colorimetric determination of p-chlorobenzyl p-chlorophenyl sulphide as a spray residue. *J. Sci. Food, Agric.*, London, 8. 1957, 369-370.
- Harris, H. J.:** Pesticides residues. Colorimetric determination of ethyl-4,4'-dichlorobenzilate (Chlorbenzilate) as a spray residue. *J. agric., Food Chem.*, Washington, 3. 1955, 939-941.
- Higgins, D. J., and Kilbey, D. W.:** Colorimetric analysis of p-chlorobenzyl-p-chlorophenylsulphide (chlorbenside) residues in plant and animal tissue. *J. Sci. Food, Agric.*, London, 6. 1955, 441-455. — *Bull. signal.*, Paris, 17. 1956, 492.
- Higgins, D. J., and Kilbey, D. W.:** Colorimetric reactions of p-chlorobenzyl p-chlorophenyl sulphide (chlorbenside) and its sulphone. (Tests for residues). *Chem. and Ind. (Rev.)*, London, 44. 1954, 1359-1360.
- Kutschinsky, A. H., and Luce, E. N.:** Determination of p-chlorophenyl-p-chlorobenzene sulfonate in spray-residues on fresh fruits. *Analyt. Chem.*, Washington, 24. 1952, 188-190.

- Rosenthal, I., Frisone, G. J., and Gunther, F. A.:** Colorimetric microdetermination of the acaricide 4,4'-dichloro-alpha-(trichloromethyl) benzhydrol (FW-293). *J. agric., Food Chem., Washington*, 5. 1957, 514-517.
- Shuman, H.:** Report on sulphenone residues on fruit. *J. Assoc. off. agric. Chemists, Washington*, 40. 1957, 274-276.
- Watson, C. C.:** Determination of p-chlorobenzyl p-chlorophenyl sulfide (chlorben-side) and p-chlorobenzyl p-chlorophenyl sulfoxide (chlorobenside sulfoxide). (Residues on apples.) *J. agric., Food Chem., Washington*, 5. 1957, 679-687.
- Watson, C. C.:** Microdetermination of 2 (p-tert-butylphenoxy) 1-methylethyl-2-chloroethylsulfite (Aramite) residues by sulfur dioxide evolution. *J. agric., Food Chem., Washington*, 4. 1956, 452-454.
- d) Methoden zur Bestimmung von Herbiziden und Stoffen zur Beeinflussung des Pflanzenwachstums.**
- (DNC, 2,4-D, 2,4,5-T, Maleinsäurehydrazid, Indolylessigsäure, Trichloroessigsäure, IPC, CIPC, CMU, Alanap, Dalapon u. a.)
- Aldrich, F. D., and McLane, S. R.:** A paper chromatographic method for the detection of 3-amino-1,2,4-triazole in plant tissues. *Plant Physiol., Lancaster*, 32. 1957, 153-154.
- Bissinger, W. E., and Fredenburg, R. H.:** The determination of micro quantities of isopropyl N-phenylcarbamate (IPC) in head lettuce. *J. Assoc. off. agric. Chemists, Washington*, 34. 1951, 812-816.
- Bleidner, W. E.:** Herbicide determination: application of chromatography in determination of micro quantities of 3-(p-chlorophenyl)-1,1-dimethylurea. *J. agric., Food Chem., Washington*, 2. 1954, 682-684.
- Bleidner, W. E., Baker, H. M., Levitsky, M., and Lowen, W. K.:** Herbicide residues; determination of 3-(p-chlorophenyl)-1,1-dimethylurea in soils and plant tissue. *J. agric., Food Chem., Washington*, 2. 1954, 476-479. — *Chem. Zentralbl.* 127. 1956, 1140.
- Burchfield, H. P., and Storrs, E. E.:** A colorimetric method for the determination of 2,4-dichloro-6-(o-chloroanilino)-s-triazine, and related compounds. *Contrib. Boyce Thompson Inst.* 18. 1956, 319-330. — *Bull. signal., Paris*, 18. 1957, 1107.
- Ebert, V. A.:** Versuche über die quantitative Bestimmung der β -Indolylessigsäure (Heteroauxin) und ihre Lokalisierung im Gewebe der Pflanze. *Phytopath. Ztschr.* 24. 1955, 216-242.
- Edson, E. F.:** Estimation of dinitro-ortho-cresol in blood. *Lancet, Melbourne*, 1. 1954, 981-982.
- Erickson, L. C., and Brannaman, B. L.:** Chromotropic acid method for determining 2,4-D residues in rinses. *Hilgardia, Berkeley*, 23. 1954, 175-184.
- Fenwick, M. L., and Parker, V. H.:** The determination of 3,5-dinitro-o-cresol in the presence of β -carotene in biological tissues. *Analyst, London*, 80. 1955, 774-776. — *Chem. Zentralbl.* 128. 1957, 1017.
- Gard, L. N., Pray, B. O., and Rudd, N. G.:** Residues in crops receiving pre-emergence treatment with isopropyl N-(3-chlorophenyl) carbamate. *J. agric., Food Chem., Washington*, 2. 1954, 1174-1176.
- Gard, L. N., and Reynolds, J. L.:** Residues in crops treated with isopropyl N-(3-chlorophenyl) carbamate and isopropyl N-phenylcarbamate. *J. agric., Food Chem., Washington*, 5. 1957, 39-41.
- Gard, L. N., and Rudd, N. G.:** Herbicides determination: isopropylN-(3-chlorophenyl) carbamate (CIPC) in soil and crops. *J. agric., Food Chem., Washington*, 1. 1953, 630-632.

- Gordon, N., and Beroza, M.:** Spectrophotometric determination of small quantities of 2,4-dichlorophenoxyacetic acid and 2,4,5-trichlorophenoxyacetic acid (using partition chromatography). *Analyt. Chem.*, Washington, 24. 1952, 1968-1971.
- Green, F. O., and Feinstein, R. N.:** Quantitative estimation of 3-amino-1,2,4-triazole. *Analyt. Chem.*, Washington, 29. 1957, 1658-1660.
- Hinsvark, O. N., Houff, W. H., Wittwer, S. H., and Sell, H. M.:** The extraction and colorimetric estimation of indole-3-acetic acid and its esters in developing corn kernels. *Plant Physiol.*, Lancaster, 29. 1954, 107-108.
- Hogsett, J. N., and Funk, G. L.:** Determination of residual Crag herbicide I and its hydrolysis products on food crops. [Natrium-2-(2,4-dichlorphenoxy)-äthylsulfat] *Analyt. Chem.*, Washington, 26. 1954, 849-853. — *Ztschr. analyt. Chemie* 145. 1955, 154.
- Kutschinski, A. H.:** A laboratory method of determining the stability of dalapon sodium salt on soil and other media. Down to Earth, Midland (Michigan), 10(3). 1954, 14-15.
- Linser, H., und Kiermayer, O.:** Methoden zur Bestimmung pflanzlicher Wuchsstoffe. Springer-Verlag, Wien 1957. VII + 181 S.
- Linser, H., und Maschek, F.:** Kolorimetrische und biologische Bestimmung sowie chromatographische Trennung von Wuchsstoffen aus Pflanzen. *Planta* 41. 1953, 567-588. — *Ztschr. analyt. Chemie* 141. 1954, 319.
- Lowen, W. K., and Baker, H. M.:** Determination of macro and micro quantities of 3 (p-chlorophenyl) 1,1-dimethyl urea (CMU). *Analyt. Chem.*, Washington, 24. 1952, 1475-1479. — *Ztschr. analyt. Chemie* 140. 1953, 452.
- Marquardt, R. P., and Luce, E. N.:** Determination of small amounts 2,4-D in milk. *Analyt. Chem.*, Washington, 23. 1951, 1484-1486. — *Ztschr. analyt. Chemie* 136. 1952, 71.
- Marquardt, R. P., and Luce, E. N.:** Determination of 2,4-D in grain and seed. *J. agric., Food Chem.*, Washington, 3. 1955, 51-53.
- Minczewski, J.:** Die UV-Spektrophotometrische Bestimmung des Wachstumsregulators der β -Naphthoxyessigsäure im Boden. XV. Congr. Chimie analyt. Lisboa (Ramos e Cia Impr.) 1956, 23 x 16, 123-124. — *Bull. signal.*, Paris, 18. 1957, 703.
- Nitschke, E.:** Méthode de dosage colorimétrique de l'acide malique dans les vins et les moûts. *Mitt. Geb. Lebensm.unters., Hyg.* 43. 1952, 50-57.
- Parker, V. H.:** Ein Verfahren zur Schnellbestimmung von 3,5-Dinitro-o-kresol (DNOC) (in biol. Flüssigkeiten). (Orig. engl.) *Analyst*, London, 74. 1949, 646-647.
- Parker, V. H., and Roe, J. W.:** The determination of small quantities of 2,4-dinitro-o-cresol in biological material. *Proc. 2nd internat. Congr. Crop Prot.* 1949. 1951, 339-342.
- Smith, A. E., and Stone, G. M.:** Microdetermination of N-1-naphthylphthalamic acid. Residues in plant tissues. (Alanap). *Analyt. Chem.*, Washington, 25. 1953, 1397-1399. — *Ztschr. analyt. Chemie* 143. 1954, 238.
- Smith, G. N., Getzender, M. E., and Kutschinski, A. H.:** Determination of 2,2-dichloropropionic acid (Dalapon) in sugar-cane. *J. agric., Food Chem.*, Washington, 5. 1957, 675-678.
- Tibbitts, T. W., and Holm, L. G.:** Trichloroacetic acid; colorimetric method for quantitative determination in plant tissue. *J. agric., Food Chem.*, Washington, 1. 1953, 724-726.
- Vlitos, A. J., and Meudt, W.:** The role of auxin in plant flowering. II. Methods for extraction and quantitative chemical determination of free 3-indoleacetic acid (IAA) and other indole compounds from plant tissues. *Contrib. Boyce Thompson Inst.* 17. 1954, 401-411.

- Wadinomow, W. M., und Schtenberg, A. I.:** Spektrophotometrische Bestimmung des Methylesters der Alpha-Naphthylessigsäure in der Kartoffel, der das Keimen der Kartoffelknollen während längerer Lagerung verzögert. (Orig. russ.) Fragen Ernährg. 12. 1953, 74-79. — Chem. Zentralbl. 125. 1954, 6612.
- Wood, P. R.:** Determination of maleic hydrazide residues in plant and animal tissue. *Analyt. Chem.*, Washington, 25. 1953, 1079-1083. — Chem. Zentralbl. 126. 1955, 4900.
- Young, H. Y., and Gortner, W. A.:** Microdetermination of 3-(p-chlorophenyl)-1,1-dimethylurea in plant tissue. *Analyt. Chem.*, Washington, 25. 1953, 800-802. — Chem. Zentralbl. 125. 1954, 7272.
- e) Methoden zur Bestimmung sonstiger Wirkstoffe.**
(Quaternäre Ammoniumverbindungen, Antibiotika, Formaldehyd, Metaldehyd, Äthylen, chlorierte und bromierte aliphatische Kohlenwasserstoffe, Schwefelkohlenstoff, Blausäure, Phosphorwasserstoff, Antu, Natriumfluoracetat, Thallium, Diphenyl, Thioharnstoff u. a.)
- Almin, K. E.:** Spectrophotometric determination of biphenyl in treated fruit wrappers and a note on sampling of striped sheet materials. *Svensk Papp.tidn.* 59. 1956, 44-50.
- Baxter, R. A.:** Report on diphenyl in citrus products. *J. Assoc. off. agric. Chemists*, Washington, 40. 1957, 249-253.
- Benk, E.:** Über die Erkennung von Diphenyl. *Seifen - Öle - Fette - Wachse*, Augsburg, 83. 1957, 157.
- Bennett, H. P.:** Report on formaldehyde. *J. Assoc. off. agric. Chemists*, Washington, 33. 1950, 685-687.
- Bertling, L.:** Bestimmung von Diphenyl in Citrusfrüchten. *Angew. Chemie* 69. 1957, 110.
- Böhme, H., und Bertling, L.:** Zur Bestimmung von Diphenyl in Citrusfrüchten. *Ztschr. Lebensm.untersuch., Forsch.* 105. 1957, 311-318.
- Bruce, R. B., and Howard, J. W.:** Colorimetric determination of diphenyl in biological materials. *Analyt. Chem.*, Washington, 28. 1956, 1973-1975.
- Bunnell, R. H.:** The determination of diphenyl-p-phenylenediamine (DPPD) in feeds. *Poultry Sci.* 35. 1956, 960-961. — *Bull. signal.*, Paris, 18. 1957, 430.
- Conroy, H. W., Munsey, V. E., and Ramsey, L. L.:** Total volatile organic halide determination of aggregate residue of carbon tetrachloride, ethylene dichloride, and ethylene dibromide in fumigated cereal products: determination of bromide by the Koltzoff-Yutzy-van der Meulen procedure and of ethylene dichloride by difference. 2. Ethanolamine-sodium reduction procedure. *J. Assoc. off. agric. Chemists*, Washington, 40. 1957, 185-189. — *Ztschr. analyt. Chemie* 159. 1957, 70-71.
- Desbaumes, P., et Deshusses, J.:** Dosage du bromure de méthyle adsorbé dans les denrées traitées par cet insecticide. *Mitt. Geb. Lebensm.unters., Hyg.* 47. 1956, 550-561.
- Desbaumes, P., et Deshusses, J.:** Retention of hydrocyanic acid by cereals and flours. *Mitt. Geb. Lebensm.unters., Hyg.* 47. 1956, 113-121.
- Deshmukh, G. S., and Bapat, M. G.:** Determination of thiourea and its methyl derivatives by hypoiodite oxidation and iodine monochloride end point; iodine bromide end point in the titration of thiourea with iodate. *Ztschr. analyt. Chemie* 156. 1957, 276-280.
- Deshusses, J., und Desbaumes, P.:** Tetrachloräthylen in damit behandelten Früchten. (Analysemmethode.) *Mitt. Geb. Lebensm.unters., Hyg.* 46. 1955, 233-237.

- Dunning, C. L.:** Determination of carbon disulfide in fumigated cereal products. 1. An adaptation of Lowen's dithiocarbamate method. *J. Assoc. off. agric. Chemists*, Washington, 40. 1957, 168-171. — *Ztschr. analyt. Chemie* 159. 1957, 68-69.
- Dybing, F.:** Eine Methode zur Isolierung von Alpha-Naphthylthioharnstoff (ANTU) auf Organen mit nachfolgender Identifizierung. *Acta Pharmacol. toxicol.*, København, 11. 1955, 388-392. — *Ztschr. analyt. Chemie* 154. 1957, 399-400.
- Feuersenger, M.:** Lebensmittelhygienische Fragen der Kornkäferbekämpfung mit Phosphorwasserstoff. *Dtsch. Lebensm.-Rundschau*, Nürnberg, 1955, Heft 12, S. 293-296.
- Fogh, J., Rasmussen, P. O. H., and Skadhauge, K.:** Colorimetric method for quantitative microdetermination of quaternary ammonium compounds. Losses of quaternary ammonium compounds caused by glass absorption and concentration in the foam. *Analyt. Chem.*, Washington, 26. 1954, 393-395.
- Gerhardt, P. D., Lindgren, D. L., and Sinclair, W. B.:** Methyl bromide fumigation of walnuts to control two lepidopterous pests and determination of bromine residue in walnut meats. *J. econ. Ent.* 44. 1951, 384-389.
- Giang, P. A., and Smith, F. F.:** Colorimetric determination of metaldehyde residues on plants. *J. agric., Food Chem.*, Washington, 4. 1956, 623-625.
- Gladýšev, V. P., und Tolstikov, G. A.:** Colorimetrische Bestimmung von Thallium. (Orig. russ.) *Zavodskaja Lab.* 22. 1956, 166-168. — *Ztschr. analyt. Chemie* 156. 1957, 440-441.
- Hunold, G. A.:** Methoden zum Nachweis von Rattengiftstoffen im Körper kranker oder verendeter Haustiere. *Dtsch. Apoth.-ztg.* 93. 1953, 258-261.
- Kennett, B. H., and Huelin, F. E.:** Determination of ethylene dibromide in fumigated fruit. *J. agric., Food Chem.*, Washington, 5. 1957, 201-203.
- Keppel, G. E., and Munsey, V. E.:** Determination of carbon disulfide in fumigated cereal products. 2. A second adaptation of Lowen's dithiocarbamate method. *J. Assoc. off. agric. Chemists*, Washington, 40. 1957, 171-174. — *Ztschr. analyt. Chemie* 59. 1957, 69.
- Kirchner, J. G., Miller, J. M., and Rice, R. G.:** Estimation of biphenyl in treated citrus fruits. *Citrus Processing Conf. Program*, Abstr. Pap. 3. 1953, 8-9.
- Kirchner, J. G., Miller, J. M., and Rice, R. G.:** Fungicide determination; quantitative determination of biphenyl in citrus fruits and fruit products by means of chromatostrips. *J. agric., Food Chem.*, Washington, 2. 1954, 1031-1033. — *Bull. analyt.*, Paris, 16. 1955, 1353.
- Knodel, L. R., and Elvin, E. J.:** Infrared determination of biphenyl in treated fiberboard cartons. *Analyt. Chem.*, Washington, 24. 1952, 1824-1826.
- Korenman, I. M., Potiomkina, V. G., and Fiodorova, L. S.:** Colorimetrische Bestimmung von Thallium. (Orig. russ., engl. Zusammenfassung.) *Ž. anal. Chim.* 11. 1956, 307-309. — *Ztschr. analyt. Chemie* 155. 1957, 132.
- Kruse, J. M., and Mellon, M. G.:** Colorimetric determination of cyanide and thiocyanate. *Analyt. Chem.*, Washington, 25. 1953, 446-450.
- Lubatti, O. F., and Blackith, R. E.:** Fumigation of agricultural products. XIII. Trials of onion seed treated with methyl bromide and an improved method for its analysis. XIV. Treatment of peas and beans with methyl bromide. *J. Sci. Food, Agric.*, London, 7. 1956, 149-159, 343-348. — *Bull. signal*, Paris, 17. 1956, 1844.

- Lynn, E. G., and Vorhes, F. A.:** Residues in foods and feeds resulting from fumigation of grains with the commoner liquid formulations of carbon disulfide, carbon tetrachloride, ethylene dichloride and ethylene dibromide. *J. Assoc. off. agric. Chemists, Washington*, 40. 1957, 163-209.
- Mapes, D. A., and Shrader, S. A.:** Determination of perchloroethylene in strawberries. *J. agric., Food Chem., Washington*, 2. 1954, 202-203.
- Mapes, D. A., and Shrader, S. A.:** Determination of total and inorganic bromide residues in fumigated products. *J. Assoc. off. agric. Chemists, Washington*, 40. 1957, 189-191. — *Ztschr. analyt. Chemie* 59. 1957, 71.
- Mapes, D. A., and Shrader, S. A.:** Total volatile organic halide determination of aggregate residue of carbon tetrachloride, ethylene dichloride, and ethylene dibromide in fumigated cereal products: determination of bromide by the Koltzoff-Yutzky-van der Meulen procedure and of ethylene dichloride by difference. 1. Combustion procedure. *J. Assoc. off. agric. Chemists, Washington*, 40. 1957, 180-185.
- Newhall, W. F., Elvin, E. J., and Knodel, L. R.:** Infrared determination of biphenyl in citrus fruits. *Analyt. Chem., Washington*, 26. 1954, 1234-1236.
- Prescott, G. C., Emerson, E. H., and Ford, J. H.:** Determination of cycloheximide (actidione) residues in cherries. *J. agric., Food Chem., Washington*, 4. 1956, 343-345.
- Ramsey, L. L.:** Colorimetric determination of carbon tetrachloride in fumigated cereal products. *J. Assoc. off. agric. Chemists, Washington*, 40. 1957, 175-180. — *Ztschr. analyt. Chemie* 59. 1957, 69.
- Ramsey, L. L.:** Report on sodium fluoracetate (1080). *J. Assoc. off. agric. Chemists, Washington*, 36. 1953, 597-598; 37. 1954, 581-586.
- Ramsey, L. L., and Patterson, I. P.:** A new qualitative test for monofluoroacetic acid. *J. Assoc. off. agric. Chemists, Washington*, 34. 1951, 827-831.
- Schöberl, A., und Wichler, G.:** Thioharnstoffderivate als Rodentizide und ihr Nachweis bei Tierversgiftungen. *Angew. Chemie* 67. 1955, 417-420. — *Chem. Zentralbl.* 128. 1957, 248.
- Sinclair, W. B., and Crandall, P. R.:** Methods for determining ethylene chlorobromide and ethylene dibromide. *J. econ. Ent.* 45. 1952, 882-887. — *Chem. Zentralbl.* 127. 1956, 7645.
- Stanley, W. L., Vannier, S. H., and Gentili, B.:** A modified method for the quantitative estimation of diphenyl in citrus fruits. *J. Assoc. off. agric. Chemists, Washington*, 40. 1957, 282-286.
- Stolwijk, J. A. J., and Burg, S. P.:** A highly sensitive method for the determination of ethylene. *Plant Physiol., Lancaster*, 31 (Suppl.). 1956, XX (Abstr.).
- Tanada, A. F., Matsumoto, H., and Scheuer, P. J.:** Bromide residues; determination in fresh fruits after fumigation with ethylene dibromide. *J. agric., Food Chem., Washington*, 1. 1953, 453-455.
- Vasák, V.:** Nachweis und Bestimmung von Phosphorwasserstoff. (Orig. tschech.) *Chem. Listy Vědu Průmysl, Praha*, 50. 1956, 1116-1119. — *Ztschr. analyt. Chemie* 155. 1957, 369-370.
- West, P. W., and Sen, B.:** Spectrophotometric determination of traces of formaldehyde. *Ztschr. analyt. Chemie* 153. 1956, 177-183.
- Wilson, J. B.:** Report on quaternary ammonium compounds: detection of residual quaternary ammonium compounds on shell eggs. *J. Assoc. off. agric. Chemists, Washington*, 39. 1956, 659-662.
- Winkler, W. O.:** Report on the determination of thiourea in foods. *J. Assoc. off. agric. Chemists, Washington*, 39. 1956, 662-663. — *Bull. signal., Paris*, 18. 1957, 678.

- Winkler, W. O.:** Report on thiourea in foods. *J. Assoc. off. agric. Chemists, Washington*, 38. 1955, 355-357.
- Zolotuchin, V. K., und Molotkova, A. S.:** Colorimetrische Bestimmung von Thallium. (Orig. russ.) *Ž. anal. Chim.* 11. 1956, 248-249. — *Ztschr. analyt. Chemie* 155. 1957, 133.
- f) Allgemeine Bestimmungsmethoden (Probenahme, Extraktion, Abtrennung) und Zusammenfassungen.**
- Adams, R. E., Pratt, R. M., and Terry, C. W.:** A leaf punch for sampling foliage for analysis of spray deposits. *Phytopathology* 41. 1951, 568.
- Alessandrini, M. E.:** New method of sampling DDT or other insecticides on sprayed surfaces. (Orig. ital.) *Rend. Ist. super. Sanità, Roma*, 19. 1956, 5-10.
- Avakián, A. G.:** A new method for determining the size of surface of plant leaves. *Akad. Nauk Armianskoi SSR Izv. Biol. i Sel'skhoz. Nauk* 8 (4). 1955, 43-47.
- Bär, F.:** Schädlingsbekämpfungsmittel, ihre Einwirkung auf Lebensmittel und ihr Nachweis. *Ztschr. Lebensm.-Untersuch. u. -Forsch.* 105. 1957, 104-121.
- Batchelder, C. H., and Berndt, O. E.:** Tumbling equipment for recovery of insecticide residues. *US Bur. Ent., Plant Quar., Washington, ET-283*. 1950, 5 p.
- Brown, L. R.:** A method for estimating zonal areas of apple skin in insecticide residue studies. *J. econ. Ent.* 44. 1951, 432-433.
- Burchfield, H. P., and Storrs, E. E.:** Partition of insecticides between N,N' -dimethylformamide and hexane. *Contrib. Boyce Thompson Inst.* 17. 1953, 333-334.
- Carter, R. H.:** Status of analytical methods with respect to the determination of minimal quantities of insecticides. *J. econ. Ent.* 48. 1955, 424-425. — *Bull. signal., Paris*, 17. 1956, 996. — *Chem. Zentralbl.* 127. 1956, 10 322.
- Dormal-van den Bruel, S.:** Détermination des traces d'insecticides en surface et à l'intérieur des fruits et des légumes. *Congr. int. Ind. Agr. Relac. Comun. Presentadas* 10 (1). 1954, 808-812.
- Fischer, W.:** Untersuchung von Pflanzenschutzmitteln. *Methodenbuch Bd. 7. Neumann-Verlag, Radebeul und Berlin* 1951. 2. Aufl., 116 S.
- Freeman, G. H., and Bolas, B. D.:** A method for the rapid determination of leaf areas in the field. *East Malling Res. Stat. Ann. Rept.* 43. 1955 (1956), 104-107.
- Ginsburg, J. M., Filmer, R. S., and Reed, J. P.:** Recovery of organic insecticides from sprayed and dusted crops. *J. econ. Ent.* 45. 1952, 428-431.
- Ginsburg, J. M., Filmer, R. S., Reed, J. P., and Paterson, A. R.:** Recovery of parathion, DDT and certain analogs of dichlorodiphenyl-dichloroethane from treated crops. *J. econ. Ent.* 42. 1949, 602-611.
- Gordon, H. T.:** Simple and fast method of determining insecticide residue on fruit. *West. Fruit Grower, San Francisco*, 6 (6). 1952, 35.
- Gruch, W., und Hirschfelder, H.:** Zum Nachweis von Kontaktinsektiziden in Bienen. *Ztschr. Bienenforsch.* 3. 1955, 69-72.
- Gunther, F. A.:** Analytical problems encountered in attempts to characterize and localize metabolized insecticide residues in food products. *Food Technol., London*, 8 (5, Suppl.). 1954, 36.
- Gunther, F. A., Barnes, M. M., and Carman, G. E.:** Removal of DDT and parathion residues from apples, pears, lemons, and oranges. *Advances Chem. Ser.* 1. 1950, 137-142.
- Gunther, F. A., and Blinn, R. C.:** Analysis of insecticides and acaricides; a treatise on sampling, isolation and determination including residue methods. (Chemical Analysis; a Series of Monographs on Analytical Chemistry and its Applications 6.) Interscience publishers, London/New York 1955. 696 p.

- Gunther, F. A., and Blinn, R. C.:** Persisting insecticide residues in plant materials. *Ann. Rev. Ent. (Calif.)* 1. 1956, 167-180. — *Bull. signal., Paris*, 18. 1957, 156.
- Gunther, F. A., and Blinn, R. C.:** Pesticides residues: basic principles for quantitative determination. *J. agric., Food Chem., Washington*, 1. 1953, 325-330. — *Bull. analyt., Paris*, 15. 1954, 982. — *Chem. Zentralbl.* 126. 1955, 11 081.
- Haller, H. L.:** Determining new insecticides in formulations and residues. *Advances Chem. Ser.* 1. 1950, 65-71. — *Chem. Zentralbl.* 125. 1954, 9375.
- Hornstein, I.:** Spectrophotofluorometry for pesticide determinations. *J. agric., Food Chem., Washington*, 6. 1958, 32-34.
- Hurtig, H., Mann, S. L. W., Hopewell, W. W., and Gravells, R.:** A new technique for sampling and assessing aerial spray deposits. (Insecticides.) *Canad. J. agric. Sci., Ottawa*, 36. 1956, 81-94. — *Bull. signal., Paris*, 17. 1956, 2878.
- Jones, L. R., and Riddick, J. A.:** Separation of organic insecticides from plant and animal tissues. *Analyt. Chem., Washington*, 24. 1952, 569-571.
- Keiser, I., and Henderson, C. F.:** A method for determining insecticide residues per unit of leaf surface. *J. econ. Ent.* 44. 1951, 1026-1027.
- Loesecke, H. W. v.:** *Food. Analyt. Chem., Washington*, 29. 1957, 647-656.
- Lykken, L., Mitchell, L. E., and Woogerd, S. M.:** Sampling crops for residue analyses. *J. agric., Food Chem., Washington*, 5. 1957, 501-505.
- Otter, I.:** Methoden zur Rückstandsbestimmung von Insektiziden in pflanzlichem Material. *Mikrochemie, Wien*, 1956, Nr. 1-3, S. 125-133. — *Bull. signal., Paris*, 17. 1956, 2121.
- Owen, P. C.:** Rapid estimation of the areas of the leaves of crop plants. *Nature, London*, 180. 1957, 611.
- Poos, F. W., Dobbins, T. N., and Carter, R. H.:** Sampling forage crops treated with organic insecticides for determination of residues. *US Bur. Ent., Plant Quar., Washington*, E-793. 1950, 12 p.
- Radeleff, R. D.:** Omentectomy of cattle for studying insecticide residue in the body. *Vet. Med., Chicago*, 45. 1950, 125-128.
- Ramsey, L. L.:** Report on metals, other elements and residues in foods. *J. Assoc. off. agric. Chemists, Washington*, 37. 1954, 574-575.
- Ramsey, L. L.:** Report on metals, other elements and residues in foods. (Captan, Malathion, Methoxychlor, Aldrin, Nicotin, Na-o-phenylphenate, Lindane, Technical BHC, Diphenyl, Dichlone, Chlordane, Heptachlor, Thiram, Dithiocarbamates, Sulphenone, TDE (DDD), Aramite.) *J. Assoc. off. agric. Chemists, Washington*, 40. 1957, 210-218.
- St. John, J. L.:** Pesticides. *Analyt. Chem., Washington*, 25. 1953, 42-47.
- St. John, J. L.:** Pesticides. Analysis of insecticides and other economic poisons. *Analyt. Chem., Washington*, 27. 1955, 654-660.
- Schechter, M. S., and Hornstein, I.:** Chemical analysis of pesticide residues. *Advances in Pest Control Research (Interscience publishers, Inc., NewYork/London)* vol. 1, p. 353-447.
- Seidel, E.:** Untersuchungen auf Kontaktinsektizidspuren in Tiermaterial im Jahre 1955. *Monatsh. Vet.med., Leipzig*, 11. 1956, 636-637.
- Stute, K.:** Methoden zum Nachweis von Herbiziden und Insektiziden in toten Bienen. *Ztschr. Bienenforsch.* 3. 1956, 103-116.
- Stute, K.:** Möglichkeiten des Nachweises von Insektiziden in toten Bienen. *Anz. Schädl.kunde* 30. 1957, 97-99.

- Suter, R., Delley, R., und Meyer, R.:** Analysenmethoden einiger neuer Schädlingsbekämpfungsmittel. (Diazinon, Chlorbenzilat und Isolan.) Ztschr. analyt. Chemie 147. 1955, 173-184.
- Tobey, E. R.:** Commercial agricultural seeds, 1950; fungicides and insecticides, 1950. Analyses. Maine agric. Exp. Stat. Off. Insp. 218. 1950, 37 p.
- Tornow, E.:** Nachweis von Gift und Unkraut im Getreide und Mehl. Salesianische Offizin, München 1952. 56 S.
- Van Middelem, C. H.:** Analytical and sampling procedures for determining parathion, DDT and other organic insecticide residues on vegetables. Florida agric. Exp. Stat. Ann. Rept. 1956, 102.
- Westlake, W. E.:** Pesticides. Analyt. Chem., Washington, 29. 1957, 679-683.
- Wichmann, H. J.:** Report on metals, other elements and residues in foods. J. Assoc. off. agric. Chemists, Washington, 33. 1950, 585-591; 34. 1951, 524-529. — Chem. Zentralbl. 125. 1954, 7075.
- Wichmann, H. J.:** Report on metals, other elements, and residues in foods (Cu, Zn, F, Hg, DDT, HCH, Methoxychlor, Chlordan, Heptachlor, Aldrin, Dieldrin, Parathion). J. Assoc. off. agric. Chemists, Washington, 35. 1952, 530-537. — Bull. analyt., Paris, 15. 1954, 1380.
- Wyatt, P. F.:** Diethylammonium diethyl-dithiocarbamate for the separation and determination of small amounts of metals. II. The isolation and determination of arsenic, antimony, and tin in organic compounds (such as foods). Analyst, London, 80. 1955, 368-379.
- Annotated bibliography of analytical methods for pesticides. II. Insecticides, herbicides, fungicides, rodenticides.** Nat. Res. Council, Food, Nutrit. Bd., Publ. 241. 1954, 178 p.
- Florida State Chemist:** Annual report; fertilizers, feeds, foods, drugs and cosmetics, insecticides and fungicides, year ending December 31, 1950. (Analyses.) Tallahassee 1951. 236 p.
- Florida State Chemist:** Annual report; fertilizers, feeds, foods, drugs and cosmetics, pesticides and seeds, year ending December 31, 1955. (Analyses.) Tallahassee 1956. 139 p.
- Nachweis von Insektizidspuren auf behandelten Lebensmitteln.** (Orig. engl.) Chem. Age, London, 62. 1950, 295-296. — Chem. Zentralbl. 121. 1950, 2727.
- North Carolina insecticide report for 1953.** (Analyses.) North Carolina Dept. Agric. Bull. 134. 1954, 154 p.
- Pesticides, economic poisons, 1953-1954.** (Analyses.) Calif. Dept. Agric. Spec. Publ. 253. 1954, 212 p.
- Virginia Department of Agriculture and Immigration, Division of Chemistry and Foods:** Annual report of economic poisons (pesticides) for the year 1955. (Analyses) Richmond 1956. 60 p.

2. Biologische Bestimmungsmethoden. (Bestimmung von Insektiziden, Fungiziden, Prüfung auf Geschmacksbeeinflussung)

Afridi, M. K., Husian, M. Z. Y., Naqvi, S. H., and Majid, A.: A simple biological method of testing the toxicity of residual insecticides. Indian J. Malariol., Calcutta, 8. 1954, 229-234.

Angelotti, R., Fletcher, J. A., Brown, H. D., and Weiser, H. H.: Detection of fungicides and insecticides by microbiological techniques. (On fruit and vegetables.) Proc. amer. Soc. hortic. Sci. 63. 1954, 285-288.

- Bombosch, S.:** Möglichkeiten und Grenzen der Identifizierung von Kontaktinsektiziden durch den biologischen Test. Mitt. Biol. Bundesanst., Berlin-Dahlem, H. 85. 1956, 113-117. — Bull. signal., Paris, 17. 1956, 2877.
- Bradley, R. A.:** Statistical methods in taste testing and quality evaluation. Biometrics, Washington, 9. 1953, 22-38.
- Briant, A. N., Gould, W. A., Henning, J. C., Hinreiner, E., Kramer, A., MacLinn, W. A., Ross, E., Sather, L., Tompkins, M. D., and Weckel, K. G.:** Studies leading to the development of a "standardized procedure" for making flavor evaluations of canned foods treated with chemical pesticides. (Abstr.) Food Technol., London, 8 (5, Suppl.). 1954, 37.
- Burchfield, H. P., and Hartzell, A.:** A new bioassay method for evaluation of insecticide residues. J. econ. Ent. 48. 1955, 210-214.
- Burchfield, H. P., Hilchey, J. D., and Storrs, E. E.:** An objective method for insecticide bioassay based on photomigration of mosquito larvae. Contrib. Boyce Thompson Inst. 17. 1952, 57-86.
- Bushland, R. C.:** Attempts to utilize mosquito (*Aedes aegypti*) larvae in a bioassay method for insecticide residues in animal products. (Butter fat and beef fat.) J. econ. Ent. 44. 1951, 421-423.
- Cook, J. W.:** Report on enzymes. (Method for insecticide determination.) J. Assoc. off. agric. Chemists, Washington, 39. 1956, 690-691.
- Cook, J. W.:** Report on determination of insecticides by enzymatic methods. J. Assoc. off. agric. Chemists, Washington, 37. 1954, 561-564; 38. 1955, 664-669.
- Davidow, B., and Laug, E. P.:** A surface aliquot masking technique for the bioassay of lindane. J. econ. Ent. 48. 1955, 659-661.
- Davidow, B., and Sabatino, F. J.:** Biological screening test for chlorinated insecticides. J. Assoc. off. agric. Chemists, Washington, 37. 1954, 902-905.
- Davis, A. C.:** The bioassay — for analysis of toxic spray residues. Food Packer, New York, 32 (11). 1951, 35-36. — Farm Res. (New York Stat.) 17 (3). 1951, 3.
- Dimond, A. E., and Waggoner, P. E.:** Bioassay of mercury vapor arising from a phenyl mercury compound. Plant Physiol., Lancaster, 30. 1955, 374-376.
- Eichler, W.:** Biologische Testung von Kontaktinsektizidspuren bei Haustierversgiftungsfällen. Proc. 15th int. Vet. Congr., Stockholm, 1953, 484-486.
- Falscheer, H. O., and Cook, J. W.:** Report on enzymatic methods for insecticides. Studies on the conversion of some thionophosphates and a dithiophosphate to in vitro cholinesterase inhibitors. J. Assoc. off. agric. Chemists, Washington, 39. 1956, 691-697. — Bull. signal., Paris, 18. 1957, 676.
- Fisher, R. W., and Smallman, B. N.:** Studies on a direct feeding method for use in bioassay of insecticides residues. (Experiments with *Drosophila melanogaster*.) Canad. Entomologist 86. 1954, 562-569.
- Fransen, J. J., und Kerssen, M. C.:** Biologischer Test auf Dieldrin-Rückstände. (Orig. holländ., engl. Zusammenfassung.) Tijdschr. Plantenziekten 60. 1954, 276-280.
- Frawley, J. P., Laug, E. P., and Fitzhugh, O. G.:** A procedure for the biological assay of insecticides by oral administration to flies. J. Assoc. off. agric. Chemists, Washington, 35. 1952, 741-745.
- Frawley, J. P., Laug, E. P., and Fitzhugh, O. G.:** The in vivo inhibition of fly cholinesterase as a measure of microgram quantities of organic phosphate insecticides. J. Assoc. off. agric. Chemists, Washington, 35. 1952, 745-748.

- Gernon, G. D.:** Biological assay of insecticides in processed vegetables. (Using *Drosophila melanogaster* as the assay organism.) Diss. Abstr. 15. 1955, 2157.
- Giang, P. A., and Hall, S. A.:** Enzymatic determination of organic phosphorus insecticides. *Analyt. Chem.*, Washington, 23. 1951, 1830-1834.
- Giang, P. A., Smith, F. F., and Hall, S. A.:** Enzymatic estimation of dimethyl 2,2-dichlorovinyl phosphate spray residues. *J. agric., Food Chem.*, Washington, 4. 1956, 621-622.
- Hall, W. C., and Johnson, S. P.:** A bioassay for hormone contamination of insecticides. *Texas agric. Exp. Stat. Progr. Rept.* 1421. 1951, 5 p.
- Hartman, J.:** A possible objective method for the rapid estimation of flavors in vegetables. *Proc. amer. Soc. hortic. Sci.* 64. 1954, 335-342.
- Hartzell, A.:** Bioassay of organic insecticides in processed foods. *J. econ. Ent.* 45. 1952, 1102.
- Hartzell, A.:** Toxicity of spray residue of fresh and processed fruits and vegetables. (Bioassay with mosquito larvae for detection of insecticide residues.) *Advances Chem. Ser.* 1. 1950, 99-101.
- Hartzell, A., and Storrs, E. E.:** Bioassay of insecticide spray residues in processed food. *Contrib. Boyce Thompson Inst.* 16. 1950, 47-53.
- Hartzell, A., Storrs, E. E., and Burchfield, H. P.:** Comparison of chemical and bioassay methods for the determination of traces of chlordane and heptachlor in food crops. *Contrib. Boyce Thompson Inst.* 17. 1954, 383-396. — *Ztschr. analyt. Chemie* 145. 1955, 152.
- Helm, E., and Trolle, B.:** Selection of a taste panel. *Wallerstein Lab. Commun.* 9. 1946, 181.
- Hoskins, W. M., and Messenger, P. S.:** Microbioassay of insecticide residues in plant and animal tissues. *Advances Chem. Ser.* 1. 1950, 93-98.
- Hoskins, W. M., Witt, J. M., and Erwin, W. R.:** Bioassay of 1, 2, 3, 4, 5, 6-hexachlorocyclohexane (Lindane); some factors influencing the contact of chemical and test insect and methods for standardizing the process. (Use of houseflies for bioassay of residues.) *Analyt. Chem.*, Washington, 24. 1952, 555-560.
- Janok, J., und Kemka, R.:** Enzymatische Bestimmung kleiner Mengen insektizider Phosphorverbindungen. (Parathion in the air after spraying beet.) (Orig. tschech.) *Chem. Zvesti* 10. 1956, 177-182.
- Keller, H.:** Die Bestimmung kleinster Mengen DDT auf enzymanalytischem Wege. *Naturwissenschaften* 39. 1952, 109.
- Klein, A. K., Laug, E. P., Tighe, J. F., Ramsey, L. L., Mitchell, L. C., and Kunze, F. M.:** Biological assay of endrin in leafy vegetables and its confirmation by paper chromatography. *J. Assoc. off. agric. Chemists*, Washington, 39. 1956, 242-253.
- Kocher, C., Roth, W., und Treboux, J.:** Bestimmung kleiner Mengen Insektizide mit *Daphnia pulex* de Geer. *Mitt. schweiz. ent. Ges.* 26. 1953, 47-55.
- Kramer, A.:** The use of the triangular and multiple comparison taste panel methods for detecting possible off-flavors in vegetables treated with insecticides. *Food Technol.*, London, 8 (5, Suppl.). 1954, 36-37.
- Kramer, A., and Ditman, L. P.:** A simplified variable test panel method for detecting flavor changes in vegetables treated with pesticides. *Food Technol.*, London, 10. 1956, 155-159. — *Bull. signal.*, Paris, 17. 1956, 2550.
- Lamb, F. C.:** Development of a simplified bioassay procedure for determining insecticide residues in raw and canned products. (Use of *Musca domestica*.) *Nat. Canners Assoc. Inform. Let.* 1526. 1955, 105-106.

- Laug, E. P.:** A biological assay method for determining DDT. *J. Pharmacol., exp. Therap.*, Baltimore, 86. 1946, 324-331.
- Leben, C., and Keitt, G. W.:** A bioassay for tetramethylthiuramdisulfide. (*Glomerella cingulata* as assay organism.) *Phytopathology* 40. 1950, 17, 950-954.
- Marchand, J. F.:** Microtests for cholinesterase; interpretation after nerve gas or agricultural insecticide exposures. *J. amer. med. Assoc.* 149. 1952, 738-740.
- Mason, D. D., and Koch, E. J.:** Problems in the design and statistical analysis of taste tests. *Biometrics*, Washington, 9. 1953, 39-46.
- Michael, A. S., Thompson, C. G., and Abramovitz, M.:** *Artemia salina* as a test organism for bioassay. (Insecticide residue detection.) *Science, Lancaster*, 123. 1956, 464.
- Michael, A. S., Thompson, C. G., and Abramovitz, M.:** Use of brine shrimp for the detection of insecticide residues. *US agric. Res. Admin., Res. Achievem. Sheet* 33 (15). 1956, 4 p.
- Newman, J. F.:** Organo-phosphorus insecticides. *Biological assay. Chem. and Ind. (Rev.)*, London, 1954, 617-619.
- Nolan, K., and Wilcoxon, F.:** Method of bioassay for traces of parathion in plant material. *Agric. Chem.*, Baltimore, 5 (1). 1950, 53, 74.
- Olson, R. E.:** The use of the fruit fly, *Drosophila melanogaster*, as a bioassay in detecting minute quantities of benzene hexachloride in plant tissue. *Diss. Abstr.* 14. 1954, 1876.
- Ostrovskii, N. I.:** Biologische Methode zur Bestimmung von DDT und HCH in Honig, Honigbrot und in toten Bienen. (Orig. russ.) *Pchelovodstvo (USSR)* 31(10). 1954, 56-57.
- Pagan, C., and Hageman, R. H.:** Determination of DDT by bioassay. *Science, Lancaster*, 112. 1950, 222-223. — *Chem. Zentralbl.* 122. 1951, 489.
- Pal, R., and Sharma, M. I. D.:** Microbioassay method for DDT. (Residual effectiveness against *Aedes aegypti*.) *Indian J. Malariol., Calcutta*, 6. 1952, 275-280.
- Pankaskie, J. E., and Sun, Y. P.:** Bioassay of certain insecticidal residues by exposing *Drosophila melanogaster* Meig. to macerated food. III. Congr. int. *Phytopharm.*, Paris, 1952, Vol. II (Commun. sci.). 1954, 52-55.
- Pfaff, W.:** Der Daphnientest zum Nachweis von Kontaktinsektiziden. *Ztschr. Pfl.-krankh.* 62. 1955, 361-370.
- Prescott, G. C., Emerson, H., and Ford, J. H.:** Pesticide residues. Determination of cycloheximide (actidione) residues in cherries. *J. agric., Food Chem.*, Washington, 4. 1956, 343-345. — *Bull. signal.*, Paris, 17. 1956, 2550.
- Sander, E., and Allison, P.:** Bio-assay of the translocated fungicide, 2-pyridinethiol-1-oxide in cucumber seedlings. *Phytopathology* 46. 1956, 25.
- Seume, F. W.:** Ein Beitrag zur Zucht von *Daphnia magna* Straus. *Anz. Schädl.-kunde* 30(2). 1957, 25-27.
- Straller, R.:** Der Nachweis von E 605 sowie anderen cholinesterase-hemmenden Insektiziden mit dem Blutegel. *Diss. naturw. Fak. Univ. Erlangen* 1957.
- Stute, K.:** Bestimmung kleinster Mengen von Kontaktinsektiziden in Mehlen mit Hilfe eines biologischen Testes. *Nachr. bl. dtsh. Pfl.schutzd.*, Braunschweig, 6. 1954, 91-94.
- Sun, J. Y. T., and Sun, Y. P.:** Microbioassay of insecticides in milk by a feeding method. *J. econ. Ent.* 46. 1953, 927-930.

- Sun, Y. P., and Pankaskie, J. E.:** *Drosophila* (melanogaster), a sensitive insect for the microbioassay on insecticide residues. *J. econ. Ent.* 47. 1954, 180-181.
- Sun, Y. P., and Sun, J. Y. T.:** Microbioassay of insecticides, with special reference to aldrin and dieldrin. *J. econ. Ent.* 45. 1952, 26-37.
- Wasserburger, H. J.:** Ein biologischer Test zum quantitativen Nachweis synthetischer Kontaktinsektizide. *Anz. Schädl.kunde* 26. 1953, 151-152.
- Wollerman, E. H., and Putman, L. S.:** Daphnids help to screen systemics. (*Daphnia pulex*.) *J. econ. Ent.* 48. 1955, 759-760.
- Wylie, W. D.:** Determination of insecticide residues in soil by using *Drosophila*. *J. econ. Ent.* 49. 1956, 638-640. — *Bull. signal., Paris*, 18. 1957, 1759.
- Zimmerman, P. W., Hitchcock, A. E., and Kirkpatrick jr., H.:** Detection and determination of 2,4-D as a contaminant by biological methods. *Contrib. Boyce Thompson Inst.* 16. 1952, 439-449.