

Technical Publications
by JAERI Staff

from January 1973
to December 1973

March 1974

JAERI Reports and the Availability

Technical reports etc. are issued irregularly by JAERI. As to those in the past, these are collectively given in yearly "A list of the JAERI Reports". Then, those currently issued are presented in monthly "JAERI Reports Abstracts" (current JAERI technical reports) with the summaries etc. of individual reports.

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Technical Publications by JAERI Staff from January 1973 to December 1973

[Summary] Technical Publications by JAERI Staff from January 1973 to December 1973

Approximately 340 journal articles, papers at meetings, reports and books are given, which have been published by personnel of JAERI from January 1973 to December 1973. The contents for each entry include the title, language in which it is written, author(s), and journal name or origin. They are presented in INIS subject categories. The indexes are both by authors and report number. A list of the patents, originating at JAERI, including both Japanese and other patents, is also given.

March 1974

Division of Technical Information
Japan Atomic Energy Research Institute

〔要旨〕 日本原子力研究所研究成果発表リスト(1973年1月~1973年12月)

1973年1月から1973年12月までの間に、日本原子力研究所の所員によって発表された研究成果のうち、雑誌論文・会議の報文・レポート・単行本約340件について、その標題・筆者・所在を示した。これらをINIS(International Nuclear Information System)の主題分類を用いて分類し、著者索引とレポート番号索引をつけた。また、研究所で発生した国内・国外の特許一覧表を付した。

1974年3月

日本原子力研究所
技術情報部

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Subject Categories

A00	<u>PHYSICAL SCIENCES</u>	E00	<u>ENGINEERING AND TECHNOLOGY</u>
A10	GENERAL PHYSICS	E10	ENGINEERING
A11	Mathematical and General Theoretical Physics	E11	Thermodynamics and Fluid Flow
A12	Atomic and Molecular Physics	E12	Cryogenics
A13	Solid-State and Fluid Physics	E13	Structures and Equipment
A14	Plasma Physics and Thermonuclear Reactions	E14	Nuclear Explosions
A15	Astrophysics and Cosmology, Cosmic Radiation	E15	Facilities for Handling of Radioactive Materials
A16	Direct Energy Conversion	E16	Accelerators (whether for Particle Research or not)
A17	Low-Temperature Physics	E17	Materials Testing
A20	HIGH ENERGY PHYSICS	E20	NUCLEAR REACTORS (GENERAL)
A21	Elementary Particles (Theory)	E21	Reactor Theory and Calculation
A22	Elementary Particles (Experimental)	E22	Reactor Components and Accessories
A30	NEUTRON AND NUCLEAR PHYSICS	E23	Reactor Fuels
A31	Neutron Physics	E24	Reactor Control Systems
A32	Radiation Physics	E30	REACTOR TYPES
A33	Nuclear Theory	E31	Power Reactors, Non-Breeding, Light-Water Moderated, Boiling Water Cooled (BWR etc. types)
A34	Nuclear Properties and Reactions	E32	Power Reactors, Non-Breeding, Light-Water Moderated, Non-Boiling Water Cooled (PWR etc. types)
B00	<u>CHEMISTRY, MATERIALS AND EARTH SCIENCES</u>	E33	Power Reactors, Non-Breeding, Graphite-Moderated (GCR, AGR, HTGR etc. types)
B10	CHEMISTRY	E34	Power Reactors, Non-Breeding, Otherwise Moderated or Unmoderated
B11	Chemical and Isotopic Analysis	E35	Power Reactors, Breeding
B12	Inorganic, Organic and Physical Chemistry	E36	Research and Test Reactors, including Experimental Reactors (Zero Power Reactors and Sub-critical Assemblies) and Training Reactors
B13	Radiochemistry and Nuclear Chemistry	E37	Production Reactors (Producing Fissionable Materials), Irradiation Reactors such as Chemonuclear Reactors, Isotope Production Reactors, Tritium Production Reactors, Materials Testing Reactors, Material Processing Reactors
B14	Radiation Chemistry	E38	Mobile, Propulsion, Transportable and Package Reactors
B15	Corrosion	E40	INSTRUMENTATION
B16	Fuel Processing and Reprocessing	E41	Particle and Radiation Detection and Measuring Instruments and Methods
B20	MATERIALS	E42	Other Nuclear Instrumentation and Methods of Measurement
B21	Metals and Alloys (Production and Fabrication)	E43	Radiation Effects on Instruments, Components or Electronic Devices
B22	Metals and Alloys (Physical Properties and Structure)	E50	WASTE MANAGEMENT
B23	Ceramics and Cermets	E51	Waste Treatment
B24	Other Materials	E52	Waste Disposal
B25	Radiation Effects on Physical Properties of Materials	F00	<u>OTHER ASPECTS OF NUCLEAR ENERGY</u>
B30	EARTH SCIENCES	F10	ECONOMICS
B31	Land	F11	Nuclear Power Economics
B32	Water	F12	Reactor Fuel Economics
B33	Atmosphere	F13	Economics of Isotope and Radiation Applications
C00	<u>LIFE SCIENCES</u>	F20	NUCLEAR LAW
C10	ALL EFFECTS AND VARIOUS ASPECTS OF EXTERNAL RADIATION IN BIOLOGY	F21	Radioactive Materials
C11	Effects of External Radiation on Biochemicals and Cell and Tissue Cultures	F22	Nuclear Installations
C12	Effects of External Radiation on Microorganisms	F23	Radiation Health
C13	Effects of External Radiation on Plants	F24	Transport and Storage of Radioactive Materials
C14	Effects of External Radiation on Animals	F25	Liability for Nuclear Damage
C15	Effects of External Radiation on Man	F26	Nuclear Ships and other Nuclear Means of Conveyance
C20	RADIONUCLIDE EFFECTS AND KINETICS	F27	Organization and Administration of Nuclear Activities
C21	Toxicology, Tissue Distribution, Metabolism and Removal of Radionuclides	F28	Nuclear Disarmament and Safeguards
C22	Radionuclide Ecology	F30	NUCLEAR DOCUMENTATION
C30	TRACER STUDIES IN LIFE SCIENCES	F31	Data Handling
C31	Novel Tracer Techniques	F32	Literature Handling
C40	APPLIED LIFE SCIENCES	F40	SAFEGUARDS AND INSPECTION
C41	Plant Cultivation and Breeding	F41	Technical Aspects
C42	Pest and Disease Control	F42	Non-Technical Aspects
C43	Food Protection and Preservation	F50	MATHEMATICAL METHODS AND COMPUTER CODES
C44	Animal Husbandry	F51	Nuclear Computation and Simulation
C45	Other Applications of Radiations and Radioisotopes in the Life Sciences	F60	MISCELLANEOUS
C50	HEALTH, SAFETY AND ENVIRONMENT	F61	General Relevant Documents
C51	Radiation Hazards	F62	Progress Reports
C52	Safety Evaluations and Environmental Aspects of Nuclear Installations		
C53	Radiation Protection Standards		
C54	Radiation Protection Procedures		
D00	<u>ISOTOPES, ISOTOPE AND RADIATION APPLICATIONS</u>		
D10	ISOTOPES AND RADIATION SOURCES		
D11	Production of Enriched Uranium		
D12	Production of Heavy Water		
D13	Other Isotope Production and Enrichment		
D14	Radiation Sources		
D15	Radiation Source Metrology		
D20	ISOTOPE AND RADIATION APPLICATIONS		
D21	Power Production		
D22	Industrial Applications, Radiometric		
D23	Industrial Applications, Radiation Processing		
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GENERAL PHYSICS

- 73001 Effect of pressure on the order-disorder transition temperature of vacancies in NiVTi_2S_4 .
 - Anzai, Shuichiro*; Ozawa, Kunio.
 - Phys. Rev., B. v. 7(7) p. 3083-3088. (1973).
- 73002 Property of beryllium plasma produced by laser irradiation in a stellarator.
 - Ariga, Seiichi*; Matoba, Tohru; Miyamoto, Kenro*.
 - Jap. J. Appl. Phys. v. 12(3) p. 484-485. (1973).
- 73003 Plasma confinement in toroidal ringless quadrupole.
 - Azumi, Masafumi; Mohri, Akihiro*.
 - Phys. Lett., A. v. 42(1) p. 81-82. (1972).
- 73004 A generalized Hartree approximation and integral equations for correlations in quantum fluids.
 - Chihara, Junzo.
 - JAERI-M-5349. Jul 1973. 72 p.
- 73005 Integral equations for fluids with long-range and short-range potentials. Application to a charged particle system.
 - Chihara, Junzo.
 - Progr. Theor. Phys. (Kyoto). v. 50(2) p. 409-423. (1973).
- 73006 New types of integral equations for obtaining the radial distribution function of fluids.
 - Chihara, Junzo.
 - Progr. Theor. Phys. (Kyoto). v. 49(2) p. 693-694. (1973).
- 73007 Static and dynamic structure factors of liquid metals. The properties of liquid metals.
 - Chihara, Junzo.
 - 2. international conference on the properties of liquid metals. Tokyo, Japan. 3 Sep 1972.
 - 1973. p. 137-141.
- 73008 ESR spectra of radical pairs in irradiated oriented polyethylene. The $\Delta m_{\text{sub}(s)}=1$ transition.
 - Fujimura, Takashi; Tamura, Naoyuki.
 - Rep. Prog. Polym. Phys. Jap. v. 15 p. 511-512. (1972).
- 73009 Ionization rates in tokamak plasmas. (In Japanese).
 - Fujisawa, Noboru; Funahashi, Akimasa; Kasai, Satoshi; Sugawara, Tohru*.
 - JAERI-M-5431. Oct 1973. 16 p.
- 73010 Leak test in JFT-2.
 - Fujisawa, Noboru; Matoba, Tohru; Sugawara, Tohru*; Kasai, Satoshi; Toi, Kazuo; Kunieda, Shunsuke; Itoh, Satoshi.
 - JAERI-M-5226. Apr 1973. 17 p.
- 73011 Vacuum conditions in JFT-2.
 - Fujisawa, Noboru; Sugawara, Tohru*; Toi, Kazuo; Matoba, Tohru; Kasai, Satoshi; Itoh, Satoshi.
 - JAERI-M-5369. Aug 1973. 16 p.
- 73012 'Improper' ferroelectric properties of NaNbO_3 and $\text{AgNa(NO}_2)_2$.
 - Gesi, Kazuo.
 - Phys. Status Solidi. v. 15(2) p. 653-658. (1973).
- 73013 Dielectric relaxation in ferroelectric $\text{AgNa(NO}_2)_2$.
 - Gesi, Kazuo.

- Ferroelectrics. v. 4(4) p. 245-252. (1972).
- 73014 On polydispersive nature of dielectric relaxation in some ferroelectrics.
- Gesi, Kazuo.
- J. Phys. Soc. Jap. v. 34(5) p. 1271-1275. (1973).
- 73015 Dielectric study of the pressure effect on the cubic-tetragonal phase transition in $\text{K}\text{H}\text{n}\text{F}_3$.
- Gesi, Kazuo; Ozawa, Kunio.
- J. Phys. Soc. Jap. v. 34(6) p. 1698. (1973).
- 73016 Effect of hydrostatic pressure on the ferroelectric phase transition in diglycine nitrate.
- Gesi, Kazuo; Ozawa, Kunio.
- Jap. J. Appl. Phys. v. 12(6) p. 951-952. (1973).
- 73017 Effect of hydrostatic pressure on the ferroelectric phase transition in glycine silver nitrate $\text{NH}_2\text{CH}_2\text{COOAgNO}_3$.
- Gesi, Kazuo; Ozawa, Kunio.
- Jap. J. Appl. Phys. v. 12(7) p. 1106-1107. (1973).
- 73018 Effect of hydrostatic pressure on the ferroelectric phase transition in $\text{Ca}_2\text{Sr}(\text{CH}_3\text{CH}_2\text{COO})_6$.
- Gesi, Kazuo; Ozawa, Kunio.
- Jap. J. Appl. Phys. v. 12(8) p. 1287-1288. (1973).
- 73019 Effect of hydrostatic pressure on the antiferroelectric phase transition point of $\text{Cu}(\text{HCOO})_2 \cdot 4\text{H}_2\text{O}$.
- Gesi, Kazuo; Ozawa, Kunio.
- J. Phys. Soc. Jap. v. 35(3) p. 943. (1973).
- 73020 Effect of hydrostatic pressure on the ferroelectric curie temperature of rubidium bisulfate RbHSO_4 .
- Gesi, Kazuo; Ozawa, Kunio.
- J. Phys. Soc. Jap. v. 35(4) p. 1268. (1973).
- 73021 Hydrostatic-pressure effects on the dielectric properties of ferroelectric $\text{AgNa}(\text{NO}_2)_2$.
- Gesi, Kazuo; Ozawa, Kunio.
- J. Phys. Soc. Jap. v. 35(1) p. 199-203. (1973).
- 73022 Thermal motion of hydrogens adsorbed on the surface of microcrystallites of nickel by neutron spectroscopy. (In Japanese).
- Hamauchi, Yoshikazu; Sakamoto, Masanobu; Motohashi, Haruhiko; Asada, Hiromu*; Kodera, Takuro*; Toya, Tomiyuki*.
- JAERI-M-5266. May 1973. 22 p.
- 73023 Nuclear characteristics of blankets of fusion reactors. (In Japanese).
- Hiraoka, Toru.
- JAERI-M-5147. Feb 1973. 25 p.
- 73024 Lorentz factor in single-crystal neutron diffraction.
- Iizumi, Masashi.
- Jap. J. Appl. Phys. v. 12(2) p. 167-172. (1973).
- 73025 A numerical method for extraction of multiple roots of algebraic equation.
- Ishiguro, Misako.
- Information Processing in Japan. v. 12 p. 46-50. (1972).
- 73026 First report on the JAERI tokamak experiments.
- Itoh, Satoshi; Fujisawa, Noboru; Funahashi, Akimasa; Kunieda, Shunsuke; Takeda, Tatsuoki; Matoba, Tohru; Kasai, Satoshi; Sugawara, Tohru*; Toi, Kazuo; Suzuki, Norio.
- JAERI-M-5385. Sep 1973. 18 p.
- 73027 Early spectroscopic measurements in JFT-2 plasma. (In Japanese).
- Kasai, Satoshi; Funahashi, Akimasa; Inoue, Kenji.

- JAERI-M—5400. Sep 1973. 25 p.
- 73028 Measurement of the plasma current distribution in a Tokamak device by alpha-particles injected transverse to the toroidal magnetic field. Numerical calculations of the particle orbits and experimental arrangement.
 - Kawasaki, Sunao*; Inoue, Kenji; Takeda, Tatsuoki.
 - JAERI-M—5146. Feb 1973. 31 p.
- 73029 Growth of $V_{sub}(k)$ -centers by β -rays from tritons.
 - Kazumata, Yukio.
 - J. Phys. Soc. Jap. v. 35(4) p. 1106-1107. (1973).
- 73030 Calibration of the neutral particle energy analyzer at the energies from 0.3 to 4.0 keV for measurement of ion temperature of plasmas. (In Japanese).
 - Kitamura, Akira*; Takahashi, Koki; Yano, Syukuro.
 - JAERI-M—5275. May 1973. 26 p.
- 73031 Effects in the proton bombardment of NaF crystals, 2. Depth profile of damage in microhardness.
 - Kubo, Kazuko.
 - J. Phys. Soc. Jap. v. 35(1) p. 125-129. (1973).
- 73032 Defect formation by N^{++} ion bombardment in LiF and NaF.
 - Kubo, Kazuko; Kazumata, Yukio; Tomimitsu, Hiroshi.
 - J. Phys. Soc. Jap. v. 34(6) p. 1536-1540. (1973).
- 73033 Electromagnetic diagnostic instruments for JFT-2. (In Japanese).
 - Maeno, Masaki; Matoba, Tohru; Fujisawa, Noboru; Itoh, Satoshi.
 - JAERI-M—5204. Mar 1973. 52 p.
- 73034 Magnetic field components of the pulsed vertical field in the JFT-2 device in resonance with the rotational transform of plasma.
 - Matsuda, Shinzaburo.
 - JAERI-M—5298. Jun 1973. 11 p.
- 73035 Measurement of the leakage magnetic field from the iron core in a tokamak device without shell.
 - Matsuda, Shinzaburo.
 - Jap. J. Appl. Phys. v. 12(6) p. 903-907. (1973).
- 73036 General expression of the functional collection efficiency for a cascade impactor.
 - Matsui, Hiroshi; Ohata, Tsutomu.
 - J. Nucl. Sci. Technol. (Tokyo). v. 9(10) p. 620-621. (1972).
- 73037 Observation of collisionless drift waves in a toroidal hexapole.
 - Nagashima, Takashi; Tamura, Sanae; Yamato, Harumi; Arizono, Shigeki; Ohtsuka, Hideo; Shiina, Tomio; Yoshikawa, Masaji; Mori, Sigeru.
 - Phys. Rev. Lett. v. 31(2) p. 82-86. (1973).
- 73038 Experimental observation of collisionless drift waves in the JAERI toroidal hexapole (JFT-1).
 - Nagashima, Takashi; Yamato, Harumi*; Ohtsuka, Hideo; Shiina, Tomio; Tamura, Sanae; Arizono, Shigeki.
 - JAERI-M—5263. May 1973. 24 p.
- 73039 The standardization of a circular disc source of β^+ -emitters by the β^+ -annihilation γ - γ coincidence method.
 - Nakajima, Tadashi.
 - Nucl. Instrum. Methods. v. 109(1) p. 125-135. (1973).
- 73040 Hardening of KBr by heavy gamma irradiation at LNT.
 - Naramoto, Hiroshi; Ozawa, Kunio; Okada, Toichi*; Suita, Tokuo*.
 - Phys. Lett., A. v. 43(2) p. 95-96. (1973).
- 73041 Lifetime spectra of positrons in V_2O_5 .
 - Noguchi, Masayasu; Kimizuka, Noboru*; Chiba, Toshinobu*; Tsuda, Nobuo*.

- J. Phys. Soc. Jap. v. 34(3) p. 661-665. (1973).
- 73042 High temperature microscope observation of the grain boundary migration in silver under compression at 500 deg C.
 - Ogawa, Yutaka.
 - Trans. Jap. Inst. Metals. v. 14(1) p. 22-30. (1973).
- 73043 Dynamic limiter of JFT-2. (In Japanese).
 - Ohga, Tokumichi; Kunieda, Shunsuke; Ohta, Mitsuru; Yamamoto, Masahiro; Hamano, Noboru.
 - Kakuyugo Kenkyu. v. 30(suppl.1) p. 32-40. (1973).
- 73044 Self diffusion of fluorine in molten Li_2BeF_4 . (In Japanese).
 - Ohmichi, Toshihiko; Ono, Hideo; Kudo, Hiroshi; Furukawa, Kazuo.
 - Yoyuen. v. 16(2) p. 231-242. (1973).
- 73045 Analysis of magnetic fields in inhomogeneous materials. Theoretical and applied mechanics.
 - Ohta, Mitsuru; Itoh, Satoshi; Fujisawa, Noboru.
 - 21. Japan national congress for applied mechanics, 1971. Tokyo, Japan. 26 Oct 1971.
 - 1973. v. 21 p. 267-277.
- 73046 Design and test of the driving mechanism for a dynamic limiter. (In Japanese).
 - Ohta, Mitsuru; Ohga, Tokumichi; Kunieda, Shunsuke; Yamamoto, Masahiro; Hamano, Noboru.
 - JAERI-M-5433. Oct 1973. 17 p.
- 73047 Thermal instability and control of inhomogeneous plasma in a D-T fusion reactor.
 - Ohta, Mitsuru; Yamato, Harumi*; Mori, Sigeru.
 - J. Nucl. Sci. Technol. (Tokyo). v. 10(6) p. 353-359. (1973).
- 73048 Thermal stability of nonuniform plasma in a D-T fusion reactor. (In Japanese).
 - Ohta, Mitsuru; Yamato, Harumi*; Mori, Sigeru.
 - Kakuyugo Kenkyu. v. 30(suppl.1) p. 73-77. (1973).
- 73049 Dislocation pinning in Mo and Cu after neutron irradiation at low temperature.
 - Okuda, Shigeo; Mizubayashi, Hiroshi.
 - Phys. Status Solidi. v. 16(2) p. 355-364. (1973).
- 73050 Measurements of longitudinal acoustic phonons in polytetrafluoroethylene.
 - Sakamoto, Masanobu; Iizumi, Masashi; Masaki, Norio; Motohashi, Haruhiko; Minakawa, Nobuaki; Doi, Kenji; Kuriyama, Isamu; Yoda, Osamu; Tamura, Naoyuki; Odajima, Akira*.
 - Rep. Prog. Polym. Phys. Jap. v. 15 p. 141-144. (1972).
- 73051 Analysis of electrical characteristics of the nonequilibrium MHD generator by the four-terminal network theory.
 - Shirakata, Hirofumi.
 - Jap. J. Appl. Phys. v. 11(12) p. 1837-1850. (1972).
- 73052 Analysis of the relaxation phenomena in nonequilibrium MHD generator by four-terminal network theory. (In Japanese).
 - Shirakata, Hirofumi.
 - JAERI-M-5207. Mar 1973. 40 p.
- 73053 Experiments on MHD generators with nonequilibrium ionization using potassium-seeded argon plasmas.
 - Shirakata, Hirofumi; Takahashi, Koki; Hiramoto, Tatsumi; Yano, Syukuro.
 - J. Nucl. Sci. Technol. (Tokyo). v. 10(1) p. 10-21. (1973).
- 73054 Report of the Tokai meeting on toroidal experiments. (In Japanese).
 - Study Comm. on Thermonuclear Fusion Research.
 - Meeting on toroidal experiments. Tokai, Ibaraki, Japan. 28 Nov 1972.

- JAERI-M-5135. Feb 1973. 127 p.
- 73055 Recovery of fast neutron irradiated niobium and vanadium at low temperature.
- Takamura, Saburo; Okuda, Shigeo.
- J. Phys. Soc. Jap. v. 35(3) p. 750-753. (1973).
- 73056 Numerical analysis of magnetohydrodynamic instabilities by the finite element method.
- Takeda, Tatuoki; Shimomura, Yasuo; Ohta, Mitsuru; Yoshikawa, Masaji.
- Phys. Fluids. v. 15(12) p. 2193-2201. (1972).
- 73057 Long wavelength helical plasma equilibrium with a free boundary.
- Tanaka, Masatoshi; Azumi, Masafumi; Tuda, Takasi.
- J. Phys. Soc. Jap. v. 34(6) p. 1645-1648. (1973).
- 73058 Singularities of the vacuum magnetic field around a noncircular plasma cylinder.
- Tanaka, Masatoshi; Ivata, Giiti*.
- Plasma Phys. v. 15(7) p. 712-713. (1973).
- 73059 Drift dissipation instability in tokamak plasmas. (In Japanese).
- Tanaka, Masatoshi; Tuda, Takasi.
- Kakuyugo Kenkyu. v. 29(suppl-7) p. 24-28. (1973).
- 73060 Equilibrium vacuum magnetic field of an axisymmetric torus with an elliptical plasma cross-section.
- Tanaka, Masatoshi; Tuda, Takasi; Azumi, Masafumi.
- J. Phys. Soc. Jap. v. 34(6) p. 1641-1644. (1973).
- 73061 Stabilizing effect of a resistive liner on kink instabilities.
- Tanaka, Masatoshi; Tuda, Takasi; Takeda, Tatsuoki.
- Nucl. Fusion. v. 13(1) p. 119-120. (1973).
- 73062 Numerical data processing of the electromagnetic signals obtained in tokamak experiments by means of the method of least squares.
- Toi, Kazuo; Takeda, Tatsuoki.
- JAERI-M-5437. Oct 1973. 36 p.
- 73063 M1 core polarizabilities of the 8^+ and 6^+ states in ^{210}Po .
- Tonzuka, Isao*; Sasaki, Kiyoshi*; Harada, Kichinosuke.
- International conference on nuclear moments and nuclear structure, 1972. Osaka, Japan. 4 Sep 1972.
- J. Phys. Soc. Jap., Suppl. v. 34 p. 475-478. (1973).
- 73064 Pfirsch-Schlueter diffusion in a multicomponent plasma. (In Japanese).
- Tuda, Takasi; Tanaka, Masatoshi.
- JAERI-M-5376. Aug 1973. 5 p.
- 73065 Thermal stability of a spatially nonuniform plasma in a D-T fusion reactor.
- Yamato, Harumi*; Ohta, Mitsuru; Mori, Sigeru.
- Nucl. Fusion. v. 12(5) p. 604-606. (1972).
- 73066 Measurement of the ion temperature for the discharge condition case 2 in JFT-2 (tokamak device). (In Japanese).
- Yano, Syukuro; Shirakata, Hirofumi; Takahashi, Koki; Kitamura, Akira*; Makino, Toshikiyo*.
- JAERI-M-5276. May 1973. 24 p.
- 73067 Crystallite size distribution and lattice distortions in polyethylenes from analyses of debye-scherrer line profiles.
- Yoda, Osamu; Doi, Kenji.
- Rep. Prog. Polym. Phys. Jap. v. 15 p. 157-160. (1972).
- 73068 Crystallite size distribution and lattice distortions in polyethylene from analyses of Debye-Scherrer line profiles.
- Yoda, Osamu; Doi, Kenji; Tamura, Naoyuki; Kuriyama, Isamu.
- J. Appl. Phys. v. 44(5) p. 2211-2217. (1973).

- 73069 Effect of field errors on the plasma confinement in the dc octopole.
- Yoshikawa, Masaji; Gilleland, J.R.*; Ohkawa, Tihiro*; Tamano, Teruo*;
Meade, D.M.*; Jernigan, T.C.*.
- J. Phys. Soc. Jap. v. 34(6) p. 1600-1610. (1973).

NEUTRON AND NUCLEAR PHYSICS

- 73070 Yield of ^{52}Fe for the reactions of ^3He and α on chromium.
- Akiha, Fumimasa*; Aburai, Tamaru; Nozaki, Tadashi*; Murakami, Yukio*.
- Radiochim. Acta. v. 18(2) p. 108-111. (1972).
- 73071 Effect of reentrant hole perturbation on angular thermal neutron spectra in time of flight measurement.
- Akino, Fujiyoshi; Kaneko, Yoshihiko.
- J. Nucl. Sci. Technol. (Tokyo). v. 10(1) p. 45-53. (1973).
- 73072 Calculation of the self-absorption of gamma rays in a disc shaped source.
- Gotoh, Hiroshi.
- Nucl. Instrum. Methods. v. 107(1) p. 199. (1973).
- 73073 Conditions of fast multiplying systems for existence of the time eigenvalue of the fundamental mode.
- Hiraoka, Toru; Ukai, Seiji*.
- J. Nucl. Sci. Technol. (Tokyo). v. 10(3) p. 186-191. (1973).
- 73074 Cross sections of the fission product nuclei. (In Japanese).
- Igarasi, Sin-iti; Kawai, Masayoshi*; Nakagawa, Tsuneo; Suehiro, Tadasuke*; Murata, Toru*.
- 3. seminar on neutron cross sections. Tokai, Ibaraki, Japan. 9 Nov 1972.
- JAERI--1228. Jul 1973. p. 41-63.
- 73075 Neutron scattering study of the anharmonic lattice vibrations in calcium fluoride.
- Iizumi, Masashi.
- J. Phys. Soc. Jap. v. 35(1) p. 204-212. (1973).
- 73076 Internal conversion electrons in ^{115}In from the decay of $\text{sup}(115\text{m})\text{Cd}$.
- Ishii, Mitsuhiro.
- J. Phys. Soc. Jap. v. 32(5) p. 1450. (1972).
- 73077 Measurements of neutron reaction cross sections using a liquid scintillation spectrometer.
- Ishikawa, Hiroaki.
- Nucl. Instrum. Methods. v. 109(3) p. 493-501. (1973).
- 73078 Bibliography for thermal neutron scattering (Fourth edition, 1973).
- Japanese Nuclear Data Comm.
- JAERI-M--5395. Sep 1973. 208 p.
- Continue from JAERI--4043 (3rd. ed.).
- 73079 Proceedings of the 3rd seminar on neutron cross sections. (In Japanese).
- Japanese Nuclear Data Comm.
- 3. seminar on neutron cross sections. Tokai, Ibaraki, Japan. 9 Nov 1972.
- JAERI--1228. Jul 1973. 199 p.
- 73080 Effect of delayed-neutron mode on the determination of the prompt-neutron decay constant in pulsed-neutron measurements.
- Kaneko, Yoshihiko; Ohkubo, Shuzi; Akino, Fujiyoshi.
- Nucl. Sci. Eng. v. 50(2) p. 173-176. (1973).
- 73081 Study of energy levels of ^{120}Sn through the $(n, n'\gamma)$ reaction.
- Kikuchi, Shiroh; Sugiyama, Yasuharu.

- 5. meeting of the international nuclear data committee. Vienna. 17 Jul 1972.
 - INDC(SEC)--31-U. Jan 1973. p. 69-75.
- 73082 Interpolation formula of thermal neutron scattering law in temperature interval.
- Nakahara, Yasuaki.
 - J. Nucl. Sci. Technol. (Tokyo). v. 9(12) p. 743-748. (1972).
- 73083 Review on the fission cross section of ^{235}U . (In Japanese).
- Nishimura, Kazuaki.
 - 3. seminar on neutron cross sections. Tokai, Ibaraki, Japan. 9 Nov 1972.
 - JAERI--1228. Jul 1973. p. 64-78.
- 73084 Proceeding of Symposium on nuclear reaction and nuclear structure. (In Japanese).
- Nuclear Physics Lab.
 - Symposium on the nuclear reaction and the nuclear structure. Tokai, Ibaraki, Japan. 13 Dec 1972.
 - JAERI--1231. Nov 1973. 146 p.
- 73085 A new reactivity meter based on nonlinear filtering technique.
- Shinohara, Yoshikuni; Oguma, Ritsuo.
 - 1973 annual meeting. Chicago, Ill., USA. 10 Jun 1973.
 - Trans. Am. Nucl. Soc. v. 16 p. 235-236. (1973).
- 73086 Search for fissioning isomers of ^{237}U and ^{236}Np in the region of half-lives over 60 μs .
- Takekoshi, Eiko; Tsukihashi, Yoshihiro.
 - J. Phys. Soc. Jap. v. 35(3) p. 936. (1973).
- 73087 Analysis of fast neutron scattering using the coupled-channels theory. (In Japanese).
- Tanaka, Shigeya.
 - 3. seminar on neutron cross sections. Tokai, Ibaraki, Japan. 9 Nov 1972.
 - JAERI--1228. Jul 1973. p. 106-116.
- 73088 Analysis of fast neutron scattering using the coupled-channels theory.
- Tanaka, Shigeya.
 - 5. meeting of the international data committee. Vienna. 17 Jul 1972.
 - INDC(SEC)--31-U. Jan 1973. p. 51-67.
- 73089 Fast neutron scattering from ^{120}Sn and Gd. Nuclear structure study with neutrons.
- Tanaka, Shigeya; Tomita, Yoshiaki; Yamanouti, Yoshimaro; Ideno, Kazumi.
 - Conf. on nuclear structure study with neutrons. Budapest, Hungary. 31 Jul 1972.
 - 1972. p. 148-149.
- 73090 Intermediate structure in the neutron scattering cross sections of iron.
- Tomita, Yoshiaki.
 - Nucl. Phys., A. v. 210(1) p. 51-59. (1973).
- 73091 Neutron scattering from ^{207}Pb .
- Tomita, Yoshiaki; Tanaka, Shigeya; Maruyama, Michio.
 - JAERI-M--5418. Oct 1973. 9 p.
- 73092 Elastic and inelastic scattering of 21.5MeV neutrons from ^{12}C . (In Japanese).
- Yamanouti, Yoshimaro.
 - 3. seminar on neutron cross sections. Tokai, Ibaraki, Japan. 9 Nov 1972.
 - JAERI--1228. Jul 1973. p. 131-138.
- 73093 A multi-angle time-of-flight spectrometer.
- Yamanouti, Yoshimaro; Tanaka, Shigeya.

- 5. meeting of the international data committee. Vienna. 17 Jul 1972.
- INDC(SEC)—31-U. Jan 1973. p. 3-15.

CHEMISTRY

- 73094 Ion exchange behavior of some inorganic ions in system of ion exchange resins of porous type.
 - Akatsu, Eiko; Aratono, Yasuyuki; Bahk, C.Y.*.
 - J. Nucl. Sci. Technol. (Tokyo). v. 10(8) p. 453-457. (1973).
- 73095 Separation of uranium-233 by double decomposition of ThO₂ with sulfuric acid.
 - Akatsu, Johkun.
 - J. Nucl. Sci. Technol. (Tokyo). v. 10(7) p. 448-450. (1973).
- 73096 Analysis of sodium. (In Japanese).
 - Comm. on Anal. Chem. of Nucl. Fuels and Reactor Mater.
 - JAERI--1225. Jan 1973. 106 p.
- 73097 Non-stoichiometry in uranium sesquinitride.
 - Fujino, Takeo; Tagawa, Hiroaki.
 - J. Phys. Chem. Solids. v. 34(10) p. 1611-1626. (1973).
- 73098 Diagram for zircaloy-2 corrosion in reactor fuel design. (In Japanese).
 - Fujita, Misao; Izumi, Fumio; Harayama, Yasuo; Morishima, Atuyoshi.
 - JAERI-M—5423. Oct 1973. 10 p.
- 73099 Release process of fission xenon produced by β -decay of precursor iodine in natural graphite at 1,000 deg C.
 - Fukuda, Takeshi; Omori, Shunzo; Yamagishi, Shigeru.
 - J. Nucl. Sci. Technol. (Tokyo). v. 10(4) p. 242-249. (1973).
- 73100 Spectro-isotopic analysis of lithium using the hollow cathode discharge technique. (In Japanese).
 - Fukusima, Hiroyuki.
 - Bunko Kenkyu. v. 21(6) p. 416-422. (1972).
- 73101 Study of physicochemical properties in alloys applying metallic-bond electronegativity. The properties of liquid metals.
 - Furukawa, Kazuo.
 - 2. international conference on the properties of liquid metals. Tokyo, Japan. 3 Sep 1972.
 - 1973. p. 461-465.
- 73102 Single crystal preparation and domain structure of AgNO₂.
 - Gesi, Kazuo.
 - Jap. J. Appl. Phys. v. 12(2) p. 196-198. (1973).
- 73103 Radiation-induced graft polymerization of acrylonitrile onto poly(vinyl chloride) film. (In Japanese).
 - Hashimoto, Shoji; Udagawa, Akira; Kageyama, Eiichi.
 - Nippon Kagaku Kaishi. v. 1973(6) p. 1188-1194. (1973).
- 73104 Extraction-photometric determination of molybdenum in zirconium-, nickel- and iron-base alloys using oxine. (In Japanese).
 - Hashitani, Hiroshi; Adachi, Takeo; Katsuyama, Kazuo.
 - Bunseki Kagaku. v. 22(10) p. 1368-1370. (1973).
- 73105 High-purity uranium metal standard sample (JAERI-U4) for determination of uranium. (In Japanese).
 - Hashitani, Hiroshi; Hoshino, Akira; Adachi, Takeo.
 - JAERI-M—5343. Aug 1973. 32 p.
- 73106 Release of carbon-14 from neutron-irradiated aluminum nitride in the dry procedure.
 - Hata, Kentaro; Shikata, Eiji; Amano, Hiroshi.
 - J. Nucl. Sci. Technol. (Tokyo). v. 10(2) p. 89-94. (1973).

- 73107 Radiation-induced polymerization of vinyl monomers at gas/water interface. (In Japanese).
 - Hatada, Motoyoshi; Nishii, Masanobu; Hirota, Kozo.
 - JAERI--5028. Jan 1973. p. 1-11.
- 73108 Free-cationic polymerization of styrene by radiation.
 - Hayashi, Kanae; Hayashi, Koichiro; Okamura, Seizo.
 - Polym. J. v. 4(4) p. 426-436. (1973).
- 73109 Copolymerization of styrene with isobutyl vinyl ether by radiation.
 - Hayashi, Kanae; Hayashi, Koichiro; Okamura, Seizo.
 - Polym. J. v. 4(5) p. 495-501. (1973).
- 73110 Electrical conductivity study on photo-induced ionic polymerization of α -methylstyrene.
 - Hayashi, Kanae; Irie, Masahiro*; Hayashi, Koichiro*.
 - Polym. J. v. 3(6) p. 762-763. (1972).
- 73111 A D.T.A. study on the oxidation of carbon and graphite. (In Japanese).
 - Honda, Toshio; Saito, Tamotsu; Horiguchi, Yoji.
 - Tanso. (no.72) p. 14-20. (1973).
- 73112 Determination of carbon by using barium sulfate as an oxidizing flux. (In Japanese).
 - Hoshino, Akira; Iso, Shuichi; Ito, Mitsuo.
 - Bunseki Kagaku. v. 22(9) p. 1215-1219. (1973).
- 73113 Amphoteric character of cadmium hydroxide and its solubility in alkaline solution.
 - Ichikawa, Fujio; Sato, Tadashi.
 - J. Inorg. Nucl. Chem. v. 35(7) p. 2592-2594. (1973).
- 73114 Radiation synthesis of hydrogen cyanide from nitrogen-ethylene system. Effect of temperature, gas density, and reactor wall.
 - Ikezoe, Yasumasa; Sato, Shoichi; Danno, Akibumi.
 - Bull. Chem. Soc. Jap. v. 46(4) p. 1154-1158. (1973).
- 73115 Adsorption of the cationic emulsion produced by radiation-induced emulsion polymerization onto paper pulp. (In Japanese).
 - Inada, Tadaihiro*; Doi, Yukio*; Hayashi, Kanae; Kamiyama, Hideo; Okamura, Seizo.
 - JAERI--5028. Jan 1973. p. 20-29.
- 73116 Uranium oxysulfide and thorium disulfide from organic extracts of thiocyanates in aqueous solution.
 - Ishimori, Tomitaro; Ueno, Kaoru; Akatsu, Eiko.
 - J. Nucl. Sci. Technol. (Tokyo). v. 10(2) p. 95-100. (1973).
- 73117 Preparation of uranium-233.
 - Ishimori, Tomitaro; Ueno, Kaoru; Kimura, Kan; Hoshi, Michio; Saeki, Masakatsu; Saito, Akira; Asano, Masaharu; Akatsu, Johkun; Leugger, Bruno*.
 - J. Nucl. Sci. Technol. (Tokyo). v. 9(12) p. 716-720. (1972).
- 73118 A method for separation of radiocesium by using H_2PtCl_6 . Application of the proposed method to the detection of a leaker fuel assembly in BWR plant. (In Japanese).
 - Ishiwatari, Nasumi.
 - JAERI-M--5440. Oct 1973. 13 p.
- 73119 Extraction spectrophotometric determination of chlorine in sodium metal with mercury(II)-diphenylcarbazone complex. (In Japanese).
 - Izawa, Kimie; Aoyagi, Hisao; Yoshida, Zenko; Takahashi, Masao.
 - Bunseki Kagaku. v. 22(8) p. 1046-1051. (1973).
- 73120 Radiation-induced polymerization of glass-forming systems, 3. Effect of melting point and glass transition temperature on the formation of the glassy phase.

- Kaetsu, Isao; Okubo, Hiroshi; Ito, Akihiko; Hayashi, Koichiro.
- J. Polym. Sci., Part A-1. v. 10(9) p. 2661-2675. (1972).
- 73121 Effect of γ -irradiation on mechanical properties of nylons. (In Japanese).
- Kaji, Kanako; Okada, Toshio; Sakurada, Ichiro.
- JAERI--5028. Jan 1973. p. 30-34.
- 73122 Radiation-induced graft copolymerization to polyester, 13. Grafting of methacrylic acid onto drawn polyethylene terephthalate fibers with immersion method. (In Japanese).
- Kaji, Kanako; Okada, Toshio; Sakurada, Ichiro.
- JAERI--5028. Jan 1973. p. 52-60.
- 73123 Effect of mixing on nonuniformly initiated polymerization by radiation.
- Kawakami, Waichiro; Machi, Sueo.
- A.I.Ch.E. J. v. 19(1) p. 94-101. (1973).
- 73124 Analytical chemical studies on electrode processes by column coulometry, 1. Basic studies on the column electrode.
- Kihara, Sorin.
- J. Electroanal. Chem. Interfacial Electrochem. v. 45(1) p. 31-44. (1973).
- 73125 Analytical chemical studies on electrode processes by column coulometry, 2. Studies on the electrode processes of uranium and plutonium in aqueous solutions.
- Kihara, Sorin.
- J. Electroanal. Chem. Interfacial Electrochem. v. 45(1) p. 45-58. (1973).
- 73126 Gamma-radiolysis of water using a specially designed gamma-irradiation loop.
- Koike, Mitsuru; Tachikawa, Enzo; Hashimoto, Hitoshi; Ohkubo, Takashi.
- J. Nucl. Sci. Technol. (Tokyo). v. 10(2) p. 111-117. (1973).
- 73127 Gamma-radiolysis of water and some aqueous solutions under N₂ gas bubbling.
- Koike, Mitsuru; Tachikawa, Enzo; Hashimoto, Hitoshi; Ohkubo, Takashi.
- J. Nucl. Sci. Technol. (Tokyo). v. 10(4) p. 234-241. (1973).
- 73128 Removal of volatile tellurium fluoride in low concentrations by activated alumina.
- Komaki, Yoshihide; Iwasaki, Matae; Tsujimura, Shigeo.
- J. Nucl. Sci. Technol. (Tokyo). v. 10(6) p. 385-387. (1973).
- 73129 Construction and performance of a mass spectrometer for radioactive materials. (In Japanese).
- Komori, Takuji; Tamura, Shuzo; Gunji, Katsubumi; Oda, Zenjiro*.
- Shitsuryo Bunseki. v. 21(1) p. 27-35. (1973).
- 73130 Effects of ⁶⁰Co- γ irradiation on electrode reactions of aluminum in water. (In Japanese).
- Lee, Ju-tung; Furukawa, Katsutoshi; Ohno, Shin-ichi.
- Nippon Kagaku Kaishi. v. 1973(1) p. 39-44. (1973).
- 73131 Radiation-induced crosslinking of poly(vinylidene fluoride).
- Makuuchi, Keizo; Seguchi, Tadao; Suwa, Takeshi; Abe, Toshihiko; Tamura, Naoyuki; Takehisa, Masaaki.
- Nippon Kagaku Kaishi. v. 1973(8) p. 1574-1581. (1973).
- 73132 Radiation-induced emulsion copolymerization of tetrafluoroethylene with propylene. Emulsion copolymerization by the shaking agitation method. (In Japanese).
- Matsuda, Osamu; Ito, Masayuki; Suzuki, Nobutake; Okamoto, Jiro; Danno, Akibumi; Tabata, Yoneho*.
- JAERI-M--5071. Dec 1972. 19 p.
- 73133 Kinetic study of ion exchange adsorptions of Co(II) and Ce(III) at

- extremely low concentrations on the chelating resin. (In Japanese).
 - Matsuzuru, Hideo; Wadachi, Yoshiki.
 - Nippon Kagaku Kaishi. v. 1973(4) p. 643-647. (1973).
- 73134 Removal of ^{60}Co and ^{65}Zn from a solution containing sodium salts by Dowex A-1.
 - Matsuzuru, Hideo; Wadachi, Yoshiki.
 - J. Nucl. Sci. Technol. (Tokyo). v. 10(9) p. 551-555. (1973).
- 73135 Gamma-radiation-induced cross-linking of polyethylene.
 - Mitsui, Hiroshi; Hosoi, Fumio; Kagiya, Tsutomu*.
 - Polym. J. v. 4(1) p. 79-86. (1973).
- 73136 Effect of Polymethyl acrylate on the rate of bulk polymerization of methyl acrylate. (In Japanese).
 - Mitsui, Hiroshi; Tsuneta, Kazuyoshi*; Kagiya, Tsutomu*.
 - Kobunshi Kagaku. v. 29(331) p. 806-810. (1972).
- 73137 ESR study of gamma-irradiated ammonia-silica gel system.
 - Nagai, Siro.
 - Bull. Chem. Soc. Jap. v. 46(4) p. 1144-1148. (1973).
- 73138 Particle-size distribution of polyethylene powder produced by radiation polymerization in a wet wall type pilot plant. (In Japanese).
 - Nakajima, Hayato; Takehisa, Masaaki; Machi, Sueo.
 - JAERI-M-5098. Jan 1973. 16 p.
- 73139 Differential thermal analysis of polytetraoxane obtained by radiation-induced polymerization in the solid state.
 - Nakase, Yoshiaki; Kuriyama, Isamu.
 - Polym. J. v. 4(5) p. 517-525. (1973).
- 73140 Sequential ion-exchange separation of heavy elements and selected fission products for burnup measurement.
 - Natsume, Haruo; Umezawa, Hirokazu; Okazaki, Shuji; Suzuki, Toshio; Sonobe, Tamotsu; Usuda, Shigekazu.
 - J. Nucl. Sci. Technol. (Tokyo). v. 9(12) p. 737-742. (1972).
- 73141 Formation of organic iodides upon heating nitric acid solutions containing carrier-free iodine-131.
 - Numakura, Kenshi*; Saeki, Masakatsu; Tachikawa, Enzo.
 - J. Nucl. Sci. Technol. (Tokyo). v. 10(6) p. 367-373. (1973).
- 73142 An additional formation of $\text{CH}_2^{80}\text{BrBr}$ via a kinetic-energy-independent process in the highly moderated sup(80m)Br- CH_4 systems.
 - Numakura, Kenshi; Saeki, Masakatsu; Tachikawa, Enzo.
 - Bull. Chem. Soc. Jap. v. 46(1) p. 1-4. (1973).
- 73143 Energetic reactions of ^{80}Br activated by (I. T.) process in C_3H_8 - C_2H_6 and C_3H_8 - CH_3Br systems.
 - Numakura, Kenshi; Tachikawa, Enzo.
 - Bull. Chem. Soc. Jap. v. 46(2) p. 346-351. (1973).
- 73144 Thermodynamical consideration for corrosion of metals in molten fluorides. The behavior of hastelloy-N in molten Li_2BeF_4 . (In Japanese).
 - Ohmichi, Toshihiko; Furukawa, Kazuo.
 - JAERI-M-5393. Sep 1973. 17 p.
- 73145 Phase diagrams and the data for liquid metals and inorganic molten salts. Alkalifluoroborates RBF_4 (R=Li, Na, K, Rb, Cs). (In Japanese).
 - Ohno, Hideo; Furukawa, Kazuo.
 - JAERI-M-5053. Nov 1972. 57 p.
- 73146 Calculation of the primary radiation chemical yields in helium on the basis of a classical collision theory.
 - Ohno, Shin-ichi.
 - Chem. Lett. (Tokyo). (no.8) p. 817-820. (1973).

- 73147 Modification of papers by radiation-induced polymerization of vinyl monomers with electron beams. (In Japanese).
 - Ohtsuki, Hideharu*; Okada, Toshio.
 - JAERI--5028. Jan 1973. p. 61-67.
- 73148 Charts for sample amounts corresponding to a self-shielding factor of 0.9 in thermal neutron activation analysis.
 - Okada, Minoru.
 - Anal. Chem. v. 45(8) p. 1578-1580. (1973).
- 73149 Radiation-induced graft copolymerization to polyester, 11. Grafting of acrylic acid onto polyethylene terephthalate fibers with two-step impregnation method. (In Japanese).
 - Okada, Toshio; Shimano, Yasunao*; Sakurada, Ichiro.
 - JAERI--5028. Jan 1973. p. 35-42.
- 73150 Chemorheology of tetrafluoroethylene-propylene elastomer. (In Japanese).
 - Okamoto, Jiro; Ito, Masayuki; Matsuda, Osamu; Suzuki, Nobutake.
 - JAERI-M--5422. Oct 1973. 15 p.
- 73151 Fundamental studies in Osaka Laboratory for Radiation Chemistry. Annual report: April 1, 1971-March 31, 1972. (In Japanese).
 - Osaka Lab. for Radiation Chemistry.
 - JAERI--5028. Jan 1973. 99 p.
- 73152 Estimation of the thermal yields in the reaction with methanes of ^{80}Br activated by (n, γ) process.
 - Saeki, Masakatsu; Tachikawa, Enzo.
 - Bull. Chem. Soc. Jap. v. 46(3) p. 839-844. (1973).
- 73153 Some problems in radiation grafting to cellulose fibers.
 - Sakurada, Ichiro; Okada, Toshio; Kaji, Kanako.
 - J. Polym. Sci., Part C. (no.37) p. 1-25. (1972).
- 73154 Behavior of some fission products in the fluorination process using BrF_3 .
 - Sakurai, Tsutomu.
 - J. Nucl. Sci. Technol. (Tokyo). v. 10(2) p. 130-131. (1973).
- 73155 Measurement of fission fragment deposition efficiency by ethylene dosimeter.
 - Sato, Shoichi; Moriyama, Noboru; Ikezoe, Yasumasa; Danno, Akibumi.
 - J. Nucl. Sci. Technol. (Tokyo). v. 10(9) p. 577-580. (1973).
- 73156 Electron spin resonance spectra of free radicals in irradiated oriented polyvinylidene fluoride.
 - Seguchi, Tadao; Makuuchi, Keizo; Suwa, Takeshi; Tamura, Naoyuki; Abe, Toshihiko; Takehisa, Masaaki.
 - Rep. Prog. Polym. Phys. Jap. v. 15 p. 513-514. (1972).
- 73157 Mechanism of decay of alkyl radicals in irradiated polyethylene on exposure to air as studied by electron spin resonance.
 - Seguchi, Tadao; Tamura, Naoyuki.
 - J. Phys. Chem. v. 77(1) p. 40-44. (1973).
- 73158 Dry-distillation of iodine-131 from several tellurium compounds.
 - Shikata, Eiji; Amano, Hiroshi.
 - J. Nucl. Sci. Technol. (Tokyo). v. 10(2) p. 80-88. (1973).
- 73159 Radiation-induced graft copolymerization to polyester, 12. Grafting of acrylic acid onto polyester fibers with one-step impregnation method. (In Japanese).
 - Shimano, Yasunao*; Okada, Toshio; Sakurada, Ichiro.
 - JAERI--5028. Jan 1973. p. 43-51.
- 73160 Far infrared absorption spectra of rubidium uranium complex fluorides.
 - Soqa, Takesi; Ohwada, Ken; Iwasaki, Matae.

- J. Inorg. Nucl. Chem. v. 35(6) p. 2069-2074. (1973).
- 73161 γ -irradiation effects on monomer-clay complex, 1. Free radical formed in methyl methacrylate and octadecyl methacrylate-montmorillonite complexes. (In Japanese).
- Sugimoto, Shun-ichi; Ohnishi, Shun-ichi; Nitta, Isamu.
- JAERI--5028. Jan 1973. p. 12-19.
- 73162 Ion-exchange resin from the radiation-polymerized polyethylene. (In Japanese).
- Suigo, Takanobu; Machi, Sueo; Takehisa, Masaaki.
- JAERI-M--5228. Apr 1973. 26 p.
- 73163 The relative importance of kinetic energy and positive charge in the reaction of (I.T.)-activated ^{80}Br in ethane with various moderators.
- Tachikawa, Enzo; Yanai, Kaoru.
- Radiochim. Acta. v. 17(3) p. 138-142. (1972).
- 73164 Radiolysis of DEHPA and DEHPA in kerosene or CCl_4 and its effect on the Sr^{2+} extraction. (In Japanese).
- Tachimori, Shoichi; Sato, Akira; Nakamura, Haruto; Amano, Hiroshi.
- JAERI-M--5333. Jul 1973. 15 p.
- 73165 Formation of uranium nitride by the reaction of uranium hydride with nitrogen and ammonia.
- Tagawa, Hiroaki.
- Bull. Chem. Soc. Jap. v. 46(4) p. 1158-1161. (1973).
- 73166 Determination of hydrogen in sodium by amalgamation method.
- Takahashi, Masao.
- J. Nucl. Sci. Technol. (Tokyo). v. 10(1) p. 54-60. (1973).
- 73167 Detection of ruptured fuel particles in the fuel compact by acid leach techniques. (In Japanese).
- Tobita, Tsutomu; Iwamoto, Kazumi.
- JAERI-M--5265. May 1973. 19 p.
- 73168 Spectrophotometric determination of boron, copper and tantalum in nickel-base alloys. (In Japanese).
- Teita, Yukio; Nagai, Hitoshi; Sekine, Keiichi; Onishi, Hiroshi.
- JAERI-M--5094. Jan 1973. 17 p.
- 73169 In-line gas analyzer for UF_6 and F_2 through differential thermal conductivity measurements.
- Tsujino, Takeshi; Sugikawa, Susumu; Miyajima, Kazutoshi.
- J. Nucl. Sci. Technol. (Tokyo). v. 10(2) p. 118-124. (1973).
- 73170 Measurement of the ratio of fission product gamma activities from ^{239}Pu and ^{235}U fissions.
- Tsuruta, Harumichi.
- J. Nucl. Sci. Technol. (Tokyo). v. 10(9) p. 560-565. (1973).
- 73171 Independent isomeric yield ratio of ^{148}Pm in the thermal-neutron induced fission of ^{233}U .
- Umezawa, Hirokazu.
- J. Inorg. Nucl. Chem. v. 35(2) p. 353-359. (1973).
- 73172 Bimodal molecular weight distribution of poly(vinyl acetate) produced in n-hexane by radiation.
- Wada, Takeshi; Machi, Sueo.
- J. Polym. Sci., Polym. Lett. Ed. v. 11(2) p. 115-120. (1973).
- 73173 Radiation-induced heterogeneous polymerization, 1. Kinetic study of bulk polymerization of acrylonitrile.
- Wada, Takeshi; Watanabe, Terutaka; Takehisa, Masaaki.
- Polym. J. v. 4(2) p. 136-142. (1973).
- 73174 Radiation-induced heterogeneous polymerization of ethylene in the presence of ethyl alcohol.

- Wada, Takeshi; Watanabe, Terutaka; Takehisa, Masaaki.
 - J. Polym. Sci., Polym. Chem. Ed. v. 10(10) p. 3039-3052. (1972).
- 73175 Studies on the explosive decomposition of ethylene, 2. The effect of ignition method on the threshold pressure of explosive decomposition of ethylene. (In Japanese).
- Watanabe, Hiromasa; Takehisa, Masaaki.
 - Anzen Kagaku. v. 12(3) p. 174-178. (1973).
- 73176 Separation of Pu-238 and Pu-242 from irradiated Am-241.
- Watanabe, Kenju; Sagawa, Chiaki; Ueno, Kaoru.
 - J. Nucl. Sci. Technol. (Tokyo). v. 10(1) p. 62-63. (1973).
- 73177 Molecular weight distribution of polyethylene produced by radiation polymerization in a heterogeneous system.
- Watanabe, Terutaka; Wada, Takeshi; Machi, Sueo; Takehisa, Masaaki.
 - J. Polym. Sci., Part B. v. 10(9) p. 741-745. (1972).
- 73178 Production of mercury-197 and -203, 3. Labeling of a large quantity of metallic mercury by heterogeneous isotope-exchange reaction. (In Japanese).
- Yamabayashi, Hisamichi; Onoma, Katsuyuki; Motoishi, Shoji; Yamamoto, Kosei; Ito, Taro.
 - JAERI-M-5320. Jul 1973. 31 p.
- 73179 Measurement of tritium in exhausted air using silicagel. (In Japanese).
- Yamamoto, Hozumu; Seiki, Yoshihiro; Mizugaki, Toshio.
 - Hoken Butsuri. v. 7(4) p. 225-227. (1972).
- 73180 Extraction-photometric determination of thorium with chlorophosphonazo-III.
- Yamamoto, Tadashi.
 - Anal. Chim. Acta. v. 63(1) p. 65-70. (1973).
- 73181 Extraction-photometric determination of uranium(IV) with chlorophosphonazo-III.
- Yamamoto, Tadashi.
 - Anal. Chim. Acta. v. 65(2) p. 329-334. (1973).
- 73182 Spectrophotometric study of the reaction between thorium and chlorophosphonazo III. (In Japanese).
- Yamamoto, Tadashi.
 - JAERI-M-5426. Oct 1973. 17 p.
- 73183 Activation analysis of zirconium, zircaloy and nickel-base alloy for tantalum using extraction chromatography.
- Yonezawa, Chushiro; Tamura, Nori; Onishi, Hiroshi.
 - Bunseki Kagaku. v. 22(4) p. 437-443. (1973).
- 73184 Determination of sodium in high-purity zinc and selenium by neutron activation. (In Japanese).
- Yoshida, Hiroyuki; Yonezawa, Chushiro.
 - Bunseki Kagaku. v. 22(7) p. 929-931. (1973).

MATERIALS

- 73185 The effect of pre-stressing and annealing on the Young's modulus of some nuclear graphites.
- Eto, Motokuni; Oku, Tatsuo.
 - J. Nucl. Mater. v. 46(3) p. 315-323. (1973).
- 73186 Change in electrical resistivity of nuclear graphite during compressive tests.
- Eto, Motokuni; Usui, Takeshi; Oku, Tatsuo.
 - J. Nucl. Mater. v. 45(4) p. 347-350. (1973).
- 73187 Influence of recrystallization on the high-temperature embrittlement

- of austenitic stainless steel induced by α -irradiation.
- Furuta, Teruo; Kawasaki, Satoru.
 - J. Nucl. Mater. v. 47(1) p. 102-104. (1973).
- 73188 The effect of cold working on creep rupture properties for helium-injected austenitic stainless steel.
- Furuta, Teruo; Kawasaki, Satoru; Nagasaki, Ryukichi.
 - J. Nucl. Mater. v. 47(1) p. 65-71. (1973).
- 73189 The Effect of cold working on creep properties of 316 stainless steel used as a fuel cladding in fast breeder reactors. (In Japanese).
- Furuta, Teruo; Ogawa, Yutaka; Nagasaki, Ryukichi.
 - Tetsu To Hagane. v. 59(7) p. 949-954. (1973).
- 73190 Coating microspheres with zirconium carbide.
- Ikawa, Katsuichi; Iwamoto, Kazumi.
 - J. Nucl. Mater. v. 45(1) p. 67-68. (1972).
- 73191 Coating microspheres with zirconium carbide-carbon composite by the methylene dichloride process.
- Ikawa, Katsuichi; Iwamoto, Kazumi.
 - Yogyo Kyokai-Shi. v. 81(10) p. 403-406. (1973).
- 73192 Electron irradiation hardening of copper and copper alloys at 78 and 300 K.
- Kamada, Koji; Yoshizawa, Isao*; Naramoto, Hiroshi.
 - Phys. Status Solidi. v. 18(1) p. 377-386. (1973).
- 73193 Contribution of boron to radiation effect for pressure vessel steel weldment.
- Kawasaki, Satoru.
 - J. Nucl. Sci. Technol. (Tokyo). v. 10(8) p. 515-516. (1973).
- 73194 Induced F aggregate centres in NaF crystals irradiated with charged particles at low temperature.
- Kikuchi, Akira*; Ozawa, Kunio.
 - Phys. Status Solidi. v. 18(2) p. 567-578. (1973).
- 73195 Porosity dependence of thermal conductivity of uranium mononitride.
- Kikuchi, Takeo; Takahashi, Tadashi; Nasu, Shoichi.
 - J. Nucl. Mater. v. 45(4) p. 284-292. (1973).
- 73196 Corrosion fatigue of ASTM A-302B steel in high temperature water, the simulated nuclear reactor environment. Corrosion fatigue, chemistry, mechanics and microstructure.
- Kondo, Tatsuo; Kikuyama, Toshihiko; Nakajima, Hajime; Shindo, Masami; Nagasaki, Ryukichi.
 - International corrosion conference. Storrs, Conn., USA. 14 Jun 1971.
 - 1972. NACE-2 p. 539-556.
- 73197 Transmission electron microscopic studies of twin structure of uranium dicarbide.
- Kurasawa, Toshimasa; Shiozawa, Kenichi; Nasu, Shoichi; Kikuchi, Takeo; Uchida, Yuji*.
 - J. Nucl. Mater. v. 45(1) p. 63-66. (1972).
- 73198 Turbulent heat transfer of sodium in a circular tube. (In Japanese).
- Kuroyanagi, Toshiyuki; Ishiguro, Ryoji*; Ochiai, Masaaki*; Furukawa, Kazuo.
 - Nippon Kikai Gakkai Ronbunshu. v. 38(315) p. 2897-2905. (1972).
- 73199 Uranium positions in cubic U_3N_{4+x} .
- Masaki, Norio; Tagawa, Hiroaki; Tsuji, Toshihide*.
 - J. Nucl. Mater. v. 45(3) p. 230-234. (1972).
- 73200 Recovery of electrical resistivity in neutron irradiated uranium monocarbides.
- Matsui, Hisayuki*; Kirihara, Tomoo*; Ohmichi, Toshihiko.
 - J. Nucl. Sci. Technol. (Tokyo). v. 9(10) p. 618-619. (1972).

- 73201 Annealing of reactor-grade graphite irradiated with neutrons at 350 deg C. Effect on electrical resistivity and thermal conductivity.
- Matsuo, Hideto; Honda, Toshio.
- J. Nucl. Mater. v. 45(1) p. 79-81. (1972).
- 73202 Changes in the Young's modulus of neutron-irradiated reactor-grade graphite by thermal annealing.
- Matsuo, Hideto; Honda, Toshio.
- J. Nucl. Mater. v. 48(2) p. 207-209. (1973).
- 73203 Kinetics of carbon transfer governing compatibility between uranium carbide and stainless steel bonded with sodium.
- Nishio, Gunji; Shimokawa, Junichi.
- J. Nucl. Mater. v. 47(1) p. 87-94. (1973).
- 73204 Uranium-fluorine lattice vibrations of β_1 -dipotassium uranium fluoride.
- Ohwada, Ken.
- J. Chem. Phys. v. 58(10) p. 4051-4055. (1973).
- 73205 Uranium-oxygen lattice vibrations of triuranium octoxide.
- Ohwada, Ken; Soga, Takeshi.
- Spectrochim. Acta, Part A. v. 29(5) p. 843-850. (1973).
- 73206 The annealing out of neutron produced defects as a result of low temperature irradiations. Proceedings of the 1973 international conference on defects and defect clusters in B.C.C. metals and their alloys.
- Okuda, Shigeo.
- 1973 international conference on defects and defect clusters in B.C.C. metals and their alloys. Gaithersburg, Maryland, USA. 14 Aug 1973.
- 1973. p. 81-107.
- 73207 Change in the DTA curve for glassy carbon under air oxidation. (In Japanese).
- Saito, Tamotsu; Honda, Toshio; Eto, Motokuni.
- Tanso. (no.75) p. 131-132. (1973).
- 73208 Sorption of gaseous bromine trifluoride on sodium fluoride.
- Sakurai, Tsutomu.
- Inorg. Chem. v. 11(12) p. 3110-3112. (1972).
- 73209 Radiation and anneal hardening in vanadium.
- Shiraishi, Kensuke; Fukaya, Kiyoshi; Katano, Yoshio.
- J. Nucl. Mater. v. 44(2) p. 228-238. (1972).
- 73210 Melting behavior of irradiated poly(vinylidene fluoride). (In Japanese).
- Suwa, Takeshi; Seguchi, Tadao; Makuuchi, Keizo; Abe, Toshihiko; Tamura, Naoyuki; Takehisa, Masaaki.
- Nippon Kagaku Kaishi. v. 1973(5) p. 1046-1051. (1973).
- 73211 Boron distribution in hastelloy-x.
- Tanaka, Mitsuo; Kawasaki, Satoru.
- Letter-to-the-editor.
- J. Nucl. Mater. v. 48(3) p. 360-364. (1973).
- 73212 Effect of heat treatment for the distribution of boron in incoloy-800 alloy.
- Tanaka, Mitsuo; Kawasaki, Satoru.
- J. Nucl. Mater. v. 45(1) p. 82-86. (1972).
- 73213 The $U_{sub(0.8)}Pu_{sub(0.2)}C-W$ system.
- Ugajin, Mitsuhiro.
- J. Nucl. Mater. v. 47(2) p. 205-218. (1973).
- 73214 The ternary compound $PuWC_{sub(1.75)}$.
- Ugajin, Mitsuhiro; Abe, Jiro.
- J. Nucl. Mater. v. 47(1) p. 117-120. (1973).

ALL EFFECTS AND VARIOUS ASPECTS OF EXTERNAL RADIATION IN BIOLOGY

- 73215 Identification of osmophilic aspergillus isolated from rice and their radio-sensitivity.
- Ito, Hitoshi; Iizuka, Hiroshi; Sato, Tomotaro.
- Agr. Biol. Chem. (Tokyo). v. 37(4) p. 789-798. (1973).
- 73216 Radiolysis of biotin on aqueous solution, 1. Irradiation treatment of medium on L-glutamic acid fermentation, 1. (In Japanese).
- Watanabe, Hiroshi; Sato, Tomotaro.
- Hakko To Taisha. (no.27) p. 50-56. (1973).

RADIONUCLIDE EFFECTS AND KINETICS

- 73217 Deposition fraction and effective half life of Iodine-131 in human thyroid. (In Japanese).
- Izumi, Yukio; Fujita, Minoru; Yabe, Akira.
- Hoken Butsuri. v. 7(4) p. 213-219. (1972).
- 73218 A method of determination of correction factors for different body builds in the assessment of Pu-239 in lung.
- Shirotani, Takashi; Fujita, Minoru.
- J. Nucl. Sci. Technol. (Tokyo). v. 10(5) p. 301-308. (1973).
- 73219 Effectiveness of DTPA for the removal of in vivo ^{147}Ce accompanied with different levels of carrier.
- Takada, Kazuo.
- Health Phys. v. 23(4) p. 481-489. (1972).
- 73220 Effects of DTPA on the excretion and tissue distribution of ^{147}Ce administered subcutaneously, intramuscularly and intravenously in rats.
- Takada, Kazuo; Fujita, Minoru.
- J. Radiat. Res. v. 14(2) p. 167-197. (1973).
- 73221 Method and practice of radioactive skin decontamination. (In Japanese).
- Yasunaka, Hideo; Wadachi, Yoshiki.
- Hoken Butsuri. v. 8(1) p. 25-31. (1973).

APPLIED LIFE SCIENCES

- 73222 Radiation preservation of vienna sausage, 1. Dose distribution in packages. (In Japanese).
- Aoki, Shohei; Kume, Tamikazu; Ito, Hitoshi; Watanabe, Hiroshi; Sato, Tomotaro.
- Shokuhin Shosha. v. 7(1) p. 43-49. (1972).
- 73223 Sterilization of laboratory animal diets by ionizing radiation. (In Japanese).
- Ito, Hitoshi; Iizuka, Hiroshi; Sato, Tomotaro.
- JAERI-M-5249. May 1973. 9 p.
- 73224 Changes in the microflora of vienna sausages after irradiation with gamma-rays and storage at 10 deg C.
- Ito, Hitoshi; Sato, Tomotaro.
- Agr. Biol. Chem. (Tokyo). v. 37(2) p. 233-242. (1973).

HEALTH, SAFETY AND ENVIRONMENT

- 73225 Behavior of sodium oxide aerosol in a closed chamber.
- Kitani, Susumu; Matsui, Hiroshi; Uno, Seiichiro; Murata, Mikio; Takada, Junichi.
- J. Nucl. Sci. Technol. (Tokyo). v. 10(9) p. 566-573. (1973).
- 73226 New concept of stack monitor and its design. (In Japanese).
- Moriuchi, Shigeru; Miyanaga, Ichiro.
- Nippon Genshiryoku Gakkai-Shi. v. 15(7) p. 509-515. (1973).
- 73227 Method for improving the collecting performance of iodine samplers under high relative humidity.
- Naritomi, Mitsuo; Yoshida, Yoshikazu; Fukuda, Seiji.
- J. Nucl. Sci. Technol. (Tokyo). v. 10(5) p. 292-300. (1973).
- 73228 Safety testing of radiation sources, 1. A study on the method of contamination and leakage tests. (In Japanese).
- Ohno, Akira*; Takishima, Nobuo*; Nojiri, Toshiaki*; Maebashi, Yoichi*; Maeda, Syo; Tani, Akira*; Kamata, Toshimasa*; Suzuki, Hideyo*.
- Radioisotopes (Tokyo). v. 22(7) p. 395-403. (1973).
- 73229 Records of the radiation control for JPDR-I. (In Japanese).
- Saito, Chikashi; Sasaki, Yukio; Ogura, Teruo; Tamura, Katsuhiro; Nomura, Isamu; Kuniya, Yasuji; Furuta, Toshishiro; Yoshida, Kikuo.
- JAERI-M-5084. Jan 1973. 60 p.
- 73230 On the treatment of ozone and nitrogen oxides produced in operation of high dose rate electron accelerator. (In Japanese).
- Sugiura, Toshio; Nakai, Yohta; Takagaki, Torao; Gotoda, Masao; Kamiyama, Hideo; Takezaki, Junichi; Nagai, Siro.
- JAERI-M-5388. Sep 1973. 64 p.

ISOTOPES AND RADIATION SOURCES

- 73231 Development of techniques of I-131 production. (In Japanese).
- Amano, Hiroshi; Shikata, Eiji; Iguchi, Akira; Izumo, Mishioku; Suzuki, Kyohei.
- JAERI--1232. Dec 1973. 61 p.
- 73232 Irradiations during test utilization of JMTR. Production of radioisotopes. (In Japanese).
- Div. of Radioisotope Product.
- JAERI-M-5363. Aug 1973. 41 p.
- 73233 Progress report of the Division of Radioisotope Production for fiscal 1971. (In Japanese).
- Div. of Radioisotope Product.
- JAERI-M-5413. Oct 1973. 67 p.
- 73234 Irradiation apparatus for the calibration of gamma survey instruments. (In Japanese).
- Okuyama, Noboru; Minami, Kentaro; Simizu, Satoru; Fukuda, Seishi.
- JAERI-M-5293. Jun 1973. 21 p.
- 73235 High-power X-ray generator for irradiations. (In Japanese).
- Oshima, Yunosuke; Watanuki, Takashi; Kameyama, Kenji; Tanaka, Ryuichi.
- JAERI-M-5223. May 1973. 64 p.
- 73236 A consideration on the estimation of organ doses due to external exposure. (In Japanese).
- Zeow, Chung-wei*; Kumazawa, Shigeru; Tatsuta, Hatsumi; Kawanishi,

- Kenji*.
- Hoken Butsuri. v. 8(2) p. 79-87. (1973).

ISOTOPE AND RADIATION APPLICATIONS

- 73237 Isotope dilution method for the determination of mercury in an industrial electrolytic cell. (In Japanese).
- Radioisotope Center.
- JAERI-M--5097. Jan 1973. 35 p.
- 73238 Pilot plant for radiation-induced, solid-state polymerization of trioxane. (In Japanese).
- Sakamoto, Masahiro; Nishimura, Koichi; Iwai, Tadashi*; Nakamura, Gosei*; Ito, Akihiko.
- JAERI-M--5057. Dec 1972. 40 p.
- 73239 Production of powdery polyethylene from the slurry obtained in the wet-wall type radiation polymerization pilot plant. The effect of slurry drying method on the specific surface area of the powder. (In Japanese).
- Suigo, Takanobu; Takehisa, Masaaki; Machi, Sueo.
- JAERI-M--5451. Nov 1973. 9 p.
- 73240 Transparent polyethylene film produced by irradiation. (In Japanese).
- Yamaguchi, Kouichi; Tsukamoto, Yoshinori*; Machi, Sueo.
- JAERI-M--5455. Nov 1973. 43 p.

ENGINEERING

- 73241 A theory of the pressure wave propagation in a two-phase gas and liquid mixture. (In Japanese).
- Adachi, Hiromichi.
- JAERI-M--5345. Jul 1973. 42 p.
- 73242 High speed two-phase flow, 1. Theory on axial change of flow parameters and critical flows. (In Japanese).
- Adachi, Hiromichi.
- Nippon Genshiryoku Gakkai-Shi. v. 15(10) p. 693-701. (1973).
- 73243 Cyclotron instabilities in a finite pressure plasma, 2.
- Amano, Tsuneo*; Shimomura, Yasuo; Yamamoto, Shin*.
- J. Phys. Soc. Jap. v. 34(6) p. 1593-1599. (1973).
- 73244 Radiative heat transfer by solid suspension turbulent flow with radiating fluid in a circular tube with constant wall temperature.
- Echigo, Ryoza*; Hasegawa, Shu*; Takechi, Eisuke*; Okamoto, Yoshizo.
- Nippon Genshiryoku Gakkai-Shi. v. 15(8) p. 557-561. (1973).
- 73245 Performance tests of A542 class 1 heavy section steel and its weld for nuclear vessels. (In Japanese).
- Fujimura, Tadato; Kodaira, Tsuneo; Susukida, Hiroshi*; Ando, Tomozumi*.
- JAERI-M--5297. Jun 1973. 40 p.
- 73246 Analysis of transient heat transfer for turbulent flow in annulus, 1. Heating element with a finite thermal capacity and no thermal resistance. (In Japanese).
- Kawamura, Hiroshi.
- Nippon Kikai Gakkai Ronbunshu. v. 39(324) p. 2498-2511. (1973).
- 73247 Acceleration of nitrogen ions by 2 MV Van de Graaff accelerator. (In Japanese).
- Kobayashi, Chiaki; Kanda, Susumu.
- JAERI-M--5032. Nov 1972. 16 p.
- 73248 Neutron capture measurements at the JAERI linac. (In Japanese).

- Mizumoto, Motoharu.
 - 3. seminar on neutron cross sections. Tokai, Ibaraki, Japan. 9 Nov 1972.
 - JAERI--1228. Jul 1973. p. 117-126.
- 73249 Automatic voltage conditioner for the JAERI 5.5 MV Van de Graaff accelerator. (In Japanese).
- Sato, Yutaka; Yoshida, Tadashi.
 - JAERI-M--5454. Nov 1973. 17 p.
- 73250 Creep and creep-rupture tests of domestic SUS 316 stainless steel as a structural material of the fast breeding reactor. (In Japanese).
- Yokoi, Shin*; Monma, Yoshio*; Fujimura, Tadato; Kodaira, Tsuneo.
 - JAERI-M--5269. May 1973. 35 p.
- NUCLEAR REACTORS (GENERAL)
- 73251 Measurement of differential thermal neutron spectra in graphite poisoned with indium, cadmium and samarium by time-of-flight method.
- Akino, Fujiyoshi; Kaneko, Yoshihiko; Hanna, S.F*; Kurokawa, Ryosuke; Kitadate, Kenji.
 - JAERI-M--5399. Sep 1973. 39 p.
- 73252 Measurements of angular-dependent thermal neutron spectra in a natural uranium-light water slab lattice. (In Japanese).
- Akino, Fujiyoshi; Kaneko, Yoshihiko; Kitadate, Kenji; Kurokawa, Ryosuke.
 - JAERI-M--5173. Feb 1973. 40 p.
- 73253 ICARUS. 1: A computer code for transient analysis of the multi-purpose high-temperature reactor plant performance. (In Japanese).
- Ezaki, Masahiro; Shinoda, Wataru; Mitake, Susumu; Kawamura, Hiroaki*.
 - JAERI-M--5058. Nov 1972. 76 p.
- 73254 Analysis of core meltdown and disassembly accidents in a fast reactor. (In Japanese).
- Hirakawa, Naohiro.
 - JAERI-M--5095. Feb 1973. 110 p.
- 73255 The time eigenvalue of fundamental mode in fast multiplying systems. (In Japanese).
- Hiraoka, Toru.
 - JAERI-M--5234. Apr 1973. 97 p.
- 73256 A role of spectrum measurement in fast assembly. (In Japanese).
- Iijima, Tsutomu; Shirakata, Keisho; Mukaiyama, Takehiko.
 - 3. seminar on neutron cross sections. Tokai, Ibaraki, Japan. 9 Nov 1972.
 - JAERI--1228. Jul 1973. p. 91-96.
- 73257 Analysis of control rod worths in the NSRR. Reactor physics and nuclear design of the Nuclear Safety Research Reactor, 3. (In Japanese).
- Ise, Takeharu; Nakahara, Yasuaki.
 - JAERI-M--5361. Aug 1973. 48 p.
- 73258 Study on the code CONTEMPT - an analytical model for the containment temperature and pressure behavior. (In Japanese).
- Ishikawa, Michio; Sato, Kazuo; Aoyama, Isao; Koseki, Morifumi*; Hatta, Hiroshi*; Akimoto, Masayuki; Andoh, Hiroe; Shimegi, Nobuo*; Nabera, Takaaki*; Masuda, Fujio*.
 - JAERI-M--5339. Jul 1973. 85 p.
- 73259 Measurement of anisotropic neutron diffusion coefficients in the H₂O-Al square lattices by pulsed neutron method. (In Japanese).
- Kaneko, Yoshihiko; Akino, Fujiyoshi; Suzuoki, Yoshiro*; Kitadate,

- Kenji; Kurokawa, Ryosuke; Koyama, Kinji.
- JAERI-M--5351. Aug 1973. 34 p.
- 73260 Analyses of FCA-V-2 experiments using the JAERI fast set. (In Japanese).
- Katsuraqi, Sa^otoru.
- 3. seminar on neutron cross sections. Tokai, Ibaraki, Japan. 9 Nov 1972.
- JAERI--1228. Jul 1973. p. 195-197.
- 73261 Optimization in nuclear reactor systems by a statistical search method. (In Japanese).
- Kitamura, Masaharu*; Shinohara, Yoshikuni.
- JAERI-M--5131. Feb 1973. 53 p.
- 73262 Adjustment of cross section data by using integral data. (In Japanese).
- Kuroi, Hideo.
- 3. seminar on neutron cross sections. Tokai, Ibaraki, Japan. 9 Nov 1972.
- JAERI--1228. Jul 1973. p. 97-101.
- 73263 Effect of group collapsing in perturbation theory for sample worth analysis.
- Kuroi, Hideo; Mitani, Hiroshi; Hirota, Jitsuya.
- J. Nucl. Sci. Technol. (Tokyo). v. 10(3) p. 139-145. (1973).
- 73264 Cross section data and specifications of AGLI/0 for fast reactor analysis. Adjusted group library by integral data.
- Kuroi, Hideo; Tone, Tatsuzo.
- JAERI--1230. Nov 1973. 35 p.
- 73265 Dynamic analyses and experiments on OWL-0 for computerized control. (In Japanese).
- Mankin, Shuichi.
- JAERI-M--5336. Jul 1973. 83 p.
- 73266 Higher order perturbation method in reactor calculations.
- Mitani, Hiroshi.
- Nucl. Sci. Eng. v. 51(2) p. 180-188. (1973).
- 73267 Some properties of the higher order perturbation method. One group diffusion approximation.
- Mitani, Hiroshi.
- JAERI-M--5325. Jul 1973. 30 p.
- 73268 Temperature analysis for the fuel subassembly of sodium cooled FBR. Code: FATEC-2-ROD. (In Japanese).
- Miyamoto, Yoshiaki.
- JAERI-M--5119. Feb 1973. 37 p.
- 73269 Analysis on the gas-turbine cycle characteristics. (In Japanese).
- Muto, Yasushi; Kajiyama, Takeyoshi.
- JAERI-M--5164. Feb 1973. 62 p.
- 73270 Physical properties of graphite and its thermal neutron scattering characteristics. (In Japanese).
- Nakahara, Yasuaki.
- JAERI-M--5245. Apr 1973. 65 p.
- 73271 Interpretation of the central cell reactivity worth and experimental determination of a characteristic value of the reactor cell composition $k_{sub}(m)^+$.
- Nakano, Masafumi; Iijima, Tsutomu.
- J. Nucl. Sci. Technol. (Tokyo). v. 10(2) p. 69-79. (1973).
- 73272 Absolute power measurement by reactor noise analysis.
- Nakata, Hirokatsu.
- JAERI-M--5178. Feb 1973. 17 p.

- 73273 Development of burnup determination technique by destructive measurement. (In Japanese).
 - Natsume, Haruo; Okashita, Hiroshi; Umezawa, Hirokazu.
 - Nippon Genshiryoku Gakkai-Shi. v. 15(4) p. 239-247. (1973).
- 73274 Estimation of the maximum permissible burnup of uranium carbide fuel pins from the aspect of fuel-clad compatibility under in-pile simulated conditions.
 - Nishio, Gunji; Watanabe, Hitoshi; Shimokawa, Junichi.
 - Nucl. Eng. Des. v. 22(2) p. 326-333. (1972).
- 73275 Experimental analysis of JRR-4 reactor noises on various reactor power and coolant flow rate. (In Japanese).
 - Oka, Yoshiaki*; Tomii, Kakuzo; An, Shigehiro*.
 - JAERI-M--5295. Jun 1973. 25 p.
- 73276 The safety evaluation test of cold pressed Al capsule for radioisotope production. (In Japanese).
 - Ooka, Norikazu; Itami, Hiroharu; Nomura, Sueo.
 - Keikin-zoku Yosetsu. (no.116) p. 337-345. (1972).
- 73277 Group constants of fission products for thermal reactor. Final report of FP working group. (In Japanese).
 - Sakata, Hajime*; Nagayama, Satoshi*; Ohtake, Iwao*; Matsunobu, Hiroyuki*; Saito, Keiichi*.
 - JAERI--1226. Mar 1973. 27 p.
- 73278 Evaluation of the second-order perturbation terms by the generalized perturbation method.
 - Seki, Yasushi.
 - Nucl. Sci. Eng. v. 51(2) p. 243-251. (1973).
- 73279 Study of the perturbation methods used in fast reactor analysis. (In Japanese).
 - Seki, Yasushi.
 - JAERI-M--5076. Dec 1972. 37 p.
- 73280 Estimation of time-varying reactivity using a method of nonlinear filtering.
 - Shinohara, Yoshikuni; Oguma, Ritsuo.
 - Nucl. Sci. Eng. v. 52(1) p. 76-83. (1973).
- 73281 Analysis by BELAP-2 code for blowdown experiments simulating a loss-of-coolant accident in BWR. (In Japanese).
 - Sobajima, Makoto.
 - Nippon Genshiryoku Gakkai-Shi. v. 15(8) p. 562-568. (1973).
- 73282 Development of fission gas pressure measurement technique in the JMTR.
 - Tanaka, Isao; Onodera, Kazuyuki.
 - J. Nucl. Sci. Technol. (Tokyo). v. 10(5) p. 309-319. (1973).
- 73283 In-core neutron measurements using self-powered neutron detectors. (In Japanese).
 - Tojo, Takao; Kondo, Makoto; Teranishi, Kazuo*.
 - Hitachi Hyoron. v. 54(5) p. 1-5. (1972).
- 73284 Effects of fission products on the physics parameters of large fast reactors and uncertainties in the physics parameters due to the fission-product nuclear data uncertainties.
 - Tone, Tatsuzo.
 - JAERI-M--5449. Nov 1973. 62 p.

REACTOR TYPES

- 73285 Examination of the used JRR-4 fuel and burn-up measurement by gamma-ray scanning. (In Japanese).

- Adachi, Mamoru; Matsuno, Kenji; Uchiyama, Junzo; Sato, Hiroshi; Takayanaqi, Hiroshi; Morozumi, Minoru.
- JAERI-M-5225. Apr 1973. 55 p.

- 73286 High temperature gas loops SGL and HTGL. (In Japanese).
 - Heat Transfer Lab.
 - JAERI-M-5152. Mar 1973. 17 p.

- 73287 Design of a PuO₂-UO₂ assembly for the JPDR-II core. (In Japanese).
 - Naitoh, Yoshitaka; Onuki, Ryoichi*; Matsuura, Shojiro.
 - JAERI-M-5189. Mar 1973. 33 p.

- 73288 Analysis of sodium void reactivity measured in FCA V-1 assembly.
 - Nakagawa, Masayuki; Takano, Hideki; Katsuragi, Satoru.
 - J. Nucl. Sci. Technol. (Tokyo). v. 10(7) p. 419-427. (1973).

- 73289 Conceptual design study of single-fluid molten-salt breeder reactor, 1. (In Japanese).
 - Ohmichi, Toshihiko; Furukawa, Kazuo; Kato, Yoshio; Ohno, Hideo; Katsuta, Hiroji.
 - JAERI-M-5181. Mar 1973. 130 p.
 - Translated from ORNL-4541(Jun 1971).

- 73290 Technical status of the linear heat rating estimation with JMTRC critical facility. (In Japanese).
 - Project Engineering Sect., JMTR.
 - JAERI-M-5410. Oct 1973. 87 p.

- 73291 Operation report on the low temperature fissiochemical loop (LTFL), 3. Operations during the period of April 1971 to March 1972. (In Japanese).
 - Sato, Shoichi; Moriyama, Noboru; Ikezoe, Yasumasa; Shimizu, Saburo; Kobayashi, Toshiaki; Okamoto, Jiro; Hamanoue, Kumao; Tokunaga, Okihiro; Yamazaki, Yasaburo; Danno, Akibumi.
 - JAERI-M-5360. Aug 1973. 16 p.

- 73292 Design and operational features of the low temperature fissiochemical loop.
 - Sato, Shoichi; Moriyama, Noboru; Ikezoe, Yasumasa; Ishii, Toshio; Hirata, Mitsuho; Yamazaki, Yasaburo; Danno, Akibumi; Oshima, Keiichi*.
 - J. Nucl. Sci. Technol. (Tokyo). v. 10(6) p. 379-384. (1973).

- 73293 Operation report on the low temperature fissiochemical loop (LTFL), 4. Operations during the period of April 1972 to March 1973. (In Japanese).
 - Sato, Shoichi; Moriyama, Noboru; Kobayashi, Toshiaki; Ikezoe, Yasumasa; Shimizu, Saburo; Yamazaki, Yasaburo; Danno, Akibumi.
 - JAERI-M-5421. Oct 1973. 49 p.

- 73294 Operation and maintenance experiences with research reactors, Japan Atomic Energy Research Institute.
 - Takada, Minoru; Fukazawa, Kunitake; Kohayakawa, Toru; Ishii, Toshio; Morozumi, Minoru.
 - South East Asia and Far-East regional study group meeting on problems and experience in the utilization of research reactors. Bombay, India. 5 Mar 1973.
 - JAERI-M-5415. Oct 1973. 33 p.

- 73295 Improvements of reactor neutron flux utilization.
 - Takada, Minoru; Fukazawa, Kunitake; Kohayakawa, Toru; Ishii, Toshio; Morozumi, Minoru.
 - South East Asia and Far-East regional study group meeting on problems and experience in the utilization of research reactors. Bombay, India. 5 Mar 1973.
 - JAERI-M-5416. Oct 1973. 7 p.

- 73296 Determination of bubble-size distribution in a BWR.
 - Uga, Takeo.
 - Nucl. Eng. Des. v. 22(2) p. 252-261. (1972).

- 73297 Correlation of amounts of transplutonium nuclides with burnup in the JPDR-I spent fuel.
- Umezawa, Hirokazu; Ichikawa, Shin-ichi; Suzuki, Toshio; Okashita, Hiroshi; Natsume, Haruo.
- J. Nucl. Sci. Technol. (Tokyo). v. 10(8) p. 489-492. (1973).

INSTRUMENTATION

- 73298 Transfer function of a peak-height type magnetic amplifier. (In Japanese).
- Ara, Katsuyuki; Kawaguchi, Chiyoji.
- Denki Gakkai Ronbunshi, C. v. 93(3) p. 56-63. (1973).
- 73299 Nuclear accident dosimetry system in JAERI. With experiments of simulated criticality accident.
- Bingo, Kazuyoshi; Numakunai, Takao; Fujita, Minoru.
- JAERI--1229. Jul 1973. 31 p.
- 73300 Calculation of the response function of semiconductor proton recoil counters with a radiator of finite thickness.
- Gotoh, Hiroshi; Yagi, Hideyuki; Harayama, Yasuo.
- Nucl. Instrum. Methods. v. 109(2) p. 349-353. (1973).
- 73301 Test on the characteristics of an ultrasonic anemometer. (In Japanese).
- Hayashi, Takashi; Suga, Sinichi; Kakuta, Michio.
- JAERI-M--5221. Mar 1973. 29 p.
- 73302 A beta- and compton-suppressed spectrometer for internal conversion study.
- Ishii, Mitsuhiko.
- Nucl. Instrum. Methods. v. 107(2) p. 227-232. (1973).
- 73303 Fundamental considerations on 2f-type magnetic amplifier for small signals. (In Japanese).
- Kawaguchi, Chiyoji; Ara, Katsuyuki.
- Denki Gakkai Ronbunshi, C. v. 92(4) p. 184-190. (1972).
- 73304 Remotely controlled time-dividing spectrum stabilization.
- Kawarasaki, Yuuki.
- Nucl. Instrum. Methods. v. 105(1) p. 37-44. (1972).
- 73305 Estimation by smearing of the level of tritium surface contamination. (In Japanese).
- Kitano, Kyoshiro; Ikezawa, Yoshio; Harada, Yasunori; Kokubun, Morinobu; Kajimoto, Yoichi.
- Hoken Butsuri. v. 8(2) p. 67-71. (1973).
- 73306 Preliminary test of the three-wire-TC sodium-temperature-fluctuation sensor for the transit-time-flowmeter and for the LMFBR subassembly early-warning.
- Kuwabara, Jun; Hasegawa, Ken-ichi*; Nozaki, Masanori*; Kobayashi, Kazuo*; Murata, Hiroshi*.
- IEEE Trans. Nucl. Sci. v. 20(1) p. 618-626. (1973).
- 73307 Non-linear energy weighting circuit using discriminator bias modulation for NaI(Tl) scintillation exposure-rate meter. (In Japanese).
- Moriuchi, Shigeru.
- JAERI-M--5374. Aug 1973. 15 p.
- 73308 Determination of the number concentration of aerosol particles by light scattering method with an efficient device.
- Okada, Takashi*; Itoh, Kazuko*; Kitani, Susumu.
- J. Colloid Interface Sci. v. 42(1) p. 88-95. (1973).
- 73309 A method for detecting embrittlement of metals due to various causes.

Mechanical behavior of materials.

- Oku, Tatsuo; Usui, Takeshi.
- International conference on mechanical behavior of materials. Kyoto, Japan. 15 Aug 1971.
- 1972. v. 5 p. 398-406.

- 73310 Design of the continuous-measuring, sodium level-meter. (In Japanese).
- Sako, Kiyoshi; Hamano, Noboru.
- JAERI-M--5171. Feb 1973. 21 p.
- 73311 High sensitivity dosimetry by ^{14}C .
- Sato, Shoichi; Kamegashira, Naoki*; Tanabe, Hiromi*; Sasuga, Norihiko*; Danno, Akibumi; Shinagawa, Mitsuaki*; Tamura, Takaaki*; Naito, Keiji*.
- Chem. Lett. (Tokyo). (no.9) p. 1015-1016. (1973).
- 73312 Integral type fitting analysis of gamma-ray spectra from semiconductor detectors. (In Japanese).
- Tasaka, Kanji.
- JAERI-M--5067. Dec 1972. 36 p.
- 73313 Standard spectrum method for the analysis of gamma-ray spectra from semiconductor detectors.
- Tasaka, Kanji.
- Nucl. Instrum. Methods. v. 109(3) p. 547-556. (1973).

WASTE MANAGEMENT

- 73314 Radioactive waste management in Tokai Research Establishment, JAERI. (In Japanese).
- Div. of Health Physics and Safety.
- JAERI-M--5089. Jan 1973. 33 p.
- 73315 Compression treatment of low- and intermediate-level solid wastes containing plutonium. (In Japanese).
- Wadachi, Yoshiki; Shigaki, Yasunobu.
- JAERI-M--5274. May 1973. 12 p.

NUCLEAR DOCUMENTATION

- 73316 On existence of precedence functions of precedence grammars.
- Asai, Kiyoshi.
- Information Processing in Japan. v. 12 p. 113-118. (1972).
- 73317 Analysis and compiler construction of a programming language by precedence grammar. (In Japanese).
- Asai, Kiyoshi; Tomiyama, Mineyoshi.
- 14. programming symposium. Hakone, Kanagawa, Japan. 10 Jan 1973.
- Proc. Programming Symposium. v. 14 p. 176-187. (1973).
- 73318 Compiler construction by precedence grammars. (In Japanese).
- Asai, Kiyoshi; Tomiyama, Mineyoshi.
- Joho Shori. v. 14(7) p. 495-501. (1973).
- 73319 Basic plot-routines for USC-3 system. SUBROUTINE PLO(X,Y,IPEN) and SUBROUTINE NUN(X,Y,S,J,A). (In Japanese).
- Kawarasaki, Yuuki.
- JAERI-M--5299. Jun 1973. 24 p.
- 73320 Statistical analysis on indexing depth in INIS.
- Komatsubara, Yasutoshi.
- Dokumenteshon Kenkyu. v. 23(9) p. 287-293. (1973).
- 73321 Mechanization of the library works in JAERI. The first stage library-oriented system. (In Japanese).
- Library Sect.

MATHEMATICAL METHODS AND COMPUTER CODES

- 73322 A method of the gamma-ray spectrum analysis. FORTRAN IV programs 'BOB 73' for Ge(Li) detectors and 'NAISAP' for NaI(Tl) detectors.
- Baba, Hiroshi; Sekine, Toshiaki; Baba, Sumiko; Okashita, Hiroshi.
- JAERI--1227. Jun 1973. 66 p.
- 73323 Program for simultaneous on-line control of TOP and triple-axis neutron spectrometers. (In Japanese).
- Funahashi, Satoru.
- JAERI-M-5364. Aug 1973. 82 p.
- 73324 An utility code system for JAERI-Fast 70-group set : J-FAST-70U. (In Japanese).
- Hasegawa, Akira; Katsuragi, Satoru.
- JAERI-M-5381. Aug 1973. 60 p.
- 73325 Vibration of reactor structure, 2-8. FINALE-1: Response spectrum and Fourier spectrum analysis code. (In Japanese).
- Ikushima, Takeshi.
- JAERI-M-5064. Dec 1972. 29 p.
- 73326 Vibration of reactor structure, 2-9. TOROTO-1, -2: Seismic simulation program for core formed with blocks. (In Japanese).
- Ikushima, Takeshi.
- JAERI-M-5083. Dec 1972. 39 p.
- 73327 Vibration of reactor structure, 2-12. INTERLUDE-1: Seismic response analysis code. (In Japanese).
- Ikushima, Takeshi.
- JAERI-M-5166. Feb 1973. 29 p.
- 73328 Three programs for the use of magnetic tapes, (LOADFM), (STORTM) and (MTLIST), and the method of programming by direct KEY-IN. A trial for magnetic tape base system. (In Japanese).
- Kawarasaki, Yuuki.
- JAERI-M-5435. Oct 1973. 40 p.
- 73329 Computer program LSQKGD for the nonlinear least-squares method. (In Japanese).
- Koyama, Kinji; Sasamoto, Nobuo.
- JAERI-M-5133. Feb 1973. 11 p.
- 73330 GPICTUR-I: graphical figures input and output program by graphic display. (In Japanese).
- Nakamura, Yasuhiro; Onuma, Yosio.
- JAERI-M-5305. Jun 1973. 18 p.
- 73331 MSCOPE-I : A program system for analyzing the electron-microscope images of crystal lattice defects. (In Japanese).
- Nishida, Takahiko; Izui, Kazuhiko.
- JAERI-M-5441. Nov 1973. 66 p.
- 73332 Evaluation of the two-dimensional numerical calculation used in fast reactor neutronics. (In Japanese).
- Seki, Yasushi; Osugi, Toshitaka; Iijima, Susumu.
- JAERI-M-5307. Jun 1973. 52 p.
- 73333 Block-type reactor core thermal and hydraulic analysis code CROSS-2. (In Japanese).
- Suzuki, Kunihiro; Miyamoto, Yoshiaki.
- JAERI-M-5368. Aug 1973. 32 p.
- 73334 GERMONT: Monte-Carlo code for calculation of gamma-ray absolute efficiency of a true coaxial Ge(Li) semi-conductor detector. (In

- Japanese).
- Tanaka, Shun-ichi.
- JAERI-M--5148. Feb 1973. 19 p.

MISCELLANEOUS

- 73335 Report on the operation, utilization and technical development of Research Reactors and Hot Laboratory. April 1, 1971 to March 31, 1972. (In Japanese).
- Div. of Research Reactor Operation.
- JAERI-M--5025. Nov 1972. 183 p.
- 73336 Report on the operation, utilization and technical development of research reactors and hot laboratory. April 1, 1972 to March 31, 1973. (In Japanese).
- Div. of Research Reactor Operation.
- JAERI-M--5371. Aug 1973. 242 p.
- 73337 Progress report on the INIS operations no. 2. 1 April 1971 to 31 March 1973. (In Japanese).
- Div. of Technical Information.
- JAERI-M--5379. Aug 1973. 24 p.
- 73338 Technical publications by JAERI staff from January 1971 to December 1972.
- Div. of Technical Information.
- JAERI--5011(Vol.6). Mar 1973. 64 p.
- 73339 Health physics and safety in JAERI, No. 14. April 1, 1971-March 31, 1972. (In Japanese).
- Office of Safety and Control, Tokyo; Div. of Health Physics and Safety; Health Physics and Safety Sect., Oarai; Safety Sect., Takasaki.
- JAERI-M--5018. Dec 1972. 205 p.
- 73340 Health Physics and safety in JAERI, no. 15. April 1, 1972-March 31, 1973. (In Japanese).
- Office of Safety and Control, Tokyo; Div. of Health Physics and Safety; Safety Sect., Takasaki; Health Physics and Safety Sect., Oarai.
- JAERI-M--5370. Sep 1973. 240 p.
- 73341 Reports in thermal reactor group meetings, of reactor physics research committee, for fiscal 1971. (In Japanese).
- Reactor Physics Research Comm.
- JAERI-M--5139. Feb 1973. 66 p.
- 73342 Training of operators and maintenance personnel in the Division of Research Reactor Operation, Japan Atomic Energy Research Institute.
- Takada, Minoru; Fukazawa, Kunitake; Ishii, Toshio; Amano, Hiroshi.
- South East Asia and Far-East regional study group meeting on problems and experience in the utilization of research reactor. Bombay, India. 5 Mar 1973.
- JAERI-M--5414. Oct 1973. 11 p.

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Patents

British Patent

Pat-Brit-72 Improved method of processing stainless steel.
Kondo T., et al., No. 1290689

Canadian Patent

Pat-Can-8 Resin-forming composition and use thereof.
Gotoda M., et al., No. 913836

French Patents

Pat-F-73 Process for graft polymerizing polyvinyl chloride.
Kageyama E., et al., No. 7129599

Pat-F-74 Process for producing lumps of polymer.
Ito A., et al., No. 7146422

Pat-F-75 Process for graft polymerizing polyvinyle chloride.
Kageyama E., et al., No. 7131362

Pat-F-76 Process for producing polyoxymethylene.
Ito A., et al., No. 7001548

German Patent

Pat-G-27 Method for the purification and recovery of solvents
for reprocessing nuclear fuel.
Sakata S., et al., No. 1442430

Japanese Patents

Pat-J-400 Sealed valve for high temperature use.
Furukawa K., et al., No. 657878

Pat-J-401 Capsule for putting radioactive materials.
Sasaki Y., et al., No. 976266

Pat-J-402 Apparatus for exchanging fuel rods of liquid metal
cooled nuclear reactor.
Tamura T., et al., No. 659704

Pat-J-403	Neutron REM detector. Okuyama N., et al.,	No. 659708
Pat-J-404	Joint for high temperature pipe lines. Furukawa K., et al.,	No. 978852
Pat-J-405	Apparatus for enclosing pressure in nuclear reactor vessel. Torikai K., et al.,	No. 662319
Pat-J-406	Compressible gas filter. Matsushima H., et al.,	No. 979909
Pat-J-407	Heating method of liquid metal. Torikai K.,	No. 665608
Pat-J-408	Spacer of nuclear fuel assembly. Morishima A., et al.,	No. 666367
Pat-J-409	Nuclear fuel assembly. Okamoto Y., et al.,	No. 666366
Pat-J-410	Exchanging apparatus of specimen on thermobarance. Iwasaki M., et al.,	No. 985581
Pat-J-411	Apparatus for preventing liquid surface fluctuation in pump. Murao Y.,	No. 669579
Pat-J-412	Period meter. Kuwabara J., et al.,	No. 669563
Pat-J-413	Gripping tool. Asada A., et al.,	No. 990036
Pat-J-414	Process for producing sulphurous compound labeled by ^{35}S . Shikata E., et al.,	No. 678455
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Pat-J-416	Bearing for corrosive liquid. Murao Y.,	No. 683263
Pat-J-417	Improved method of processing stainless steel. Kondo T., et al.,	No. 687801

Pat-J-418	Protective circuit for switch connected with coils. Ara K., et al.,	No. 687800
Pat-J-419	Sealing apparatus of nuclear reactor vessel. Kinoshita T., et al.,	No. 689382
Pat-J-420	Measurement method of neutron. Wakayama N., et al.,	No. 689383
Pat-J-421	Nuclear reactor. Nozawa M., et al.,	No. 693123
Pat-J-422	Blanket used fire prevention. Furukawa K., et al.,	No. 693122
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Pat-J-433	Process for graft polymerizing polyester. Sakurada I., et al.,	No. 659737
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Pat-J-435	Process for polymerizing ethylene by to use radioactive liquid. Hagiwara M., et al.,	No. 663255
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Pat-J-445	Process for producing improved polyethylene materials. Takehisa M., et al.,	No. 668218
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Pat-J-447	Continuous irradiation apparatus. Tanaka S., et al.,	No. 670175
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Pat-J-457	Resin produced radiation curing. Gotoda M., et al.,	No. 673098
Pat-J-458	Process for producing resin. Kaetsu I., et al.,	No. 673281
Pat-J-459	Process for producing oxymethylene polymer. Ito A., et al.,	No. 673995
Pat-J-460	Method for drawing out gas in liquid. Miwa H., et al.,	No. 678456
U.S. Patents		
Pat-US-60	Remotely controllable defect detector of electric resistance type. Fujimura T., et al.,	No. 3699436

Pat-US-61	Method of decontaminating heavy water cooled and moderated reactor. Motojima K., et al.,	No. 3737373
Pat-US-62	Lower temperature solid phase polymerization of acrylonitrile in the presence of an oryonic carbonyl compound. Tabata Y., et al.,	No. 3679562
Pat-US-63	Method for preparing polyoxymethylene. Sakurada I., et al.,	No. 3682802
Pat-US-64	Method for grafting on polyester fibers with radiation. Ito A., et al.,	No. 3684767
Pat-US-65	Process for tetraoxane polymerization. Ito A., et al.,	No. 3686085
Pat-US-66	Polymerization of tetraoxane in the pressence of sulfur and sulfur compounds. Ito A., et al.,	No. 3703454
Pat-US-67	Process for manufacturing a durable oily stain resistant polyester fiber and its products. Sakurada I., et al.,	No. 3703406

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