

A List of Scientific Papers

Published in Other Journals by the Staff of the Institute and their Co-workers during the Year 1955

(Papers marked with (*) are written in English, otherwise
they are written in Japanese)

- Ikutaro SAWAI, Katsuaki TAKAHASHI and Hiroshi JINNO : Studies on Glass Tank Furnace. (III). Role of the Convection Current. *Memoirs of the Faculty of Engineering, Kyoto University*, **17**, 186.
- Ikutaro SAWAI, Kaoru UMEYA, Tomozo NISHIKAWA and Susumu KAWAMOTO : On the Dynamic Measurement of the Casting Process. *Zairyo Shiken (Journal of Japan Society for Testing Materials)*, **4**, 447.
- Ikutaro SAWAI, Kaoru UMEYA, Tomozo NISHIKAWA and Susumu KAWAMOTO : On the Viscosity Measurement of High Concentrated Clay Slips. *Ibid.*, **4**, 581.
- Ikutaro SAWAI and Toshio MAKI : Some Properties of the Clinker of the System BaO-Al₂O₃-SiO₂. *Ibid.*, **4**, 576.
- Yuzo INOUE, Yasuhiko TAKESHITA and Minoru OHNO : Studies on Synthetic Pyrethroids. Part V. Synthesis of Geometrical Isomers of Chrysanthemum Dicarboxylic Acid. *Botyu-Kagaku (Scientific Insect Control)*, **20**, 102.
- *Yuzo INOUE, Yasuhiko TAKESHITA and Minoru OHNO : Studies on Synthetic Pyrethroids. Part V. Synthesis of Geometrical Isomers of Chrysanthemum Dicarboxylic Acid. *Bulletin of the Agricultural Chemical Society of Japan*, **19**, 193.
- Yuzo INOUE and Minoru OHNO : Studies on Synthetic Pyrethroids. Part VI. Mechanism of Addition of Ethyl Diazoacetate to Ethyl α,δ -Dimethylsorbate. *Botyu-Kagaku (Scientific Insect Control)*, **20**, 136.
- Yuzo INOUE and Minoru OHNO : Studies on Synthetic Pyrethroids. Part VII. Reduction of Chrysanthemum Carboxylic Acids by Lithium Aluminum Hydride. *Ibid.*, **20**, 149.
- Sumio NAGASAWA : Studies on the Biological Assay of Insecticides. XXVIII. Comparison of the Toxicity of Aldrin, Dieldrin and *p,p'*-DDT to Pupae of the Common House Mosquito, *Culex pipiens var. pallens* Coquillett. *Ibid.*, **20**, 12.
- Sumio NAGASAWA and Bunji HASHIZUME : Studies on the Biological Assay of Insecticides. XXXII. On the Knockdown Effect of α -dl-Transallethrin Kerosene Solution to Adults of the Common Housefly, *Musca domestica vicina* Macq. *Ibid.*, **20**, 47 ; XXXIII. On the Recovery Time of Adults of the Common House Fly, *Musca domestica vicina* Macq., from the Knockdown Paralysis of Pyrethrins. *Ibid.*, **20**, 52 ; XXXIV. On the Knockdown Effect of *p,p'*-Kerosene Solution to Adults of the Common House Fly, *Musca domestica vicina* Macquardt. *Oyo-Kontyu (Applied Entomology)*, **11**, 122.
- Sumio NAGASAWA : On the Relation between the Time until the Glass Slide is pulled out after the Spray of *p,p'*-DDT Kerosene Solution in the Settling Mist Apparatus and the Knockdown Time of Adults of the Common House Fly, *Musca domestica vicina* Macq. Studies on the Biological Assay of Insecticides. XXXV. *Botyu-Kagaku (Scientific Insect Control)*, **20**, 90.
- Sumio NAGASAWA and Bunji HASHIZUME : Problems on the Breeding of Insects for Biological Assay of Insecticides. IX. On the Time that the Eggs or Larvae are transferred to Culture Medium in the Mass Culture of the Common House Fly, *Musca domestica vicina* Macq., with Residual Product of Tofu Making. *Ibid.*, **20**, 93.
- Sumio NAGASAWA : Problems on the Breeding of Insects for Biological Assay of Insecticides. VIII. On the Growth of the Head Capsule between Instars in Larvae of the Common Cab-

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- bage Butterfly, *Pieris rapae crucivora* Boisduval. *Ibid.*, 20, 70; XI. On the Growth of the Head Capsule between Instars in Larvae of the Cabbage Armyworm, *Barathra brassicae* L. *Ibid.*, 20, 133; XII. On the Length of Elytra of the Azuki Bean Weevil, *Callosobruchus chinensis* L. *Shin-Kontyu (New Entomology)*, 8 (11), 2.
- Sumio NAGASAWA : On the *Chrysozonia*-species Found in and around the Kouzu-Pasture. *Oyo-Kontyu (Applied Entomology)*, 10, 192.
- Sumio NAGASAWA : Problems on the Breeding of Insects for Biological Assay of Insecticides. X. On the Relation between Food Plants and Duration of Development of the Common Cabbage Butterfly, *Pieris rapae crucivora* Boisduval, and the Growth of Width of Head Capsule between Larval Instars. *Ibid.*, 11, 163.
- Hajime FUJIMURA, Hajime TOMONO and Yutaka YAMAKAWA : Pharmacological Studies of Various Organic Acid Esters or Amides Contained Dialkylaminoalkyl. (I). Analgesic Action of β -Dimethylaminoethylbenzolic Acid Amide Hydrochloride. *Nippon Yakuri gaku Zasshi (Folia Pharmacologica Japonica)*, 51, 70.
- Hajime FUJIMURA *et al.* : Pharmacological Studies on the Aminocyclohexane Derivatives. (3). *Ibid.*, 51, 199.
- Tomio SEGAWA : The Effect of Some Drugs on the Conduction Velocity in Toad Heart Muscle. *Ibid.*, 51, 682.
- *Kikuo OGIU, Akira YANAI *et al.* : The Action of Morphine and Strychnine on the Spinal Reflex Response of the Cat. *Japanese Journal of Pharmacology*, 5, 48.
- Kikuo OGIU, Hajime FUJIMURA *et al.* : Pharmacological Studies of Aminocyclohexane Derivatives. (2). Local Anesthetic Action, Spasmolytic Action, and Supplementary Analgesic Action. *Yakugaku Zasshi (Journal of the Pharmaceutical Society of Japan)*, 75, 336.
- *Ren KIMURA, Susumu HOTTA, T. FUJII, Iwao TANABE, Y. HASHIMOTO, T. INOUE and T. FUJITA : The Uptake of Radioactive Phosphorus into Phosphorus Compounds in the Brains of Virus-Infected Mice. *Experientia*, 10, 160.
- *Ren KIMURA, Yohei ITO and Yoshikatsu OZAKI : An Electron Microscopic Study on the Thiamine Decomposing Bacterium, *Bacillus aneurinolyticus* Kimura et Aoyama. *Journal of Vitaminology*, 1, 61.
- *Yohei ITO and Akio OHYAMA : Some Evidences Relating with Growth-Promoting Factor for Tissue Culture. *Acta S-holae Medicae Universitatis in Kioto*, 33, 86.
- *Ren KIMURA, Yohei ITO and Yoshikatsu OZAKI : Studies on the Thiamine Decomposing Bacterium. VII. Preliminary Report on Flagellae of *Bacillus aneurinolyticus* Kimura et Aoyama, with Relation to its Motility and Process of Sporulation. *Ibid.*, 32, 142.
- *Ren KIMURA, Yohei ITO and Tao Hsing LIAO : Studies on the Thiamine Decomposing Bacterium. IX. Chemical Constituents of Thiamine Decomposing Bacterium as Investigated by Chromatography. *Ibid.*, 32, 179.
- *Hideo KATAGIRI and Kazutami IMAI : Studies on Lactic Acid Fermentation. Part 1. *Bulletin of the Agricultural Chemical Society of Japan*, 19, 9; Part 2. *Ibid.*, 19, 15.
- Tetsugo HAYASHI, Tadao ITO and Hideo KATAGIRI : Studies on the Industrialization of Fermentation-Retting. On Fermentation Tank. *Hakko Kagaku Zasshi (Journal of Fermentation Technology of Japan)*, 33, 337.
- Sei TACHIBANA and Hideo KATAGIRI : On Sugar Compounds of Riboflavin. Biosynthesis of a New Riboflavinyl Glucoside by *Asp. oryzae*. *Vitamins*, 8, 304.
- Sei TACHIBANA and Hideo KATAGIRI : Biosynthesis of a New Riboflavin Phosphate by *Asp. oryzae*. *Ibid.*, 8, 309.
- Yoshio ICHIKAWA : Microbiological Studies on Propionic Acid Bacteria. Part 1. Isolation of Propionic Acid Bacteria from Cow Milk. *Nippon Nogyo Kagaku Kaishi (Journal of Agricultural Chemical Society of Japan)*, 29, 241; Part 2. Anaerobic Decomposition of the Substrate. *Ibid.*, 29, 353; Part 3. Formation of Propionate from Succinate. *Ibid.*, 29, 357; Part 4. On the Aerobic Decomposition Revealed by Propionic Bacterium *arabinosum*. *Ibid.*, 29, 361.
- Seizo OKAMURA and Takuhiko MOTOYAMA : Studies on the Emulsion Polymerization in the Presence of Emulsifiers. (VIII). Emulsion Polymerization of Methyl Acrylate. *Kobunshi Ka-*

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- Ichiro SAKURADA, Yasuhiko NUKUSHINA and Noboru MORI: X-Ray Estimation of Crystallinity of Polyvinyl Alcohol Fibers by Geiger Counter. (I). Preparation of Specimens, which have Different Crystallinity but the same Orientation of Crystalline Regions. *Ibid.*, **12**, 202; (II). Calculation of the Crystallinity from Intensity Curves. *Ibid.*, **12**, 307; (III). An Examination for Changes in the Crystallinity by the Formation of Polyvinyl Alcohol Fibers. *Ibid.*, **12**, 311.
- Ichiro SAKURADA and Yasuhiko NUKUSHINA: X-Ray Estimation of Crystallinity of Polyvinyl Alcohol Films with a Counter. *Ibid.*, **12**, 483.
- Ichiro SAKURADA, Yasuhiko NUKUSHINA and Yasuo SONE: Studies on the Swelling of Polyvinyl Alcohol. (I). Relation between Crystallinity and Swelling of Polyvinyl Alcohol with Various Degrees of Polymerization. *Ibid.*, **12**, 506; (II). Behavior of Crystalline Region at the Swelling. *Ibid.*, **12**, 510; (III). On the Change of Crystallinity in Course of Drying after Swelling. *Ibid.*, **12**, 514; (IV). Influence of the Condition of Film Preparation and Heat Treatment on Swelling and Crystallinity of Polyvinyl Alcohol Films. *Ibid.*, **12**, 517.
- Noboru MORI and Takeshi TANAKA: Studies on the Improvement of Tensile Recovery of Vinyon. (II). On the Relation between the Tensile Recovery and Stretching, and Heat Treatment of Vinyon, *Sen-i Gakkaishi* (*Journal of the Society of Textile and Cellulose Industries, Japan*), **11**, 459; (III). On the Relation between Formalization and the Tensile Recovery of Vinyon. *Ibid.*, **11**, 462.
- Ichiro SAKURADA, Noboru MORI, Takeshi TANAKA, Kiyoshi SAKURAI and Osamu YASUTAKE; Studies on the Improvement of Tensile Recovery of Vinyon. (IV). Elastic Recovery of Polyvinyl Alcohol Fibers after Acetalization with Various Aldehyde. *Ibid.*, **11**, 526.
- Noboru MORI, Takeshi TANAKA, Naobumi NAKAMURA and Kiyoshi SAKURAI: Studies on the Improvement of Tensile Recovery of Vinyon. (V). Some Properties of Nonalized Polyvinyl Alcohol Fibers (Vinyon N) and Mixes Acetalization with Nonylaldehyde and Formaldehyde. *Ibid.*, **11**, 531.
- Noboru MORI, Takeshi TANAKA and Koji FUKUMI: Studies on the Polyvinyl Chloride Fiber with Different Degrees of Polymerization and Composition. *Ibid.*, **11**, 530.
- Michiharu NEGISHI, Ichiro SEKIGUCHI, Noboru MORI and Sadayuki OKADA: Preparation of Synthetic Fibers from a Mixture of Polyvinyl Alcohol and Polyvinyl Cyanooethyl Ether. *Ibid.*, **11**, 384.
- Kiyoshi HIRABAYASHI: Fine Structure of Polyvinyl Alcohol Fiber. *Kasen Koenshu* (*Reports of the Research Institute of Chemical Fiber*), **12**, 9.
- Waichiro TSUJI and Toshio OKADA: Studies on the Electro Static Phenomenon of Fibers. *Ibid.*, **12**, 42.
- Ichiro TSUJI, Noboru MORI and Osamu YASUTAKE: The Effect of Acetalization on the Tensile Recovery of Vinyon. *Ibid.*, **12**, 76.
- *Shinjiro KODAMA, Akira MAZUME, Koso FUKUBA and Ken-ichi FUKUI: Reaction Rate of Water-Gas Shift Reaction. *Bulletin of the Chemical Society of Japan*, **28**, 318.
- *Junji FURUKAWA: A Kinetic Interpretation of the Rheological Behavior of High Polymers. *Journal of Polymer Science*, **15**, 193.
- *Takayuki FUENO, Teiji TSURUTA and Junji FURUKAWA: Quaternary Anilinium Salt as an Initiator for Vinyl Polymerization. *Ibid.*, **15**, 594.
- *Teiji TSURUTA: A Reaction of Malonic Ester with Vinyl Acetate. *Bulletin of the Chemical Society of Japan*, **28**, 231.
- *Teiji TSURUTA, Hiroyuki KOMATSUBARA and Junji FURUKAWA: A Kinetic Study on the Vinylation of Alcohol. *Ibid.*, **28**, 552.
- *Teiji TSURUTA, Takayuki FUENO and Junji FURUKAWA: Reactivity of *p*-Nitrotoluene and *p*-Nitrophenylacetic Acid in Alkali Solutions. *Journal of the American Chemical Society*, **77**, 3265.
- Masayoshi ISHIBASHI and Kyoji TOEI: Synthesis and Utilities of New Analytical Reagents

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- for Potassium. I. Di-hexyl. *Nippon Kagaku Zasshi (Journal of the Chemical Society of Japan)*, **76**, 104.
- Masayoshi ISHIBASHI, Tsunenobu SHIGEMATSU, Yuroku YAMAMOTO, Masayuki TABUSHI Toyokichi KITAGAWA: Spectrophotometric Determination of Ferric Iron as Sulfate. *Ibid.*, **76**, 758.
- Masayoshi ISHIBASHI and Shinnosuke HIGASHI: Determination of μg Amount of Thorium. *Bunseki Kagaku (Japan Analyst)*, **4**, 14.
- Masayoshi ISHIBASHI, Taitiro FUJINAGA, Takashi TATSUMI and Kiyoshi HIROSE: Studies on the Controlled Potential Electrolysis. VII. Electrolytic Determination of Nickel in the Presence of Zinc. *Ibid.*, **4**, 365.
- Hisao HAYAKAWA, Masayoshi ISHIBASHI and Taitiro FUJINAGA: Studies on the Controlled Potential Electrolysis. IX. Electrolytic Separation of Copper from Bismuth by Use of EDTA. *Ibid.*, **4**, 610.
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- Nobuji SASAKI and Masaru ONCHI: On Some Properties of Omegatron. *Shitsuryo Bunseki (Mass Spectroscopy)*, No. 5, 14.
- Tatsuo KARIYONE and Shun-ichi NAITO: Studies on the Components of *Carpesium abrotanoides*. III. Chemical Structure of Carpesia Lactone (2). *Yakugaku Zasshi (Journal of the Pharmaceutical Society of Japan)*, **75**, 39; IV. Chemical Structure of Carpesia Lactone (3). *Ibid.*, **75**, 93.
- Tatsuo KARIYONE and Koichiro ISOI: Studies on Plant Waxes. VII. Estolides of Hinoki Leaf Wax (2). *Ibid.*, **75**, 316.
- Tatsuo KARIYONE, Kiyoshi HATA and Yasuo TANAKA: Studies on the Component of *Auge-lica pubescens*. *Ibid.*, **75**, 357.
- Tatsuo KARIYONE and Shun-ichi NAITO: Studies on the Components of *Aristolochia sebilis*. I. *Ibid.*, **75**, 1511.
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- Yoshiyuki INOUE: Chemistry of Hide and Skin. *Nippon Hikaku Gijutsu Kyokaiishi (Bulletin of the Japan Association of Leather Technology)*, **1**, 10.
- *Yoshiyuki INOUE, Manjiro NODA and Osamu HIRAYAMA: Paper Chromatography of Unsaturated Fatty Acid Esters as their Mercuric Acetate Addition Compounds. *Journal of the American Oil Chemists' Society*, **32**, 132.
- *Yoshiyuki INOUE and Manjiro NODA: Separation and Identification of Fatty Acids. XVII. Paper Chromatography of Saturated Fatty Acids as their 2,4-Dinitrophenylhydrazides. *Bulletin of the Agricultural Chemical Society of Japan*, **19**, 214.
- Yoshiyuki INOUE, Konoshin ONODERA and Shozaburo KITAOKA: N-Glycosaminide. I. Preparation and Acetylation of *p*-Toluidine-N-(N'-acetyl)glucosaminide. *Nippon Nogzi Kagaku Kaishi (Journal of the Agricultural Chemical Society of Japan)*, **29**, 139; II. Methylation of *p*-Toluidine-N-(N'-acetyl)glucosaminide. *Ibid.*, **29**, 143; III. The Cyclic Acetyl Derivatives of *p*-Toluidine-N-(N'-acetyl)glucosaminide. *Ibid.*, **29**, 908.
- Yoshiyuki INOUE, Konoshin ONODERA, Tamio TSUJI and Shozaburo KITAOKA: Detritylation of N-(2,3,4-Triacetyl-6-trityl-D-glucosyl)*p*-nitroaniline. *Ibid.*, **29**, 910.
- Koichi NISHIMOTO and Yoshiyuki INOUE: Studies on the Wood Preservatives. XV. On the Properties of the Treated Wood. *Mokuzai Kenkyu (Wood Research)*, **14**, 27.
- Koichi NISHIMOTO, Goro FUSE and Yoshiyuki INOUE: Studies on the Wood Preservatives. XVI. On the Detecting Method of Pentachlorophenol in Wood. *Ibid.*, **14**, 37.
- Yoshiyuki INOUE, Akira KAWAMURA, Keizo WADA and Hiroshi OKAMURA: Studies on

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- Hideo TAKAKI, Masashige KOYAMA and Hidekiyo FUJIHIRA: Studies on Line Structures in Single Crystals in Tin. 1st Report. *Nippon Kinzokugaku Kaishi (Journal of the Japan Institute of Metals)*, 19, 584; 2nd Report. *Ibid.*, 19, 588.
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- Kazuyoshi TAKIYAMA and Eiji SUITO: Qualitative Analysis by Means of Anion Exchange Resin. *Bunshi Kagaku (Japan Analyst)*, 4, 8.
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- *Eiji SUITO and Kazuyoshi TAKIYAMA: Formation and Aging of Precipitates. III. Electron Microscopic Studies on Barium Sulfate Precipitates in Aqueous Alcohol. *Bulletin of the Chemical Society of Japan*, 28, 305.
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- Kiyoshi ABE, Tetsuro TANAKA, Michiharu KAMBARA and Kazuhisa NARUSE: Spattering of Titanium Electrode Covered with Semiconducting Film. *Ibid.*, 1, 191.
- Kiyoshi ABE, Tetsuro TANAKA, Michiharu KAMBARA and Junzo YAMAMOTO: Magnetic Properties of Nickel Ferrites. *Ibid.*, (I) 193.
- Kiyoshi ABE, Tetsuro TANAKA, Michiharu KAMBARA and Junzo YAMAMOTO: Nickel Ferrite as a Magneto-striction Materials. *Ibid.*, (1) 233.
- Kiyoshi ABE, Tetsuro TANAKA, Toshio INOGUTI and Tsugio KAWAI: Polarizing Treatment of Barium Titanate Ceramics. *Ibid.*, (1) 234.
- Kiyoshi ABE, Tetsuro Tanaka, Akira KAWABATA and Tsugio KAWAI: Aging Effects of Barium Titanate Ceramics. *Ibid.*, (1) 235.
- Tetsuro TANAKA, Tsutomu KINOSHITA and Tsugio KAWAI: Improvement of Remote Control Apparatus using BaTiO₃ Coupler. *Ibid.*, (5) 810.
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- *Hisateru MITSUDA and Katsuharu YASMATSU: Crystallization of Animal Catalase and Studies on its Optimum Temperature. *Bulletin of the Agricultural Chemical Society of Japan*, 19, 200.
- *Hisateru MITSUDA and Katsuharu YASUMATSU: Studies on Plant Catalase. *Ibid.*, 19, 208.
- Hiroshi SAWAMURA: Report on the Manufacture of Sponge Iron in Japanese Native Furnaces (Kaku-Gama and Nobori-Gama) during the World War II. (VI). *Suiyokwai-Shi (Transactions of the Mining and Metallurgical Alumni Association)*, 12, 417; (VII). *Ibid.*, 13, 35.
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- Hiroshi SAWAMURA, Kyoichi AKAMATSU, Shinkichi MIYASAKI and Masao YAKUSHIJI : On the Permeability of Pyrite Cinders for Sintering. *Ibid.*, **41**, 180.
- Hiroshi SAWAMURA, Yoshiyuki HOTTA, Teruo OKA and Hiroshi ISHIDA : Influence of Various Elements on Mechanical Properties of Cast Iron Having Eutectic Graphite Structure Produced by Treating Molten Cast Iron with a Slag Containing Titanium Oxide (S-H Cast Iron). (III). Influence of P, S and Mo. *Ibid.*, **41**, 238.
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