Titles of Papers

Read at the 53rd Semi-annual Meeting of the Institute on June 11th and 12th, 1954

- 1. Mamoru KURACHI: Studies on the metabolic products of *Psudomonas aerginosa* sp. (III). On the quantitative determination of pyocyanine. (2).
- 2. Hideo KATAGIRI and Yoshio ICHIKAWA: Studies on the *Propioni-bacterium*. (IV). Anaerobic decomposition of succinate by intact cells, lyophilized cells and cell-free extract of *P. arabinosum*.
- 3. Hideo KATAGIRI, Masayuki IKEMIYA and Harugoro YOMO: Studies on barley malt. Some investigations upon zymogen amylase.
- 4. Kinsuke KONDO, Shigeki MORI and Morikazu KAJIMA: On the components of soybean protein. Change of protein at the stage of germination.
- 5. Kinsuke KONDO, Shigeki MORI and Morikazu KAJIMA: On the components of soybean protein. Separation and purification of soybean β -amylase.
- 6. Hisateru MITSUDA, Katsuharu YASUMATSU and Atsushi NAKAZAWA: Studies on catalase in chloroplasts.
- 7. Hajime FUJIMURA, Takaji UESHIMA, Toshikazu FUJISAWA, Michiyasu SUGII and Toru YAZE: Studies on syntheses and pharmacological action of tetraline derivatives. (1).
- 8. Hajime TOMONO, Yutaka YAMAKAWA, Tatsuo AZUMA and Hajime FUJIMURA: Studies on the alkylamino derivatives. (IV).
- 9. Yutaka YAMAKAWA, Hajime TOMONO, Tatsuo AZUMA and Hajime FUJIMURA: Studies on alkylamino derivatives. (V).
- 10. Kikuo OGIU, Hajime FUJIMURA, Takaji UESHIMA, Toshikazu FUJISAWA and Takashi OYAISU : The analgesic action of aminocylohexane derivatives. (I).
- 11. Senji UTZINO and Ryokuero SUZUE: Separation of phosphatases of Takadiastase by chromatography on filter paper.
- 12. Ren KIMURA and Akio OYAMA : Antibacterial action of nitrofuran derivatives, (III).
- 13. Tokio SASAI, Teinosuke SAKAMOTO and Masao OKA : On the correlation between the amount of α -globulin and mucoprotein in pathologic serum.
- 14. Hiroshi SUDA and Ryohei ODA : Syntheses of the ion-exchange resin.
- 15. Hiroyoshi AKASHI and Ryohei ODA: Reaction between cetene and hydrogen sulfide.
- 16. Hiroyoshi AKASHI and Ryohei ODA: Reaction between benzaldehyde and Fremy salt (Potassium nitroso disulfonate).
- 17. Ryuzaburo NOZU and Toshizo ISOSHIMA: Reaction of ketene with ethyl acetoacetate in the presence of pyridine.
- 18. Ryuzaburo NOZU and Toshizo ISOSHIMA: Reaction of ketene with phenol, resorcine, phloroglucine and dimedone.
- 19. Keiiti SISIDO and Motoo MATO: Cyclialkylation of chlorobenzene with 1, 4-dichloro-2butyne.
- 20. Keiiti SISIDO and Osamu KURIHARA: Condensation of benzophenone and dialkyl homophthalate in the presence of diethylamino-magnesium bromide.
- 21. Keiiti SISIDO and Kenzi KUMAZAWA: Stereochemitry in the aldol type condensation of ketones and esters.
- 22. Keiiti SISIDO, Hitosi NOZAKI and Sigeo TUZI: Acetylation with acetic anhydride in the presence of halogens or hydrogen halides.
- 23. Keiiti SISIDO and Takaaki FUKUSIMA: Synthesis of diglycidyl ether and its reaction with phenol.

- 24. Risaburo NAKAI and Miyako MATSUMOTO: On the condensation products of α , β -unsaturated ketones and cyano acetamide.
- 25. Masayuki HAMADA and Toshio FUJITA: Cyclopropane derivatives. (IV). Structures of diphenylcyclopropanes.
- 26. Masayuki HAMADA : Cyclopropane derivatives. (V). The structure and insecticidal activity of diphenylcyclopropanes.
- 27. Tatsuo KARIYONE and Mitsuo TAKAHASHI: Infrared spectra of sugars and glucosides
- 28. Takeo SUGANO and Rempei GOTO: Solubilization of dyestuffs in aqueous solution of nonionic surfactants.
- 29. Takeo SUGANO and Rempei GOTO: Studies on hydrotropy.
- 30. Nishio HIRAI and Rempei GOTO: Spinnability of liquids. (I).
- 31. Yasuhiko NUKUSHINA and Ichiro SAKURADA: Change of the crystallinity of polyvinyl alcohol films by swelling.
- 32. Noboru MORI, Koji FUKUMI and Takeshi TANAKA: Mechanical properties of polyvinyl chloride fibers of various degrees of polymerization.
- 33. Kiyoshi HIRABAYASHI : Some aspects of submicroscopic structure in P. V. A. fibers.
- 34. Yasuo SONE and Ichiro SAKURADA: Influence of the degree of crystallization and the degree of polymerization upon the solubility of polyvinylalcohol.
- 35. Waichiro TSUJI and Koichi SUGITA: Polymeric plasticizers. A series of polyester. (II). Mixed polyester with azelaic acid and phthalic anhydride.
- 36. Noboru YAMAZAKI, Michihiro TAKAHAMA and Masao HORIO: A study on a semi commercial basis of rayon grade pulp (Kraft process), made from cryptomeria, oak, pasania, tabunoki and beech tree.
- 37. V. P. GOHEL and Michihiro TAKAHAMA: A study on a semi-commercial basis of rayon grade pulp (Kraft process), made from Indian bamboo.
- 38. Toshio INOUE and Michihiro TAKAHAMA: The variation in viscosity of the cellulose acetate dope used in dry spinning. (V).
- 39. Shinjiro KODAMA, Isoji TANIGUCHI, Sachio YUASA, Tadahisa OTA and Yutaka TERADA : Pilot plant test for the continuous preparation of polyethylene.
- 40. Makoto KUMADA, Akira TAKEDA and Kimio TARAMA: On the decomposition rate of Si-Si bond in disilane by NaOC₂H₅.
- 41. Ikutaro SAWAI, Kaoru UMEYA and Tomozo NISHIKAWA: Influence of absorbed cations on the casting properties of clay suspensions.
- 42. Ikutaro SAWAI, Kaoru UMEYA and Tomozo NISHIKAWA: Notes on vacuum dry pressing under high pressure.
- 43. Ikutaro SAWAI, Sumio SAKKA and Ryozo HAYAMI: Diffusion in molten, glasses.
- 44. Hiroshi SAWAMURA, Masatoshi TSUDA, Sanzo NAKAGAWA and Akitsu TOMITA: Studies on cast iron having fine graphite produced by melting cast iron with slag containing TiO₂.
 (V). Influence of chemical composition (nickel and chrome) of cast iron upon the structure of product.
- 45. Hiroshi SAWAMURA, Masatoshi TSUDA, Sanzo NAKAGAWA and Akitsu TOMITA: Studies on cast iron having fine graphite produced by melting cast iron with slag containing TiO₂. (VI). Influence of ferro-titanium upon cast iron melt.
- 46. Isao KUSHIMA and Tsuyoshi AMANURA: On the constitution of zinc-ferrite. (II).
- 47. Shiro MORITA, Ryohei OZAKI, Yutaka KAWANO and Osamu KAWANO: A fundamental study on nodular graphite cast iron. (IV). The influence of Ti on the formation of spheriodal graphite in cast iron.
- 48. Shiro MORITA, Ryohei OZAKI and Hisao SHOBAYASHI: A fundamental study on nodular graphite cast iron. (V). The influence of soda ash treating on the formation of spheroidal graphite in cast iron.
- 49. Shiro MORITA, Ryohei OZAKI and Ikuo YAMAGIWA: A fundamental study on nodular graphite cast iron. (VI). The influence of scale treating on the formation of spheroidal graphite in cast iron.

- 50. Shiro MORITA, Ryohei OZAKI and Yutaka KAWANO: Influence of the melting and casting conditions on the graphitization of white cast irons.
- 51. Shiro MORITA and Ryohei OZAKI : Relations between ultrasonic attenuation in cast iron and steel and their structures.
- 52. Kiyokado NISHIHARA, Yoshio KONDO and Kiyoshi EZAKI : On the recovery of copper from leached solution of pyrite cinder.
- 53. Shigeru MATSUO and Hajime NARUMI: On the theory of interaction between nuclei and electrons.
- 54. Hajime NARUMI and Apollo SAIKA: On the theory of nuclear spin interaction in molecules.
- 55. Toshio AZUMA and Kunihiko TSUMORI: Beta-spectra of Ag¹¹⁰ and Sb¹²⁴.
- 56. Toshio AZUMA and Kunihiko TSUMOR1: Efficiency of Geiger-Müller counter.
- 57. Kenji MITANI : On the build-up mechanism of the microwave gas breakdown.
- 58. Sakae SHIMIZU, Fumio HIRAYAMA, Sunao OKAMOTO and Hiroaki AKAGI: Studies on scintillation counter. (I).
- 59. Kiichi KIMURA, Masateru SONODA, Takuji YANABU, Ryutaro ISHIWARI, Isao KUMABE, Sukeaki YAMASHITA, Kozo MIYAKE and Jiro WUTO: On the electro-magnet for Kyoto cyclotron. (I). Design.
- 60. Kiichi KIMURA, Masateru SONODA, Takuji YANABU, Ryutaro ISHIWARI, Isao KUMABE, Sukeaki YAMASHITA, Kozo MIYAKE, Hisashi YAMAGUCHI and Kyoji HARADA: On the elctro-magnet for Kyoto cyclotron. (II). Test
- 61. Yoshiaki UEMURA, Jun KOKAME and Hidetsugu IKEGAMI : Measurements of the gas amount liberated from the surfaces of several metals.
- 62. Hidetsugu IKEGAMI, Jun KOKAME and Yoshiaki UEMURA.: Theoretical consideration for the mechanism of the probe gas for high vacuum leak-detection.
- 63. Sakae SHIMIZU, Akira KATASE, Hidekuni TAKEKOSHI and Kenji TAKUMI: The preliminary experiments on Kyoto cyclotron oscillator.
- 64. Sakae SHIMIZU, Akira KATASE, Hidekuni TAKEKOSHI, Kenji TAKUMI and Hideko TAKEKOSHI : On the shorting condensor for Kyoto cyclotron.
- 65. Isao TAKAHASHI, Tsuneo HASHI, Osamu RYUZAN and Keiichi TAKIYAMA: Pure quadrupole spectra of several bromine compounds (I).
- 66. Isao TAKAHASHI, Mikio TAKEYAMA and Tanehiro NAKAU : Magnetic resonance absorption of asbestos with 3 cm wave. (II).
- 67. Isao TAKAHASHI, Mikio TAKEYAMA and Hideo SENO: New approximate methods of dielectric measurement in the centimeter wave region. (II)
- 68. Hideo TAKAKI, Masashige KOYAMA and Hidekiyo FUJIHARA: Imperfections in tin single crystals.
- 69. Nobuji SASAKI and Ryuzo UEDA: The electronmicroscopic and micro-diffraction study on the progress of the formation of iron particles from fused Fe_3O_4 by reduction in hydrogen
- 70. Eiji SUITO and Natsu UYEDA: Electron micro-diffraction study of lamellar crystals of lead iodide.
- 71. Eiji SUITO and Natsu UYEDA: Electron micro diffraction study of copper phthalocyamine.
- 72. Eiji SUITO and Eiichi SEKIDO: Electron microscopic study of Cu-oxinate precipitates.
- 73. Eiji SUITO, Masafumi ARAKAYA and Yasuo BANBA: The viscosity of suspension of powders.
- 74. Kiyoshi ABE, Tetsuro TANAKA, Michiharu KANBARA and Junzo YAMAMOTO: Study on spinel-type semiconductor. (IV).
- 75. Kiyoshi ABE, Tetsuro TANAKA, Toshio INOGUCHI and Akira KAWABATA: Bending vibration of combined disc-type BaTiO₃ ceramic vibrator.
- 76. Kiyoshi ABE, Tetsuro TANAKA, Toshio INOGUCHI and Akira KAWABATA : BaTiO₃ ceramic vibatator having spherical surfaces.
- 77. Kiyoshi ABE, Tetsuro TANAKA and Tsuguo KAWAI : BaTiO₃ microphone for underwater uses.
- 78. Kiyoshi ABE, Minoru TOYODA and Ichiro TANIGUCHI: Dipole moments of organosilicon

compounds.

- 79. Kiyoshi ABE, Minoru TOYODA and Yushiro SHIRAISHI: Studies on fluorine resins. (1). On the dielectric properties.
- 80. Naokazu KOIZUMI and Tetsuya HANAI: Dielectric properties of lower-membered polyethylene glycols at low frequencies.
- 81. Naokazu KOIZUMI: Complex dielectric constants of lower-membered polyethylene glycols.

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