Titles of Papers

Read at the 55th Semi-annual Meeting of the Institute on June 10th and 11th, 1955

1. Kiyoshi HIRABAYASHI : Optical Microscopic Studies of Chemically Colored Vinylon.
2. Kiyoshi HIRABAYASHI and Shu TAMAMURA : Section of Fibers for Electron Microscopy.
3. Noboru MORI and Koji FUKUMI : Studies on Fibers from the Mixture of Polyvinylalcohol and Acetalized Polyvinylalcohol with *p*-Dimethylamino-benzaldehyde.
4. Yasuo SONE : Effect of the Residual Acetate Groups on Swelling of Polyvinylalcohol.
5. Noboru OKADA : X-Ray Studies on the Reaction between Polyvinylalcohol and Iodine.
6. Waichiro TSUJI and Toshio OKADA : Studies on the Tribo-Electricity of Textile Fibers. (II). Measuring Apparatus.
7. Waichiro TSUJI and Masazo IMAI : Chemical Treatment of Silk to prevent the Browning and Light Deterioration.
8. Waichiro TSUJI, Kiyoshi HIRABAYASHI, Ryozo KITAMARU, Takuhiko MOTOYAMA, Takao YAMASHITA and Masazo IMAI : Chemical Treatments of Cotton. (II). Partial Acetylation and Partial Carboxymethylation.
9. Yasuhiko NUKUSHINA and Ichiro SAKURADA : On the Crystal Structure of Cellulose. (II).
10. Chugo KUJIRAI : After-effect and Effect of Light Intensity in the Photogradation of Cellulose by Ultraviolet Rays.
11. Hiroshi INAGAKI : Sedimentation Study of Sodium Carboxymethyl Cellulose by the PHYWE's Ultracentrifuge.
12. Hiroshi INAGAKI : On Newly Designed Light-scattering Apparatus and its Calibration.
13. Keinosuke KOBAYASHI, Nobuo UTSUMI and Akira NAKAMURA : Crystalline States of Linear Polymers. (IV). On the Relation between Molecular Lengthes of Celluloses and their Crystallites.
14. Keinosuke KOBAYASHI and Yotsuo GOTO : Crystalline States of Linear Polymers. (V). Microfibril Formation of Synthetic Fibers.
15. Takeo SUGANO, Naomi HAYAMA and Rempei GOTO : Interaction between Dyestuffs and Surfactants.
16. Nishio HIRAI and Rempei GOTO : Types of Breaking by Elongation and Mechanical Model.
17. Hiroshi AIDA, Soichi HAYASHI and Rempei GOTO : Brittle Fracture and Rate of Deformation of Visco-elastic Substances.
18. Ikutaro SAWAI, Kaoru UMEYA and Susumu KAWAMOTO : Dynamic Measurement of the Slip Casting.
19. Ikutaro SAWAI, Kaoru UMEYA and Tomozo NISHIKAWA : Effect of the Thixotropic Properties of Clay Slips on Casting.
20. Ikutaro SAWAI and Toshio MAKI : On the System of BaO-Al_2O_3-SiO_2.
21. Sakae SHIMIZU, Fumio HIRAYAMA and Sunao OKAMOTO : Studies on Polystyrene Scintillator.
22. Sakae SHIMIZU, Sunao OKAMOTO, Fumio HIRAYAMA and Hiroaki AKAGI : A New Pulse-Height Analyzer Using a Single 6BN6 Gated-Beam Tube.
23. Akira KATASE and Hidekuni TAKEGOSHI : On the Cyclotron Oscillator.
24. Akira KATASE and Hidekuni TAKEGOSHI : On the Dee Voltage of the Cyclotron.
25. Toru TAKENAKA and Rempei GOTO : Negative Feedback Resonance Amplifier of Infrared Spectrometer.

26. Rempei GOTO and Toru TAKENAKA : Hydrophilic Property and Infrared Absorption of Alcohols.
27. Akira WATANABE, Fukuju TSUJI and Shizuo UEDA : Study on Surface Electricity. (XXI). On Capacity Measurement of Dropping Mercury Electrodes by Resonance Method. III.
28. Naokazu KOIZUMI : Complex Dielectric Constants of Some Glycols at 18.7 kmc/sec.
29. Kiyoshi ABE, Takeshi KIYONO, Minoru TOYODA, Ichiro TANIGUCHI and Katsutomo KISHIMOTO : Dielectric Characteristics of High Polymeric Materials in the Centimeter Wave Region. (I).
30. Isao TAKAHASHI, Hideo SENO and Mikio TAKEYAMA : An Approximate Method of Dielectric Measurement in the Centimeter Wave Region.
31. Isao TAKAHASHI, Kentaro TASHIRO, Toru OGAWA and M. XAMANO : Study of Stark Modulation Atomic Clock as an Automatic Control System.
32. Kiyoshi ABE, Minoru TOYODA and Ichiro TANIGUCHI : Dipole Moments of Organosilicon Compounds. (V).
33. Kiyoshi ABE, M noru TOYODA, Kenzi SUGIYAMA and Yushiro SHIRAISHI : Studies on the Fluorine Resin. (III). On the Dielectric Breakdown. (2).
34. Kiyoshi ABE. Tetsuro TANAKA, Michiharu KANBARA and Kazuhisa NARSE : Study of TiO_2 Semiconductor. (IV).
35. Kiyoshi ABE, Tetsuro TANAKA, Michiharu KANBARA and Kazuhisa NARUSE : Study of TiO_2 Semiconductor. (V).
36. Kiyoshi ABE, Tetsuro TANAKA and Toshio INOGUCHI : Prepolarization of Barium Titanate Ceramics.
37. Kiyoshi ABE, Tetsuro TANAKA and Akira KAWABATA : Aging of the Properties of Barium Titanate Ceramics.
38. Kiyoshi ABE, Tetsuro TANAKA, Michiharu KANBARA and Junzo YAMAMOTO : Magnetic Properties of Ni-Ferrite.
39. Kiyoshi ABE, Tetsuro TANAKA, Michiharu KANBARA and Junzo YAMAMOTO : Ni-Ferrite as a Magnetostriction Materials.
40. Isao TAKAHASHI and O. NAKAHARA : On the h. f. s. Levels of Paramagnetic Mn-Salts in Zero Magnetic Field.
41. Isao TAKAHASHI, Tsuneo HASHI, Osamu RYUZAN and O. NAKAHARA : Transient Nuclear Induction Associated with Pure Quadrupole Coupling. (I).
42. Hajime NARUMI and Shigeru MATSUO : On the Interaction between Atomic Nuclei and Electrons. (II). The Schrödinger Field and the Molecular Symmetry.
43. Hajime NARUMI, Tadashi WaTANABE and Hisao KATSURAGI : On the Interaction between Atomic Nuclei and Electrons. (III). Nuclear Quadrupole Coupling and Wave Function of the Hydrogen Molecule.
44. Hajime NARUMI and A. SAIKA : On the Interaction between Atomic Nuclei and Electrons. (IV). Vibrational Dependence of Nuclear Quadrupole Coupling.
45. Wataru SAKAI and Hajime NARUMI : On a Model of Light Nuclei—Binding Energy of C^{12}.
46. Keiiti SISIDO, Hitosi NOZAKI, Hirosi TAKAHASI and Reizi MEZAKI : Synthesis and Preparation of Di-*t*-butyl and Dibenzyl-Acetamidomalonate.
47. Keiiti SISIDO, Kenzi HIRATUKA and Hitosi NOZAKI : Synthesis of New Triarylacrylonitriles.
48. Keiiti SISIDO, Motoo MATO and Seizi INOUE : Friedel-Crafts Cyclialkylation of Diphenylmethane with 1,4-Dichlorobutane.
49. Keiiti SISIDO, Motoo MATO and Itiro TAKAHASI : Studies on Heat Stabilizer for Polyvinyl Chloride Resins.
50. Sango KUNICHIKA and Shinzaburo OKA : Behavior of Glycols in Vapor Phase Catalytic Reaction.
51. Risaburo NAKAI, Michiyasu SUGII and Hajime TOMONO : The Use of Radioactive Elements. (I). The Synthesis of β-Diethylaminoethyl Xanthene-9-Carboxylate (Carboxyl-C^{14}-) Methobromide.

52. Risaburo NAKAI, Hajime TOMONO and Michiyasu SUGII : The Use of Radioactive Elements. (II). The Synthesis of β-Resornic Acid (Cardoxyl-C^{14}-).
53. Hajime FUJIMURA, Michiyasu SUGII, Masaaki ISHIKAWA, Keijiro SUGA and Kazuo ASAI : Studies on Pharmacological Action of Tetralin Derivatives. (II).
54. Hajime FUJIMURA and Kiyohisa KAWAI : Pharmacological Studies on Sulfhydrul Compounds.
55. Tatsuo KARIYONE and Tokunosuke SAWADA : Studies on Flavonoids in Leaves of *Coniferae*.
56. Yoshiyuki INOUE and Shozaburo KITAOKA : N-Glycylglucosamine.
57. Hideo KATAGIRI and Yoshio ICHIKAWA : Studies on Propionibacterium. (VIII).
58. Mamoru KURACHI : Studies on the Mechanism of Pyocyanine-Formation. (I). On the Mutation of the Bacteria in View of Pyocyanine-Production.
59. Hideo KATAGIRI, Chuji TATSUMI and Shohei NAKAGAWA : Studies on the Production of Lipids and Caroten by *Rhodotorula mucilaginosa*. (V). Effects of Inhibitors on the Formation of Caroten.
60. Hisateru MITSUDA, Katsuharu YASUMATSU and Atsushi NAKAZAWA : Crystallization of Animal Catalase and its Properties.
61. Hisateru MITSUDA, Morikazu KAZIMA and Atsuhi NAKAZAWA : Studies on Yeast Catalase.
62. Hisateru MITSUDA, Katsuharu YASUMATSU and Atsushi NAKAZAWA : Crystallization of Plant Catalase and its Properties.
63. Hisateru MITSUDA and Katsuharu YASUMATSU : Studies on Optimum Temperature of Animal and Plant Catalase.
64. Shigeki MORI : On the Peptisation of Denatured Soybean Protein.
65. Hideo KATAGIRI, Masayuki IKEMIYA, Harugoro YOMO and Hideo AN-YOJI : Studies on Malt-Amylase. (VI). The Effect of Synthetic Detergents on Malt Amylases.
66. Kyugo SASAGAWA and Mikio KATO : Biochemical Analysis about Causality of Mutations Inductivity by Means of Supersonic Wave.
67. Nobuji SASAKI, Ryuzo UEDA and Akira ARAI : The Electron Microscopic and Micro-Diffraction Observation in situ of the Changes in Solids by the Electron Bombardment.
68. Nobuji SASAKI and Ryuzo UEDA : The Formation of Mo Particles from a MoO_3 Single by Hydrogen Reduction.
69. Keinosuke KOBAYASHI : Some Problems on High Magnification Electron Microscopy. (I). The Effects of Illuminating Aperture.
70. Eiji SUITO and Natsu UEDA : Study of the Lameller Single Microcrystals of Lead Iodide by a Three-stage Electron Microscope.
71. Eiji SUITO and Natsu UEDA : Study of Some Clay Minerals by a Three-stage Electron Microscope.
72. Eiji SUITO and Kazuyoshi TAKIYAMA : Electron Microdiffraction of Vanadium Pentoxide Sol.
73. Eiji SUITO and Masafumi ARAKAWA : Observation on the Dispersion State of Various Fillers in the Vulcanized Rubber by Electron Microscope.
74. Kenzo TANAKA and Hatsujiro HASHIMOTO : Double Refraction Effect and Subsidiary Maxima in Electron Diffraction Pattern of Cupric Sulphide Crystal.
75. Hideo TAKAKI, Masashige KOYAMA and Hidekiyo FUJIHIRA : Imperfections in Tin Single Crystals. (III).
76. Hideo TAKAKI, Masashige KOYAMA and Hidekiyo FUJIHIRA : Imperfections in Tin Single Crystals. (IV).
77. Shiro MORITA, Ryohei OZAKI, Yutaka KAWANO and Ken-ichi SHIMOMURA : Fundamental Studies on Spheroidal Graphite Cast Iron. (VII).
78. Shiro MORITA and Ryohei OZAKI : Fundamental Studies on Spheroidal Graphite Cast Iron. (VIII). Influences of V on the Formation of Spheroidal Graphite in Cast Iron.
79. Shiro MORITA, Ryohei OZAKI, Naoya INOYAMA and Susumu OTA : Fundamental Studies on Spheroidal Graphite Cast Iron. (IX). Influences of As on the Formation of

Spheroidal Graphite in Cast Iron.

80. Isao KUSHIMA, Tsuyoshi AMANUMA and Fujio FUKUSHIMA: Fundamental Studies on Copper Converter Slag. (I-II). On the FeO-Fe_3O_4-SiC_2 System.
81. Kiyokado NISHIHARA, Yoshio KONDO and Hidemi SAKO: On the Treatment of Copper and Cobalt Bearing Pyrite.
82. Hiroshi SAWAMURA and Masatoshi TSUDA: Investigation on Cast Iron Having Fine Graphites Produced by Melting Cast Iron Covered with Slag Containing TiO_3. (VIII). Influence of Titanium upon the Casting Structure of Gray Cast Iron.
83. Hiroshi SAWAMURA, Masatoshi TSUDA and Akitsu TOMITA: Investigation on ast Iron Having Fine Graphites Produced by Melting Cast Iron Covered with Slag Containing TiO_2. (IX). On the Growth of S-H Cast Iron.
84. Hiroshi SAWAMURA, Masatoshi TSUDA and Sanzo NAKAGAWA: Investigation on Cast Iron Having Fine Graphites Produced by Melting Cast Iron Covered with Slag Containing TiO_2 (X). On the Heat-resisting of S-H Cast Iron.
85. Hiroshi SAWAMURA, Masatoshi TSUDA and Tatsuya WADA: Investigation on Cast Iron Having Fine Graphites Produced by Melting Cast Iron Covered with Slag Containing TiO_2. (XI). Studies on the Determination by the Isolating Method of Titanium Contained in S-H Cast Iron.