

Technical Publications
by JAERI Staff

from January 1975
to December 1975

March 1977

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.

Requests for the JAERI reports in any of those lists should be addressed to: Division of Technical Information, Japan Atomic Energy Research Institute, Tokai-mura, Ibaraki-ken, Japan. These reports are also available at INIS Section, IAEA, Vienna, Austria, and at the national centers of INIS member states.

Technical Publications by JAERI Staff from January 1975 to December 1975

Technical Publications by JAERI Staff from January 1975 to December 1975

Approximately 400 journal articles, papers at meetings, reports and books are given, which have been published by personnel of JAERI from January 1975 to December 1975. 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 1977

Division of Technical Information
Japan Atomic Energy Research Institute

日本原子力研究所研究成果発表リスト(1975年1月~1975年12月)

1975年1月から1975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400件について、その標題・著者・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。

1977年3月

日本原子力研究所
技術情報部

Table of Contents

General Physics.....	1
Neutron and Nuclear Physics.....	5
Chemistry.....	6
Materials.....	13
Earth Sciences.....	15
All Effects and Various Aspects of External Radiation in Biology.....	15
Applied Life Sciences.....	16
Health, Safety and Environment.....	16
Isotopes and Radiation Source.....	16
Isotope and Radiation Applications.....	17
Engineering	17
Nuclear Reactors (General).....	18
Reactor Type.....	19
Instrumentation.....	20
Waste Management.....	21
Nuclear Documentation.....	22
Mathematical Methods and computer Codes.....	22
Miscellaneous.....	22
Personal Author Index.....	25
Corporate Author Index.....	30
Report Number Index.....	31
Patents.....	32

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 (PNR 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		
D24	Tracer Techniques		

GENERAL PHYSICS

- 75001 Numerical study of the time behaviour of impurity concentration in a tokamak.
 - Amano, Tsuneo*; Okamoto, Masao.
 - JAERI-M-6143. May 1975. 15 p.
- 75002 Thermal expansion behaviour through the magnetic transition in Cr_5S_4 .
 - Anzai, Shuichiro*; Hamaguchi, Yoshikazu.
 - J. Phys. Soc. Jap. v. 38(2) p. 400-403. (1975).
- 75003 Neutron scattering function in a Heisenberg paramagnet, application to KMnF_3 .
 - Betsuyaku, Hiroshi.
 - J. Phys. Soc. Jap. v. 38(1) p. 21-31. (1975).
- 75004 Neutron scattering investigation of magnetic excitations in KMnF_3 .
 - Betsuyaku, Hiroshi; Hamaguchi, Yoshikazu.
 - J. Phys. Soc. Jap. v. 37(4) p. 975-982. (1974).
- 75005 Neutron diffraction study of $\text{Ni}_{0.9}\text{Cu}_{0.1}\text{S}_2$.
 - Betsuyaku, Hiroshi; Hamaguchi, Yoshikazu; Ogawa, Shinji*.
 - J. Phys. Soc. Jap. v. 37(4) p. 983-985. (1974).
- 75006 Calculation of pair correlations in a degenerate electron liquid.
 - Chihara, Junzo.
 - Prog. Theor. Phys. (Kyoto). v. 53(2) p. 400-410. (1975).
- 75007 Electron spin resonance spectra of radical pairs in irradiated n-eicosane ($\text{C}_{20}\text{H}_{42}$) single crystal.
 - Fujimura, Takashi; Tamura, Naoyuki.
 - Rep. Prog. Polym. Phys. Jap. v. 17 p. 541-542. (1974).
- 75008 Measurement of impurity-ion lines and particle confinement time in tokamak-plasmas JFT-2. (In Japanese).
 - Funahashi, Akimasa; Kasai, Satoshi; Matoba, Tohru; Fujisawa, Noboru.
 - JAERI-M-5961. Jan 1975. 30 p.
- 75009 Fringe-shift interferometric apparatus for tokamak-plasma diagnostics. (In Japanese).
 - Funahashi, Akimasa; Takahashi, Kohki; Shimomura, Yasuo; Kitsunezaki, Akio; Nagashima, Takashi; Kumagai, Katsuaki.
 - JAERI-M-6166. Jul 1975. 53 p.
- 75010 Effect of hydrostatic pressure on the phase transitions in ferroelectric RbDSO_4 and RbDSO_6 .
 - Gesi, Kazuo; Ozawa, Kunio.
 - J. Phys. Soc. Jap. v. 38(2) p. 459-462. (1975).
- 75011 On the pressure-temperature phase diagram of ferroelectric triglycine selenate.
 - Gesi, Kazuo; Ozawa, Kunio.
 - J. Phys. Soc. Jap. v. 37(4) p. 1053-1055. (1974).
- 75012 Pressure-temperature phase diagram of $\text{Ca}_2\text{Ba}(\text{C}_2\text{H}_3\text{COO})_6$.
 - Gesi, Kazuo; Ozawa, Kunio.
 - J. Phys. Soc. Jap. v. 38(2) p. 467-470. (1975).
- 75013 Effect of hydrostatic pressure on the structural phase transitions in CsPbCl_3 and CsPbBr_3 .
 - Gesi, Kazuo; Ozawa, Kunio; Hirotsu, Shunsuke*.
 - J. Phys. Soc. Jap. v. 38(2) p. 463-466. (1975).
- 75014 An optimization of plasma feasibility experiment device. (In Japanese).
 - Gomay, Yoshio*; Ohta, Mitsuru; Yoshikawa, Masaji.
 - Rakuyugo Kenkyu. v. 32(5) p. 153-168. (1974).
- 75015 Recycling process of impurities in tokamak discharges.
 - Gomay, Yoshio*; Tazima, Teruhiko.
 - JAERI-M-6297. Nov 1975. 14 p.
- 75016 An approximate calculation method of energy utilization efficiency in gamma-irradiator. (In Japanese).
 - Hoshi, Tatsuo.
 - Nippon Genshiryoku Gakkai-Shi. v. 17(8) p. 432-438. (1975).
- 75017 Phase transition in SnTe with low carrier concentration.
 - Iizumi, Masashi; Hamaguchi, Yoshikazu; Komatsubara, K.F.*; Kato, Yoshiki*.
 - J. Phys. Soc. Jap. v. 38(2) p. 443-449. (1975).
- 75018 Temperature dependence of total free energy of activation for dislocation motion, 1. Copper crystals after electron irradiation.
 - Kamada, Koji; Yoshizawa, Isao*; Naramoto, Hiroshi.
 - Phys. Status Solidi (a). v. 29(1) p. 231-239. (1975).
- 75019 Temperature dependence of total free energy of activation for dislocation motion, 2. Copper crystals after irradiation with nearly mono-energetic neutrons.

- Kamada, Koji; Yoshizawa, Isao*; Naramoto, Hiroshi.
- Phys. Status Solidi (a) v. 29(2) p. 545-549. (1975).
- 75020 A kinetics model for the horizontal displacement of a toroidal plasma column. (In Japanese).
- Kambayashi, Yuichiro; Hara, Masao.
- JAERI-M--6292. Nov 1975. 45 p.
- 75021 Determination of magnetic configuration for MHD equilibrium in a large tokamak device. (In Japanese).
- Kameari, Akihisa*; Suzuki, Yasuo; Ninomiya, Hiromasa.
- JAERI-M--6027. Mar 1975. 16 p.
- 75022 MHD equilibrium code for design of poloidal magnetic configuration 'EQUCO'. (In Japanese).
- Kameari, Akihisa*; Suzuki, Yasuo; Ninomiya, Hiromasa.
- JAERI-M--6028. Mar 1975. 45 p.
- 75023 A method for measuring the thermal diffusivity of molten salts by stepwise heating.
- Kato, Yoshio; Kobayashi, Kiyoshi*; Araki, Nobuyuki*; Furukawa, Kazuo.
- J. Phys., E. v. 8(6) p. 461-464. (1975).
- 75024 A tri-atomic molecular ion in a gamma-irradiated CsF crystal.
- Kazumata, Yukio; Kato, Sohichi*; Ueda, Yoshibumi*; Nishi, Masato*.
- J. Phys. Soc. Jap. v. 38(1) p. 190-194. (1975).
- 75025 Toroidal plasma equilibria in an open shell with current-carrying conductors.
- Kitsunozaki, Akio; Maeda, Hikosuke; Shimomura, Yasuo.
- Nucl. Fusion. v. 14(5) p. 747-749. (1974).
- 75026 Electro-magnetic diagnostic system for DIVA. (In Japanese).
- Kitsunozaki, Akio; Shimomura, Yasuo; Maeda, Hikosuke; Tokutake, Toshikuni; Nagashima, Takashi; Ohtsuka, Hidewo; Nagami, Masayuki.
- JAERI-M--6144. Jun 1975. 34 p.
- 75027 Conversion of color centers in NaF during proton bombardment at temperature above RT.
- Kubo, Kazuko.
- J. Phys. Soc. Jap. v. 38(1) p. 288. (1975).
- 75028 Expansion induced by ion bombardment in crystals of LiF and NaF.
- Kubo, Kazuko.
- J. Phys. Soc. Jap. v. 38(3) p. 902. (1975).
- 75029 Interferometric investigation of ion-bombarded surfaces. (In Japanese).
- Kubo, Kazuko.
- JAERI-M--5977. Feb 1975. 25 p.
- 75030 The depth distribution of F center density in lithium fluoride crystal bombarded with electrons.
- Kubo, Kazuko.
- J. Phys. Soc. Jap. v. 37(5) p. 1469. (1974).
- 75031 Coloration of LiF and NaF by $N_{sub}(+)$ ion bombardment.
- Kubo, Kazuko; Kazumata, Yukio; Kawatsura, Kiyoshi.
- J. Phys. Soc. Jap. v. 37(6) p. 1715. (1974).
- 75032 The crystal structure of LiAl.
- Kuriyama, Kazuo*; Masaki, Norio.
- Acta Crystallogr., Sect. B. v. 31(6) p. 1793. (1975).
- 75033 A simple method to transfer specimens at liquid helium temperature.
- Maeta, Hiroshi; Kato, Teruo; Okuda, Shigeo.
- J. Phys., E. v. 8(7) p. 577-578. (1975).
- 75034 Scattering measurements in Tokamak type devices. (In Japanese).
- Matoba, Tohru.
- JAERI-M--6042. Mar 1975. 19 p.
- 75045 A method of the asymmetric Abel's inversion in plasma diagnosis. (In Japanese).
- Matoba, Tohru; Funahashi, Akimasa.
- JAERI-M--6239. Sep 1975. 18 p.
- 75036 Effect of the finite size electrode on the beam divergence of an intense ion source for the thermonuclear fusion research.
- Matsuda, Shinzaburo.
- Jap. J. Appl. Phys. v. 13(10) p. 1630-1635. (1974).
- 75037 Effect of the conducting shell and its gap on generation of the vertical magnetic field in a tokamak device.
- Matsuda, Shinzaburo; Suzuki, Norio; Ohga, Tokumichi; Itoh, Satoshi.
- Jap. J. Appl. Phys. v. 13(10) p. 1604-1609. (1974).
- 75038 Conceptual design of the neutral beam injection system for the 2000MWt tokamak reactor. (In Japanese).
- Matsuda, Shinzaburo; Yamato, Harumi*.
- JAERI-M--6222. Aug 1975. 25 p.

- 75039 Magnetic island formation due to error field in the JFT-2 tokamak.
 - Matsuda, Shinzaburo; Yoshikawa, Masaji.
 - Jap. J. Appl. Phys. v. 14(1) p. 87-94. (1975).
- 75040 A study on deposition fractions of aerosol particles in horizontal straight pipes of different materials to be used for air sampling. (In Japanese).
 - Matsui, Hiroshi; Ohata, Tsutomu; Yoshida, Yoshikazu.
 - Hoken Butsuri. v. 9(3) p. 143-148. (1974).
- 75041 Calculation on the effects of a pinning on dislocation motion.
 - Mizubayashi, Hiroshi; Okuda, Shigeo.
 - Radiat. Eff. v. 21(3) p. 185-191. (1974).
- 75042 Strain relaxations due to self-interstitial atoms in molybdenum.
 - Mizubayashi, Hiroshi; Okuda, Shigeo.
 - Phys. Status Solidi (a). v. 29(1) p. K35-K38. (1975).
- 75043 Neutronic calculation on fusion reactor blanket by $S_{sub}(n)$ approximation. (In Japanese).
 - Moriyama, Masatoshi*; Seki, Yasushi; Maekawa, Hiroshi.
 - JAERI-M-6072. Mar 1975. 28 p.
- 75044 The behavior of a fusing neo-classical tokamak plasma. (In Japanese).
 - Nagami, Masayuki.
 - JAERI-M-6178. Jul 1975. 19 p.
- 75045 Poloidal magnetic configurations and plasma equilibrium. (In Japanese).
 - Ninomiya, Hiromasa; Suzuki, Yasuo; Kameari, Akihisa*.
 - JAERI-M-6025. Mar 1975. 17 p.
- 75046 Calculation code NIRVANA for free boundary MHD equilibrium. (In Japanese).
 - Ninomiya, Hiromasa; Suzuki, Yasuo; Kameari, Akihisa*.
 - JAERI-M-6026. Mar 1975. 26 p.
- 75047 Theory of laser interaction with plasma. (In Japanese).
 - Nishikawa, Kyoji*.
 - JAERI-M-6285. Oct 1975. 20 p.
- 75048 Thermophoretic deposition of aerosol particles in a heat-exchanger pipe.
 - Nishio, Gunji; Kitani, Susumu; Takehashi, Kazuhiro.
 - Ind. Eng. Chem., Process Des. Dev. v. 13(4) p. 408-415. (1974).
- 75049 Two-stage acceleration of an ion beam for powerful injectors.
 - Ohara, Yoshihiro; Sugawara, Tohru*.
 - JAERI-M-5929. Dec 1974. 20 p.
- 75050 An outline of the JFT-2a device. (In Japanese).
 - Ohtsuka, Hidewo; Tokutake, Toshikuni; Shimomura, Yasuo (eds.).
 - JAERI-M-6135. May 1975. 79 p.
- 75051 Equilibrium and localized flute instability of a tokamak with non-circular cross-section.
 - Okamoto, Masao; Wakatani, Masahiro; Amano, Tsuneo*.
 - Nucl. Fusion. v. 15(2) p. 225-236. (1975).
- 75052 Effect of pressure on the magnetic transition temperatures of nonstoichiometric iron chalcogenides. Proceedings of the 4. international conference on high pressure.
 - Ozawa, Kunio; Anzai, Shuichiro*.
 - 4. international conference on high pressure. Kyoto, Japan. 25 Nov 1974.
 - 1975. p. 281-286.
- 75053 Calculation of charge transfer cross sections in atomic collision by impact parameter representation. (In Japanese).
 - Ryufuku, Hiroshi.
 - JAERI-M-6274. Oct 1975. 50 p.
- 75054 Neutron spectroscopy on polyoxymethylene.
 - Sakamoto, Masanobu; Masaki, Norio; Motohashi, Haruhiko; Doi, Kenji; Kuriyama, Isamu; Yoda, Osamu; Tamura, Naoyuki; Odajima, Akira*.
 - JAERI-M-5933. Dec 1974. 7 p.
- 75055 Design study of a heat reservoir system for the tokamak reactor. (In Japanese).
 - Sako, Kiyoshi.
 - JAERI-M-6099. Apr 1975. 27 p.
- 75056 Evaluation of shielding design of super conducting magnet, (1). (In Japanese).
 - Seki, Yasushi.
 - JAERI-M-6046. Mar 1975. 23 p.
- 75057 The first results on JFT-2a.
 - Shimomura, Yasuo; Nagashima, Takashi; Kitsunozaki, Akio; Maeda, Hikosuke; Ohtsuka, Hidewo; Nagami, Masayuki; Tokutake, Toshikuni; Anno, Katsuto; Ohga, Tokumichi; Arai, Takashi.
 - JAERI-M-6102. Apr 1975. 49 p.
- 75058 Plasma confinement in a tokamak with noncircular cross-section. (In Japanese).

- Shimomura, Yasuo; Wakatani, Masahiro; Kitsunezaki, Akio; Maeda, Hikosuke; Tanaka, Masatoshi.
- JAERI-M-6105. Apr 1975. 40 p.
- 75059 Calculations on the projected range and its straggling for low energy(0.1-20 keV) light ions in the first wall materials. (In Japanese).
- Sone, Kazuho.
- JAERI-M-6293. Nov 1975. 42 p.
- 75060 Review of the works on plasma-wall interactions in fusion reactors, 1. Sputtering. (In Japanese).
- Sone, Kazuho.
- JAERI-M-6243. Sep 1975. 29 p.
- 75061 Calculations on displacement damage and its related parameters for heavy ion bombardment in reactor materials. (In Japanese).
- Sone, Kazuho; Shiraishi, Kensuke.
- JAERI-M-6094. Apr 1975. 39 p.
- 75062 Effect of molecular weight on the melting and crystallization behaviors of as-polymerized polytetrafluoroethylene.
- Suwa, Takeshi; Seguchi, Tadao; Takehisa, Masaaki; Machi, Sueo.
- Rep. Prog. Polym. Phys. Jap. v. 17 p. 213-216. (1974).
- 75063 Heat treatment and isothermal crystallization of as-polymerized polytetrafluoroethylene.
- Suwa, Takeshi; Takehisa, Masaaki; Machi, Sueo.
- Rep. Prog. Polym. Phys. Jap. v. 17 p. 217-220. (1974).
- 75064 Macroscopic cross sections for analyzing the transport of neutral particles in plasmas.
- Suzuki, Tadakazu; Taji, Yukichi; Nakahara, Yasuaki.
- JAERI-M-6119. May 1975. 21 p.
- 75065 Fundamental block-line diagrams for servo-control of the plasma positions and shape. (In Japanese).
- Suzuki, Yasuo; Ninomiya, Hiromasa; Kameari, Akihisa.
- JAERI-M-6050. Mar 1975. 24 p.
- 75066 Multi-channel neutral particle energy analyser for measuring ion temperatures in Tokamak plasmas. (In Japanese).
- Takeuchi, Hiroshi; Takahashi, Koki; Shirakata, Hirofumi; Funahashi, Akimasa.
- JAERI-M-6048. Mar 1975. 18 p.
- 75067 A binary collision model for plasma simulation with a particle code. (In Japanese).
- Takizuka, Tomonori.
- JAERI-M-6305. Nov 1975. 24 p.
- 75068 Effect of eddy currents in the toroidal field coils of a tokamak with an air-core transformer. (In Japanese).
- Tani, Keiji; Kobayashi, Tomofumi; Tamura, Sanae.
- JAERI-M-5999. Feb 1975. 28 p.
- 75069 Numerical method to obtain the optimum configuration of external magnetic field coils in a tokamak device by non-linear programming.
- Toi, Kazuo; Takeda, Tatsuoki.
- JAERI-M-6018. Feb 1975. 40 p.
- 75070 A trial of neutron diffraction topography. (In Japanese).
- Tomimitsu, Hiroshi.
- Nippon Kessho Gakkai-Shi. v. 15(5) p. 333-346. (1973).
- 75071 Decay of poloidal rotation in a tokamak plasma. (In Japanese).
- Tuda, Takasi.
- JAERI-M-5934. Dec 1974. 15 p.
- 75072 Effect of a radial electric field on the impurity transport. (In Japanese).
- Tuda, Takasi.
- JAERI-M-6096. Apr 1975. 11 p.
- 75073 Impurity transport in non-axisymmetric toroidal systems. (In Japanese).
- Tuda, Takasi.
- JAERI-M-6171. Jul 1975. 11 p.
- 75074 Ripple diffusion and decay of poloidal rotation in a tokamak plasma.
- Tuda, Takasi.
- Nucl. Fusion. v. 15(3) p. 541-542. (1975).
- 75075 Impurity drift instability of dissipative type. (In Japanese).
- Tuda, Takasi; Tanaka, Masatoshi.
- JAERI-M-6167. Jun 1975. 6 p.
- 75076 Impurity drift instability due to trapped ions.
- Tuda, Takasi; Tanaka, Masatoshi.
- J. Phys. Soc. Jap. v. 38(6) p. 1792. (1975).

- 75077 Pfirsch-Schluter diffusion of a plasma with multiple ion species.
 - Tuda, Takasi; Tanaka, Masatoshi.
 - J. Phys. Soc. Jap. v. 38(4) p. 1228. (1975).
- 75078 Diffusion in a tokamak with helical magnetic cells.
 - Wakatani, Masahiro.
 - JAERI-M-6124. May 1975. 14 p.
- 75079 Kink instabilities in a Tokamak of large betasub(p).
 - Wakatani, Masahiro.
 - J. Phys. Soc. Jap. v. 38(5) p. 1481-1487. (1975).
- 75080 Toroidal effects on vertical displacement of elliptic tokamak.
 - Wakatani, Masahiro.
 - J. Phys. Soc. Jap. v. 38(5) p. 1555. (1975).
- 75081 Trapping and confinement of a laser produced plasma in a combined mirror-multipole magnetic field.
 - Yatsu, Kiyoshi*; Ariga, Seiichi*; Matoba, Tohru.
 - Jap. J. Appl. Phys. v. 14(1) p. 163-164. (1975).

NEUTRON AND NUCLEAR PHYSICS

- 75082 Proceedings of the EANDC topical discussion on 'Critique of nuclear models and their validity in the evaluation of nuclear data'.
 - Fuketa, Toyojiro(ed.).
 - 17th meeting of the European-American nuclear data committee. Tokyo, Japan. 25 Mar 1974.
 - JAERI-M-5984. Feb 1975. 304 p.
- 75083 Number transmission of 0.6 and 0.8MeV electrons in elemental materials. (In Japanese).
 - Harami, Taikan*; Takagaki, Torao; Matsuda, Koji; Nakai, Yohta.
 - JAERI-5030. Mar 1975. p. 1-6.
- 75084 Treatment of the elastic removal cross sections in Na-Fe resonance region and one-dimensional code EXPANDA-7ODRA. (In Japanese).
 - Hasegawa, Akira; Tsuruta, Shin-ichiro*; Ishiguro, Yukio.
 - JAERI-M-6081. Mar 1975. 54 p.
- 75085 Nonstatistical behaviours of the level spacing distributions in neutron resonances.
 - Ideno, Kazumi.
 - J. Phys. Soc. Jap. v. 37(3) p. 581-590. (1974).
- 75086 Evaluation of ^{241}Am nuclear data. (In Japanese).
 - Igarasi, Sin-iti.
 - JAERI-M-6221. Aug 1975. 26 p.
- 75087 Modified methods of neutron cross-section calculations.
 - Igarasi, Sin-iti.
 - J. Nucl. Sci. Technol. (Tokyo). v. 12(2) p. 67-82. (1975).
- 75088 Japanese list of requests for neutron nuclear data measurements.
 - Japanese Nuclear Data Comm.
 - JAERI-M-5975. Jan 1975. 26 p.
- 75089 JNDC fission product group constants. Preliminary version. (In Japanese).
 - Kikuchi, Yasuyuki; Hasegawa, Akira; Tasaka, Kanji; Nishimura, Hideo; Otake, Iwao*; Katsuragi, Satoru.
 - JAERI-M-6001. Feb 1975. 80 p.
- 75090 Uranium-238 to uranium-235 fission-ratio distribution in spherical lithium-metal assemblies with and without a graphite reflector.
 - Maekawa, Hiroshi; Seki, Yasushi; Hiraoka, Toru; Moriyama, Masatoshi*.
 - Nucl. Sci. Eng. v. 57(4) p. 335-340. (1975).
- 75091 Electron beam dosimetry by the (γ , γ') reaction of indium and silver, 1. Detection of excitation spectra and investigation of its applicability to electron beam dosimetry. (In Japanese).
 - Matsuda, Koji; Harami, Taikan*; Takagaki, Torao; Nakai, Yohta.
 - JAERI-5030. Mar 1975. p. 11-15.
- 75092 Calibration of cascade impactor by two-stage method.
 - Ohata, Tsutomu; Matsui, Hiroshi; Murata, Mikio; Naritomi, Mitsuo; Ikezawa, Yoshio.
 - J. Nucl. Sci. Technol. (Tokyo). v. 11(11) p. 510-515. (1974).
- 75093 Multiple scattering of neutrons impinging on thick materials in the resonance energy region.
 - Ohkubo, Makio.
 - JAERI-M-6034. Mar 1975. 25 p.
- 75094 Energy dissipation of 0.6 and 0.8MeV electrons in elemental materials. (In Japanese).
 - Takagaki, Torao; Matsuda, Koji; Harami, Taikan*; Nakai, Yohta.
 - JAERI-5030. Mar 1975. p. 7-10.
- 75095 Calculation of the radionuclide yields in complex-decay, activation and fission in a

- given time (code CODAC). (Calculation of the released fission products for the assessment of a reactor accident). (In Japanese).
 - Takeda, Tsuneo.
 - JAERI-M--6148. May 1975. 48 p.
- 75096 Analysis of neutron cross sections using the coupled-channel theory.
 - Tanaka, Shigeya.
 - 17th meeting of the European-American nuclear data committee. Tokyo, Japan. 25 Mar 1974.
 - JAERI-M--5984. Feb 1975. p. 212-229.
- 75097 Calculation of the decay power of fission products considering neutron capture transformation. (In Japanese).
 - Tasaka, Kanji.
 - JAERI-M--5972. Feb 1975. 34 p.
- 75098 Nuclear data for calculation of the decay power of fission products. (In Japanese).
 - Tasaka, Kanji.
 - JAERI-M--5997. Feb 1975. 106 p.
- 75099 The level structure of ^{50}V and the 5.255 MeV isobaric analog resonance in ^{51}V studied by $^{50}\text{Ti}(p,n)$ and $(p,n\gamma)$ reactions.
 - Tomita, Yoshiaki; Tanaka, Shigeya.
 - Nucl. Phys., A. v. 232(2) p. 417-435. (1974).
- 75100 Compilation of ^{239}Pu resonance parameters.
 - Yoshida, Tadashi*.
 - JAERI-M--5979. Feb 1975. 74 p.

CHEMISTRY

- 75101 Separation of antimony-125 in fission products.
 - Akatsu, Eiko; Tomizawa, Toshi*; Aratono, Yasuyuki.
 - J. Nucl. Sci. Technol. (Tokyo). v. 11(12) p. 571-574. (1974).
- 75102 Preconcentration-gas chromatographic determination of impurities in helium. (In Japanese).
 - Aoyagi, Hisao; Takahashi, Masao.
 - Bunseki Kagaku. v. 24(2) p. 144-147. (1975).
- 75103 Effect of polymerization temperature on the original morphology of polyethylene prepared by gamma-ray-induced polymerization.
 - Arai, Hidehiko; Wada, Takeshi; Kuriyama, Isamu.
 - J. Polym. Sci., Polym. Phys. Ed. v. 12(12) p. 2423-2436. (1974).
- 75104 Determination of radiochemical purity of radiochromate solution by thin-layer chromatography. (In Japanese).
 - Ebihara, Hiroshi; Kamioki, Hiroshi.
 - Bunseki Kagaku. v. 24(1) p. 56-60. (1975).
- 75105 Electron spin resonance study on the structure of radical pairs in irradiated oriented polyethylene.
 - Fujimura, Takashi; Tamura, Naoyuki.
 - J. Phys. Chem. v. 79(17) p. 1859-1863. (1975).
- 75106 Diffusion and evaporation of fission products in coated fuel particles.
 - Fukuda, Kousaku; Iwamoto, Kazumi.
 - J. Nucl. Sci. Technol. (Tokyo). v. 12(3) p. 181-189. (1975).
- 75107 A dry method for separating xenon from its precursor fission-iodine. Measurements of the ^{135}I branching ratio and half-life of $\text{sup}(135\text{m})\text{Xe}$. (In Japanese).
 - Fukuda, Takeshi; Omori, Shunzo.
 - Nippon Genshiryoku Gakkai-Shi. v. 17(4) p. 177-185. (1975).
- 75108 Corrosion of AISI 316 and AISI 304 stainless steel with iodine vapour. (In Japanese).
 - Fukuda, Takeshi; Omori, Shunzo.
 - JAERI-M--5946. Jan 1975. 24 p.
- 75109 Isotopic analysis of uranium by optical spectral methods, 1. Determination of $^{235}\text{U}/^{238}\text{U}$ ratios using a hollow cathode discharge source. (In Japanese).
 - Fukushima, Hiroyuki; Nakajima, Tokunosuke.
 - Bunko Kenkyu. v. 24(3) p. 148-155. (1975).
- 75110 Radiation curing of mixture of diallylphthalate prepolymer and vinyl monomer, 10. Application of electron beam curing of low molecular weight diallylphthalate prepolymer/vinyl monomer mixtures to the preparation of American Hemlock-polymer composites piled board, (1) thermal curing. (In Japanese).
 - Gotoda, Masao; Harada, Osamu*; Yagi, Toshiaki; Yoshizawa, Iwao.
 - JAERI--5030. Mar 1975. p. 92-102.
- 75111 Radiation curing of mixtures of diallylphthalate prepolymer and vinyl monomer, 9. Fundamental examination of the application of low molecular weight diallylphthalate prepolymer. (In Japanese).
 - Gotoda, Masao; Kitada, Yoshinori*.
 - JAERI--5030. Mar 1975. p. 85-91.

- 75112 Radiation curing of epoxy-acrylate prepolymers and their mixtures with vinyl monomers, 4. Effects of addition of pigments to epoxy-acrylate/vinyl monomer mixtures upon the electron beam curing of their coatings on steel. (In Japanese).
- Gotoda, Masao; Miyashita, Yasuharu*; Mori, Kazutoshi*.
- JAERI—5030. Mar 1975. p. 136-142.
- 75113 Radiation curing of epoxy-acrylate prepolymers and their mixtures with vinyl monomers, 3. A survey on low vapour pressure vinyl monomers, suitable for use in electron beam curable coating compositions. (In Japanese).
- Gotoda, Masao; Miyashita, Yasuharu*; Takeyama, Kikuo*.
- JAERI—5030. Mar 1975. p. 125-135.
- 75114 Radiation curing of mixture of diallylphthalate prepolymer and vinyl monomer, 11. Application of electron beam curing of low molecular weight diallylphthalate prepolymer/vinyl monomer mixtures to the preparation of American Hemlock-Polymer composites piled board, (2) electron beam curing. (In Japanese).
- Gotoda, Masao; Okugawa, Hideo*; Yagi, Toshiaki; Yoshizawa, Iwao.
- JAERI—5030. Mar 1975. p. 103-113.
- 75115 Radiation curing of triallylisocyanurate prepolymer/vinyl monomer mixtures, 2. Studies on suitable compositions for electron beam curing and their application to coatings on wooden materials. (In Japanese).
- Gotoda, Masao; Okugawa, Hideo*; Yagi, Toshiaki.
- JAERI—5030. Mar 1975. p. 114-124.
- 75116 Calculation of the activation rate of a cylindrical sample irradiated by a cylindrical fast neutron source.
- Gotoh, Hiroshi; Yagi, Hideyuki.
- Nucl. Instrum. Methods. v. 116(2) p. 361-364. (1974).
- 75117 Extraction-photometric determination of aluminum in nickel- and iron-base high temperature alloys using oxine. (In Japanese).
- Hashitani, Hiroshi; Adachi, Takeo.
- Bunseki Kagaku. v. 24(1) p. 49-52. (1975).
- 75118 Spectrophotometric determination of trace niobium in tantalum with sulfochlorophenol S following anion-exchange separation. (In Japanese).
- Hashitani, Hiroshi; Adachi, Takeo.
- Bunseki Kagaku. v. 24(5) p. 303-307. (1975).
- 75119 Spectrophotometric determination of nitrogen in vanadium, titanium and uranium with thymol after alkali fusion.
- Hashitani, Hiroshi; Yoshida, Hideyo; Adachi, Takeo.
- Anal. Chim. Acta. v. 76(1) p. 85-90. (1975).
- 75120 Extraction-photometric determination of cobalt in high-temperature alloys and uranium with 1-nitroso-2naphthol. (In Japanese).
- Hashitani, Hiroshi; Yoshida, Hideyo; Adachi, Takeo.
- Bunseki Kagaku. v. 24(7) p. 452-454. (1975).
- 75121 The radiation-induced polymerization of octadecyl acrylate multilayers by electron beam irradiation.
- Hatada, Motoyoshi; Nishii, Masanobu; Hirota, Koza.
- JAERI—5030. Mar 1975. p. 26-32.
- 75122 Radiation-induced polymerization of octadecyl acrylate at a nitrogen-water interface under constant surface pressure conditions.
- Hatada, Motoyoshi; Nishii, Masanobu; Hirota, Koza.
- Macromolecules. v. 8(1) p. 19-22. (1975).
- 75123 Preparation of fluothane-⁸²Br by means of recoil labeling.
- Hoizumi, Kiyoshi; Mogi, Terutomi; Kudo, Hiroshi.
- J. Labelled Compd. v. 10(3) p. 437-449. (1974).
- 75124 Synthesis of carbon-14 labeled polychlorinated biphenyls.
- Hoizumi, Kiyoshi; Moriya, Takashi.
- J. Labelled Compd. v. 10(3) p. 499-508. (1974).
- 75125 Determination of carbon in amorphous carbon and uranium monocarbide by oxidation with lead(IV) oxide, copper(II) oxide or barium sulfate in an inert atmosphere. (In Japanese).
- Hoshino, Akira; Iso, Shuichi; Ito, Mitsuo.
- Bunseki Kagaku. v. 24(4) p. 231-234. (1975).
- 75126 Gel permeation chromatography of polyoxymethylene.
- Ishigaki, Isao; Morita, Yosuke; Nishimura, Koichi; Ito, Akihiko.
- J. Appl. Polym. Sci. v. 18(7) p. 1927-1942. (1974).
- 75127 Techniques for quality inspection of coated fuel particles.
- Iwamoto, Kazumi; Ikawa, Katsuichi.
- J. Nucl. Sci. Technol. (Tokyo). v. 12(7) p. 450-455. (1975).
- 75128 Calibration of a cylindrical ionization chamber used for ⁸⁵Kr monitoring. (In Japanese).
- Iwata, Yukio; Kishida, Masami; Oshino, Masao; Otsuka, Norikatsu.
- Hoken Buisuri. v. 8(3) p. 161-165. (1973).

- 75129 Radiation-induced graft copolymerization to polyester, 17. Grafting of polyethyleneglycol-dimethacrylates and -diacrylates onto polyethylene terephthalate fabric with electron beams. (In Japanese).
- Kaji, Kanako; Okada, Toshio; Sakurada, Ichiro.
- JAERI--5030. Mar 1975. p. 48-59.
- 75130 Optical and ESR studies in n-acetyl DL-methionine single crystals gamma-irradiated at low temperature.
- Kawatsura, Kiyoshi; Ozawa, Kunio; Kominami, Shiro*; Akasaka, Kazuyuki*; Hatano, Hiroyuki*.
- Radiat. Eff. v. 22(4) p. 267-275. (1974).
- 75131 Electron microscopy of fine holes in polyethyleneterephthalate films irradiated by fission fragments.
- Komaki, Yoshihide; Otsu, Hitoshi; Izui, Kazuhiko; Tsujimura, Shigeo.
- J. Appl. Phys. v. 46(3) p. 1155-1158. (1975).
- 75132 Growth of fine holes in polyethyleneterephthalate film irradiated by fission fragments.
- Komaki, Yoshihide; Tsujimura, Shigeo.
- J. Appl. Phys. v. 46(5) p. 2101-2102. (1975).
- 75133 A gas chromatographic study on the kinetics of uranium oxidation in moist environments.
- Kondo, Tatsuo; Beck, F.H.*; Fontana, M.G.*.
- Corrosion. v. 30(9) p. 330-339. (1974).
- 75134 Corrosion and fatigue of super alloys in simulated HTGR helium environment at very high temperatures. Corrosion problems in energy conversion and generation.
- Kondo, Tatsuo; Kikuyama, Toshihiko; Shindo, Masami.
- 146. national meeting of the Electrochemical Society. New York, USA. 13 Oct 1974.
- 1975. p. 163-178.
- 75135 Stress corrosion failure of stainless steel components in a BWR and effect of cyclic loading on the crack propagation. Corrosion problems in energy conversion and generation.
- Kondo, Tatsuo; Ogawa, Yutaka; Nakajima, Hajime.
- 146. national meeting of the Electrochemical Society. New York, USA. 13 Oct 1974.
- 1975. p. 346-358.
- 75136 Ion-exchange resin produced from radiation-polymerized polyethylene. (In Japanese).
- Machi, Sueo; Sugo, Takanobu; Miyake, Tetsuya*; Takeda, Kunihiko*; Yonemochi, Junzo*.
- JAERI-M--6244. Sep 1975. 43 p.
- 75137 Radiation-induced main-chain scission and dehydrofluorination of poly(vinylidene fluoride) in solution. (In Japanese).
- Makuuchi, Keizo; Asano, Masaharu; Abe, Toshihiko.
- Nippon Kagaku Kaishi. (no.4) p. 728-732. (1975).
- 75138 Radiation-induced crosslinking of poly(vinylidene fluoride) in the presence of polyfunctional monomers. (In Japanese).
- Makuuchi, Keizo; Yoshii, Fumio; Abe, Toshihiko.
- Nippon Kagaku Kaishi. (no.10) p. 1828-1833. (1975).
- 75139 Radiation-induced emulsion copolymerization of tetrafluoroethylene with propylene, 1.
- Matsuda, Osamu; Okamoto, Jiro; Suzuki, Nobutake; Ito, Masayuki; Tabata, Yoneho*.
- J. Macromol. Sci., Part A. v. 8(4) p. 775-791. (1974).
- 75140 Radiation-induced emulsion copolymerization of tetrafluoroethylene with propylene, 4. Effects of emulsifier concentration and dose rate.
- Matsuda, Osamu; Okamoto, Jiro; Suzuki, Nobutake; Ito, Masayuki; Danno, Akibumi.
- J. Polym. Sci., Polym. Chem. Ed. v. 12(9) p. 1871-1880. (1974).
- 75141 Electrical resistivity of uranium monosulfide from room temperature to 1500 deg C.
- Matsui, Hisayuki*; Kirihara, Tomoo*; Nasu, Shoichi.
- J. Nucl. Mater. v. 56(3) p. 362-364. (1975).
- 75142 Neutron irradiation effects in uranium dicarbides.
- Matsui, Hisayuki*; Takada, Takashi*; Kirihara, Tomoo*; Nasu, Shoichi.
- J. Nucl. Mater. v. 56(3) p. 275-278. (1975).
- 75143 Influence of differences in resin-matrix structure on ion-exchange adsorption of trace amounts of Ag(I), Co(II) and Cr(III).
- Matsuzuru, Hideo; Wadachi, Yoshiki.
- J. Nucl. Sci. Technol. (Tokyo). v. 12(6) p. 344-349. (1975).
- 75144 Effect of double bonds on the gamma-radiation-induced crosslinking of polyethylene.
- Mitsui, Hiroshi; Hosoi, Fumio; Ushirokawa, Masahiro*.
- J. Appl. Polym. Sci. v. 19(2) p. 361-369. (1975).
- 75145 Kinetic study on the radical addition of sodium hydrogensulfite to allyl alcohol.
- Miyata, Teijiro; Sakumoto, Akihisa; Washino, Masamitsu; Abe, Toshihiko.
- Chem. Lett. (Tokyo). (no.2) p. 181-184. (1975).
- 75146 Hydrogen isotope effect on radical addition reaction of sodium hydrogensulfite to allyl alcohol.

- Miyata, Teiji; Sakumoto, Akihisa; Washino, Masamitsu; Abe, Toshihiko.
- Chem. Lett. (Tokyo). (no.4) p. 367-370. (1975).
- 75147 Incorporation of radioactive spent ion exchange resins in plastics.
- Moriyama, Noboru; Dojiri, Shigeru; Emura, Satoru; Sugo, Takanobu; Machi, Sueo.
- J. Nucl. Sci. Technol. (Tokyo). v. 12(6) p. 362-369. (1975).
- 75148 Carburization of hastelloy alloy X.
- Muraoka, Susumu; Itami, Hiroharu; Nomura, Sueo.
- J. Nucl. Mater. v. 58(1) p. 18-24. (1975).
- 75149 ESR study on radiation-induced radicals in stearic acid and its related compounds adsorbed on interlamellar surfaces of montmorillonite.
- Nagai, Siro.
- Chem. Phys. v. 8(1-2) p. 178-184. (1975).
- 75150 Radiation chemical reaction of methyl esters of carboxylic acids having long aliphatic chain. (In Japanese).
- Nagai, Siro; Sugimoto, Shun-ichi; Hatada, Motoyoshi.
- JAERI-5030. Mar 1975. p. 38-42.
- 75151 Optical emission from CO-H₂ mixture excited by high energy electrons, 1. Behaviors of C₂(A→X) in CO and CO-H₂ mixture under electron irradiation. (In Japanese).
- Nakai, Yohta; Matsuda, Koji; Takagaki, Torao; Harami, Taikan*.
- JAERI-5030. Mar 1975. p. 16-21.
- 75152 Environment-enhanced crack propagation of sensitized type 304 stainless steel in simulated BWR environment. Combined effect of stress corrosion cracking and corrosion fatigue under cyclic loading. (In Japanese).
- Nakajima, Hajime; Kikuyama, Toshihiko; Shindo, Masami; Suzuki, Tomio; Kikuchi, Masahiko; Ogawa, Yutaka; Makino, Yukiharu; Kondo, Tatsuo.
- JAERI-M-6100. Apr 1975. 16 p.
- 75153 Simultaneous stabilization-polymerization of tetraoxane, 2. (Polymerization in the presence of an acid anhydride). (In Japanese).
- Nakase, Yoshiaki; Yoshida, Masaru; Ito, Akihiko.
- JAERI-M-6083. Mar 1975. 34 p.
- 75154 Proton channeling in uranium mononitride.
- Nasu, Shoichi; Kurasawa, Toshiaki; Ozawa, Kunio; Shiozawa, Kenichi; Kawatsura, Kiyoshi; Komaki, Kenichiro*; Takada, Takashi*.
- J. Nucl. Mater. v. 54(1) p. 143-145. (1974).
- 75155 Polymerization of vinyl stearate multilayers by electron beam irradiation. (In Japanese).
- Nishii, Masanobu; Hatada, Motoyoshi.
- JAERI-5030. Mar 1975. p. 33-37.
- 75156 Low-level radon measurements with alpha-beta coincidence methods. (In Japanese).
- Noguchi, Masayasu; Wakita, Hiroshi*.
- Oyo Butsuri. v. 44(9) p. 979-983. (1975).
- 75157 Calculation of the ionization yield in He by incident Ar⁺ and H⁺ ions with the initial energies of 1 and 0.1 MeV.
- Ohno, Shin-ichi.
- Bull. Chem. Soc. Jap. v. 48(7) p. 2229-2230. (1975).
- 75158 The calculation of the primary radiolysis yield of water vapor irradiated by 10-keV electrons.
- Ohno, Shin-ichi; Nagayama, Hisashi; Okazaki, Kiyoshi*; Sato, Shin*.
- Bull. Chem. Soc. Jap. v. 48(7) p. 2153-2157. (1975).
- 75159 Normal coordinate analysis of dicaesium uranyl tetrachloride (Cs₂UO₂Cl₄).
- Ohwada, Ken.
- Spectrochim. Acta, Part A. v. 31(7) p. 973-977. (1975).
- 75160 Infrared analysis of hydrogen fluoride in uranium hexafluoride. (In Japanese).
- Ohwada, Ken; Soga, Takeshi; Iwasaki, Matae; Tsujimura, Shigeo.
- Nippon Genshiryoku Gakkai-Shi. v. 17(2) p. 77-80. (1975).
- 75161 Rapid assessment of thermal neutron activation in consideration of time after irradiation.
- Okada, Minoru.
- J. Radioanal. Chem. v. 26 p. 215-219. (1975).
- 75162 Radiation-induced polymerization of polyethyleneglycol dimethacrylates with electron beams. (In Japanese).
- Okada, Toshio; Kaji, Kanako.
- JAERI-5030. Mar 1975. p. 77-84.
- 75163 Radiation-induced graft copolymerization to polyester, 18. Properties of acrylic acid- and methacrylic acid-graft polyethylene terephthalate fibers. (In Japanese).
- Okada, Toshio; Shimano, Yasunao*; Kaji, Kanako; Sakurada, Ichiro.
- JAERI-5030. Mar 1975. p. 60-68.
- 75164 The contribution of the double collision occurring in an atom to the yield of the

- ionization and excitations of noble gases irradiated by 100 keV electrons.
 - Okazaki, Kiyoshi*; Sato, Shin*; Ohno, Shin-ichi.
 - Bull. Chem. Soc. Jap. v. 48(5) p. 1411-1416. (1975).
- 75165 Fundamental studies in Osaka Laboratory for Radiation Chemistry, no. 7. Annual report: April 1, 1973 - March 31, 1974. (In Japanese).
 - Osaka Lab. for Radiation Chemistry.
 - JAERI-5030. Mar 1975. 152 p.
- 75166 A qualitative investigation of the kinetic spectra of recoil bromines from the three nuclear transformations, $^{79}\text{Br}(n,\gamma)^{80}\text{Br}$, $\text{sup}(82\text{m})\text{Br}(\text{I.T.})^{82}\text{Br}$ and $\text{sup}(80\text{m})\text{Br}(\text{I.T.})^{80}\text{Br}$.
 - Saeki, Masakatsu; Tachikawa, Enzo.
 - Radiochim. Acta. v. 20(1-2) p. 27-32. (1973).
- 75167 Kinetics on the sulfonation reaction of 1-dodecene with sodium hydrogensulfite.
 - Sakumoto, Akihisa; Miyata, Tejiro; Washino, Masamitsu.
 - Chem. Lett. (Tokyo). (no.6) p. 563-566. (1975).
- 75168 Radiation-induced graft copolymerization to polyester, 19. Resistivity of polyethylene terephthalate fibers grafted with hydrophilic monomers to alkaline media. (In Japanese).
 - Sakurada, Ichiro; Okada, Toshio; Kaji, Kanako; Tsuchiya, Akiko.
 - JAERI-5030. Mar 1975. p. 69-76.
- 75169 Fluorination of uranium dioxide by bromine-fluorine system.
 - Sakurai, Tsutomu; Takahashi, Akira.
 - J. Nucl. Sci. Technol. (Tokyo). v. 12(5) p. 308-313. (1975).
- 75170 Gamma-ray energy release in the decay of fission products.
 - Sasamoto, Nobuo; Nemoto, Takashi*.
 - Nucl. Eng. Des. v. 32(2) p. 252-276. (1975).
- 75171 Thermal analysis of graft polyethylene. (In Japanese).
 - Sasuga, Tsuneo; Araki, Kunio; Kuriyama, Isamu.
 - Kobunshi Ronbunshu. v. 32(2) p. 83-90. (1975).
- 75172 Viscoelastic properties of low molecular weight sintered polytetrafluoroethylene.
 - Sasuga, Tsuneo; Takehisa, Masaaki.
 - J. Polym. Sci., Polym. Phys. Ed. v. 12(12) p. 2577-2578. (1974).
- 75173 A new class of thermochemical hydrogen production processes.
 - Sato, Shoichi; Nakajima, Hayato.
 - J. Nucl. Sci. Technol. (Tokyo). v. 12(10) p. 659-660. (1975).
- 75174 Studies on closed-cycle processes for hydrogen production, 1. Progress report for the F.Y. 1974. (In Japanese).
 - Sato, Shoichi; Nakajima, Hayato; Ikezoe, Yasumasa; Kobayashi, Toshiaki; Shimizu, Saburo.
 - JAERI-M-6139. May 1975. 35 p.
- 75175 Morphology of polytetrafluoroethylene prepared by radiation-induced emulsion polymerization.
 - Seguchi, Tadao; Suwa, Takeshi; Tamura, Naoyuki; Takehisa, Masaaki.
 - J. Polym. Sci., Polym. Phys. Ed. v. 12(12) p. 2567-2576. (1974).
- 75176 Electron spin resonance studies on radiation graft copolymerization, 1. Grafting initiated by alkyl radicals trapped in irradiated polyethylene.
 - Seguchi, Tadao; Tamura, Naoyuki.
 - J. Polym. Sci., Polym. Chem. Ed. v. 12(8) p. 1671-1682. (1974).
- 75177 Electron spin resonance studies on radiation graft copolymerization in polyethylene, 2. Grafting initiated by allyl radicals trapped in irradiated polyethylene.
 - Seguchi, Tadao; Tamura, Naoyuki.
 - J. Polym. Sci., Polym. Chem. Ed. v. 12(9) p. 1953-1964. (1974).
- 75178 Froth flotation separation of small amounts of thorium by means of arsenazo III and zephiramine.
 - Sekine, Keiichi.
 - Z. Anal. Chem. v. 273(2) p. 103-107. (1975).
- 75179 A method of computer analysis of a $\text{NaI}(\text{Tl})$ gamma-ray spectrum.
 - Sekine, Toshiaki; Baba, Hiroshi.
 - Nucl. Instrum. Methods. v. 127(2) p. 261-263. (1975).
- 75180 Radiation-induced emulsion polymerization of ethylene, 6. Continuous flow system.
 - Senrui, Shiro*; Kodama, Atsuro*; Takehisa, Masaaki.
 - J. Polym. Sci., Polym. Chem. Ed. v. 12(10) p. 2403-2417. (1974).
- 75181 Fission iodine and xenon release from the $\text{UO}_2\text{-U}_3\text{O}_8$ system with emphasis on radiation damage.
 - Shiba, Koreyuki.
 - J. Nucl. Mater. v. 57(3) p. 271-279. (1975).
- 75182 Radiation synthesis of ethylamine from ethane-ammonia systems. Effect of nitric oxide addition.
 - Shimizu, Saburo; Ikezoe, Yasumasa; Sato, Shoichi.
 - Bull. Chem. Soc. Jap. v. 48(3) p. 1003-1005. (1975).

- 75183 Graft polymerization of emulsified styrene onto pre-irradiated polyethylene. (In Japanese).
- Shimizu, Yuichi; Harada, Masato; Sasaki, Takashi; Araki, Kunio.
- Kobunshi Ronbunshu. v. 32(3) p. 168-172. (1975).
- 75184 Normal coordinate analysis of potassium and rubidium fluoaluminates.
- Soga, Takeshi; Ohwada, Ken; Iwasaki, Matae.
- J. Chem. Phys. v. 61(5) p. 1990-1995. (1974).
- 75185 Radiation-induced polymerization of 2-hydroxyethyl acrylate adsorbed on Na montmorillonite. (In Japanese).
- Sugimoto, Shun-ichi; Ohnishi, Shun-ichi; Nitta, Isamu.
- JAERI-5030. Mar 1975. p. 43-47.
- 75186 Dissociative resonance electron capture in methylmercaptane and methylmercaptane-d₃. (In Japanese).
- Sugiura, Toshio; Arakawa, Kazuo.
- JAERI-5030. Mar 1975. p. 22-25.
- 75187 Preparation of emulsifier-free polyethylene latices by radiation polymerization.
- Suwa, Takeshi; Nakajima, Hayato; Takehisa, Masaaki; Machi, Sueo.
- J. Polym. Sci., Polym. Lett. Ed. v. 13(6) p. 369-375. (1975).
- 75188 Radiation-induced emulsion polymerization of tetrafluoroethylene.
- Suwa, Takeshi; Takehisa, Masaaki; Machi, Sueo.
- J. Appl. Polym. Sci. v. 18(8) p. 2249-2259. (1974).
- 75189 Radiation-induced emulsion copolymerization of tetrafluoroethylene with propylene, 5. Formation of acid and its effect.
- Suzuki, Nobutake; Matsuda, Osamu; Okamoto, Jiro.
- J. Appl. Polym. Sci. v. 18(8) p. 2457-2464. (1974).
- 75190 Radiation-induced emulsion copolymerization of tetrafluoroethylene with propylene, 2. Formulas and conditions.
- Suzuki, Nobutake; Matsuda, Osamu; Okamoto, Jiro.
- J. Macromol. Sci., Part A. v. 8(4) p. 793-804. (1974).
- 75191 Radiation-induced emulsion copolymerization of tetrafluoroethylene with propylene, 3. Polymerization mechanism.
- Suzuki, Nobutake; Matsuda, Osamu; Okamoto, Jiro.
- J. Polym. Sci., Polym. Chem. Ed. v. 12(9) p. 2045-2052. (1974).
- 75192 The radiation-induced decoloration of azo dye in aqueous solutions.
- Suzuki, Nobutake; Nagai, Takeshi; Hotta, Hiroshi; Washino, Masamitsu.
- Bull. Chem. Soc. Jap. v. 48(7) p. 2158-2163. (1975).
- 75193 Effects of additives on the radiation-induced emulsion copolymerization of tetrafluoroethylene with propylene.
- Suzuki, Nobutake; Okamoto, Jiro.
- J. Polym. Sci., Polym. Chem. Ed. v. 12(11) p. 2693-2696. (1974).
- 75194 Radiation-induced emulsion copolymerization of tetrafluoroethylene with propylene. The behavior of the HF formed.
- Suzuki, Nobutake; Okamoto, Jiro.
- J. Macromol. Sci., Part A. v. 9(2) p. 285-297. (1975).
- 75195 The reaction of recoil tritium atoms with water, 2. Reactivity integral- and moderator-isotope effects in H₂O-D₂O binary mixtures.
- Tachikawa, Enzo; Aratono, Yasuyuki.
- Bull. Chem. Soc. Jap. v. 48(7) p. 2182-2184. (1975).
- 75196 Isotope effects in the reactions of ⁸⁰Br activated by isomeric transition with various deuterated propanes.
- Tachikawa, Enzo; Numakura, Kenshi.
- Bull. Chem. Soc. Jap. v. 47(11) p. 2749-2753. (1974).
- 75197 Preliminary study on production of Xenon-133 from neutron-irradiated uranium metal and oxides by oxidation.
- Tachimori, Syoichi; Amano, Hiroshi.
- J. Nucl. Sci. Technol. (Tokyo). v. 11(11) p. 488-494. (1974).
- 75198 The reaction of uranium tetrafluoride with uranium mononitride.
- Tagawa, Hiroaki.
- J. Inorg. Nucl. Chem. v. 37(3) p. 731-733. (1975).
- 75199 Phase relations, crystal structures and physical properties of nuclear fuels. (In Japanese).
- Tagawa, Hiroaki; Fujino, Takeo; Tateno, Jun.
- JAERI-H-6180. Jul 1975. 79 p.
- 75200 Effect of high pressure on radiation-induced crosslinking of synthetic rubbers. Proceedings of the 4. international conference on high pressure.
- Takehisa, Masaaki; Sasuga, Tsuneo.
- 4. international conference on high pressure. Kyoto, Japan. 25 Nov 1974.
- 1975. p. 85-90.

- 75201 Isotopic analysis of molybdenum by surface ionization mass spectrometry and a carbonization technique.
- Tamura, Shuzo.
- Shitsuryo Bunseki. v. 23(1) p. 49-59. (1975).
- 75202 Spectrophotometric determination of iron in nickel-base alloys with 1,10-phenanthroline or bathophenanthroline. (In Japanese).
- Toita, Yukio; Onishi, Hiroshi.
- Bunseki Kagaku. v. 24(3) p. 201-203. (1975).
- 75203 Radiation effects on trisiloxanes. Effect of phenyl group on gas evolution and polymerization. (In Japanese).
- Tokunaga, Okihiro; Abe, Toshihiko.
- Nippon Kagaku Kaishi. (no.2) p. 228-233. (1975).
- 75204 X-ray topographic observation of surface damages in ion-irradiated ionic crystals.
- Tomimitsu, Hiroshi; Ozawa, Kunio; Doi, Kenji.
- J. Phys. Soc. Jap. v. 38(3) p. 905. (1975).
- 75205 Analysis of heavy water concentrations by fast neutrons. (In Japanese).
- Tone, Hirohito.
- Shitsuryo Bunseki. v. 23(1) p. 79-85. (1975).
- 75206 Recovery, purification and concentration of plutonium and americium from the aqueous wastes discharged in the reprocessing process studies. Technical report. (In Japanese).
- Tsujino, Takeshi; Hoshino, Tadayasu; Yasu, Syozo; Kawashima, Yukichi.
- JAERI-M-6106. Apr 1975. 31 p.
- 75207 Calculation code; REPROSY-P for process studies on Pu purification with TBP.
- Tsujino, Takeshi; Kohsaka, Atsuo; Aochi, Tetsuo.
- JAERI-M-6284. Oct 1975. 33 p.
- 75208 Crosslinking of polyvinyl alcohol film by irradiation. (In Japanese).
- Tsukamoto, Yoshinori; Yamaguchi, Kouichi; Machi, Sueo.
- JAERI-M-6068. Mar 1975. 16 p.
- 75209 Solubility and absorption spectra of a carbonate complex of pentavalent neptunium.
- Ueno, Kaoru; Saito, Akira.
- Radiochem. Radioanal. Lett. v. 22(2) p. 127-133. (1975).
- 75210 Separation of transplutonium elements from neutron irradiated americium-241, (2). Detection of berkelium and californium.
- Ueno, Kaoru; Watanabe, Kenju; Sagawa, Chiaki; Ishimori, Tomitaro.
- J. Nucl. Sci. Technol. (Tokyo). v. 12(6) p. 356-361. (1975).
- 75211 Thermodynamic activity of carbon in molybdenum-containing uranium carbide.
- Ugajin, Mitsuhiro.
- J. Nucl. Sci. Technol. (Tokyo). v. 12(6) p. 381-384. (1975).
- 75212 Phase behavior and thermodynamics of U-Mo-C system.
- Ugajin, Mitsuhiro; Abe, Jiro; Kurihara, Masayoshi.
- J. Nucl. Sci. Technol. (Tokyo). v. 12(9) p. 560-566. (1975).
- 75213 Measurement of moisture and hydrogen contents by intermediate neutron moderation.
- Wada, Nobuo.
- J. Radioanal. Chem. v. 23(1-2) p. 147-158. (1974).
- 75214 Radiation-induced heterogeneous polymerization of methyl methacrylate in precipitants.
- Wada, Takeshi; Takehisa, Masaaki; Machi, Sueo.
- J. Polym. Sci., Polym. Chem. Ed. v. 12(8) p. 1629-1646. (1974).
- 75215 Effect of temperature on the radiation-induced polymerization of ethylene in various media.
- Wada, Takeshi; Watanabe, Terutaka; Takehisa, Masaaki; Machi, Sueo.
- J. Polym. Sci., Polym. Chem. Ed. v. 12(8) p. 1585-1608. (1974).
- 75216 Radiation-induced homogeneous polymerization of ethylene in cyclohexane.
- Watanabe, Terutaka; Wada, Takeshi; Takehisa, Masaaki; Machi, Sueo.
- J. Polym. Sci., Polym. Chem. Ed. v. 12(8) p. 1609-1618. (1974).
- 75217 A novel scheme of heterogeneous polymerization of ethylene.
- Watanabe, Terutaka; Wada, Takeshi; Takehisa, Masaaki; Machi, Sueo.
- J. Polym. Sci., Polym. Chem. Ed. v. 12(8) p. 1619-1628. (1974).
- 75218 Role of chain transfer in heterogeneous polymerization of ethylene.
- Watanabe, Terutaka; Wada, Takeshi; Takehisa, Masaaki; Machi, Sueo.
- J. Polym. Sci., Polym. Chem. Ed. v. 12(9) p. 2027-2033. (1974).
- 75219 Physical state of radiation-induced polymerized polyethylene blends.
- Yamaguchi, Kouichi; Yagi, Toshiaki; Machi, Sueo; Takehisa, Masaaki.
- Rep. Prog. Polym. Phys. Jap. v. 17 p. 473-476. (1974).
- 75220 Physical state of radiation-polymerized polyethylene blends.
- Yamaguchi, Kouichi; Yagi, Toshiaki; Machi, Sueo; Takehisa, Masaaki.
- J. Appl. Polym. Sci. v. 19(7) p. 1959-1969. (1975).

- 75221 Spectrophotometric determination of plutonium with chlorophosphonazo III.
 - Yamamoto, Tadashi.
 - Mikrochim. Acta. (no.5) p. 871-877. (1974).
- 75222 Study on the immobilization of alpha-amylase by radiation-induced polymerization at low-temperature, (1). Radiation effect on alpha-amylase. (In Japanese).
 - Yoshida, Masaru; Kumakura, Minoru; Kaetsu, Isao.
 - JAERI-M-6183. Jul 1975. 12 p.
- 75223 Study on the immobilization of alpha-amylase by radiation-induced polymerization at low-temperature, (2). Immobilization of low-concentration alpha-amylase by the polymerization with 2-hydroxyethylmethacrylate. (In Japanese).
 - Yoshida, Masaru; Kumakura, Minoru; Kaetsu, Isao.
 - JAERI-M-6189. Jul 1975. 16 p.
- 75224 Study on the immobilization of alpha-amylase by radiation-induced polymerization at low-temperature, (3). Immobilization high-concentration alpha-amylase by the polymerization with 2-hydroxyethylmethacrylate. (In Japanese).
 - Yoshida, Masaru; Kumakura, Minoru; Kaetsu, Isao.
 - JAERI-M-6190. Jul 1975. 13 p.
- 75225 Study on the immobilization of alpha-amylase by radiation-induced polymerization at low-temperature, (4). Immobilization of alpha-amylase by the polymerization with 2-hydroxyethylmethacrylate in the presence of an adsorbent. (In Japanese).
 - Yoshida, Masaru; Kumakura, Minoru; Kaetsu, Isao.
 - JAERI-M-6191. Jul 1975. 13 p.
- 75226 Determination of chlorine in zirconium and zircaloy by distillation-potentiometric titration method. (In Japanese).
 - Yoshida, Zenko; Takahashi, Masao.
 - Bunseki Kagaku. v. 23(11) p. 1406-1409. (1974).
- 75227 Radiation-induced polymerization of acrylonitrile in urea canal complex as studied by broad line NMR. (In Japanese).
 - Yoshii, Fumio; Abe, Toshihiko; Hayakawa, Naohiro; Tamura, Naoyuki.
 - Kobunshi Ronbunshu. v. 32(7) p. 406-410. (1975).
- 75228 Radiation-induced polymerization of vinyl chloride in urea canal complex as studied by broad line NMR. (In Japanese).
 - Yoshii, Fumio; Abe, Toshihiko; Hayakawa, Naohiro.
 - Kobunshi Ronbunshu. v. 32(7) p. 429-432. (1975).
- 75229 Radiation-induced in-source polymerization of acrylonitrile in urea canal complex. (In Japanese).
 - Yoshii, Fumio; Abe, Toshihiko; Kobayashi, Yasushi.
 - Kobunshi Ronbunshu. v. 32(8) p. 477-483. (1975).
- 75230 Radiation-induced post polymerization of acrylonitrile in urea canal complex. (In Japanese).
 - Yoshii, Fumio; Abe, Toshihiko; Yoda, Osamu.
 - Kobunshi Ronbunshu. v. 32(7) p. 399-405. (1975).

MATERIALS

- 75231 Inverse magnetostrictive sensitivity of martensitic stainless steel AISI-410 and its application to pressure measurements.
 - Ara, Katsuyuki; Brakas, M.J.*.
 - IEEE Trans. Magn. v. 11(5) p. 1352-1354. (1975).
- 75232 Analytical study of mechanical stresses of graphite structures with attention to anisotropic properties. (In Japanese).
 - Arai, Taketoshi; Satoh, Sadao.
 - JAERI-M-5998. Feb 1975. 32 p.
- 75233 Surveillance test of the JMTR core components. The results of post-irradiation examination. (In Japanese).
 - Div. of JMTR Project.
 - JAERI-M-5936. Dec 1974. 37 p.
- 75234 The residual strain of polycrystalline graphite, 2. Relationship between the strain and the energy dissipated during compression tests.
 - Eto, Motokuni.
 - J. Nucl. Mater. v. 57(2) p. 205-211. (1975).
- 75235 Change in electrical resistivity of nuclear graphite during compression tests and a model for its deformation and fracture mechanism.
 - Eto, Motokuni; Oku, Tatsuo.
 - J. Nucl. Mater. v. 54(2) p. 245-253. (1974).
- 75236 The residual strain of polycrystalline graphite, (1). Its stress dependence and the irradiation effect.
 - Eto, Motokuni; Oku, Tatsuo.
 - J. Nucl. Mater. v. 57(2) p. 198-204. (1975).

- 75237 Experimental study on sodium pool boiling. Measurement of superheat at boiling incipience and heat transfer.
 - Fujishiro, Toshio; Sanokawa, Konomo; Torikai, Kinichi; Ouchi, Mitsuo.
 - Bull. JSME (Jap. Soc. Mech. Eng.). v. 18(118) p. 405-410. (1975).
- 75238 Microstructure of vapor-deposited ZrC-C alloy.
 - Fukuda, Kosaku; Ikawa, Katsuichi; Kobayashi, Fumiaki; Iwamoto, Kazumi.
 - J. Nucl. Mater. v. 56(2) p. 243-245. (1975).
- 75239 Properties of SiC and problems of the material for use as the coating layer of fuel particles. (In Japanese).
 - Fukuda, Kosaku; Iwamoto, Kazumi.
 - JAERI-M-6311. Nov 1975. 117 p.
- 75240 Effect of oxygen content and distribution on embrittlement of the zircaloy cladding. (In Japanese).
 - Furuta, Teruo; Hashimoto, Masao; Kawasaki, Satoru.
 - JAERI-M-6182. Jul 1975. 20 p.
- 75241 Effect of hydrostatic pressure on the phase transitions in ferroelectric $\text{Ca}_2\text{Sr}(\text{C}_2\text{H}_5\text{COO})_6$ and $\text{Ca}_2\text{Pb}(\text{C}_2\text{H}_5\text{COO})_6$.
 - Gesi, Kazuo; Ozawa, Kunio.
 - J. Phys. Soc. Jap. v. 39(4) p. 1026-1031. (1975).
- 75242 Re-irradiation effect on nucleation of voids in stainless steel.
 - Hishinuma, Akimichi; Katano, Yoshio; Fukaya, Kiyoshi; Shiraishi, Kensuke.
 - J. Nucl. Mater. v. 55(2) p. 227-228. (1975).
- 75243 Channelling of H^+ and He^+ ions in pyrolytic graphite.
 - Iwata, Tadao; Komaki, Ken-ichiro; Tomimitsu, Hiroshi; Kawatsura, Kiyoshi; Ozawa, Kunio; Doi, Kenji.
 - Radiat. Eff. v. 24(1) p. 63-64. (1975).
- 75244 Experimental studies on heat transfer by natural convection and pool boiling of sodium in a strong magnetic field.
 - Kawamura, Hiroshi; Seki, Masahiro; Shiina, Yasuaki; Sanokawa, Konomo.
 - J. Nucl. Sci. Technol. (Tokyo). v. 12(5) p. 280-286. (1975).
- 75245 Zircaloy-steam reaction under a simulated loss-of-coolant accident. (In Japanese).
 - Kawasaki, Satoru; Furuta, Teruo; Hashimoto, Masao.
 - JAERI-M-6181. Jul 1975. 14 p.
- 75246 Effect of condition of recrystallization heat treatment on high-temperature mechanical properties of an irradiated AISI 316 austenitic steel.
 - Kawasaki, Satoru; Hishinuma, Akimichi.
 - J. Nucl. Sci. Technol. (Tokyo). v. 11(11) p. 505-509. (1974).
- 75247 Autoradiograms of ^{90}Sr diffused into various graphites. (In Japanese).
 - Kikuchi, Teruo; Iwamoto, Kazumi.
 - Radioisotopes (Tokyo). v. 23(9) p. 526-528. (1974).
- 75248 Dependence of strontium diffusion in graphite on diffusant concentration.
 - Kikuchi, Teruo; Iwamoto, Kazumi.
 - J. Nucl. Sci. Technol. (Tokyo). v. 12(8) p. 523-525. (1975).
- 75249 Diffusion of alkali and alkali earth metals in various graphites. (In Japanese).
 - Kikuchi, Teruo; Iwamoto, Kazumi.
 - JAERI-M-5927. Dec 1974. 22 p.
- 75250 The measurement of gas permeability in various graphites. (In Japanese).
 - Kikuchi, Teruo; Iwamoto, Kazumi.
 - JAERI-M-5937. Dec 1974. 30 p.
- 75251 Formation of carbon-excess SiC from pyrolysis of CH_3SiCl_3 .
 - Kobayashi, Fumiaki; Ikawa, Katsuichi; Iwamoto, Kazumi.
 - J. Cryst. Growth. v. 28(3) p. 395-396. (1975).
- 75252 Preparation of uranium and plutonium metals.
 - Kobayashi, Yoshii; Saito, Akira.
 - J. Nucl. Sci. Technol. (Tokyo). v. 12(8) p. 508-511. (1975).
- 75253 Recovery of c-axis spacing in pyrolytic graphite after neutron irradiation at 5 K.
 - Maeta, Hiroshi; Iwata, Tadao; Okuda, Shigeo.
 - Phys. Lett., A. v. 53(4) p. 295-296. (1975).
- 75254 Diffraction study of $\alpha\text{U}_2\text{N}_{3+x}$.
 - Masaki, Norio; Tagawa, Hiroaki.
 - J. Nucl. Mater. v. 57(2) p. 187-192. (1975).
- 75255 Flow resistance and electric oscillations in the flux-flow state of Nb-25 at.% Zr wires.
 - Matsunaga, Sakuro.
 - J. Appl. Phys. v. 45(12) p. 5422-5431. (1974).
- 75256 Compatibility of heat resistant materials for HTGR, 1. Adhesion test. (In Japanese).
 - Muraoka, Susumu; Itami, Hiroharu; Nomura, Sueo.

- JAERI-M-6088. Mar 1975. 22 p.
- 75257 Growth of niobium single crystals by pulling from a melt on a pedestal, 2. Growth of dislocation-free crystals.
 - Naramoto, Hiroshi; Kamada, Koji.
 - J. Cryst. Growth. v. 30(2) p. 145-150. (1975).
- 75258 Thermal resistivity changes in electron-irradiated pyrolytic graphite.
 - Nihira, Takeshi*; Iwata, Tadao.
 - Jap. J. Appl. Phys. v. 14(8) p. 1099-1104. (1975).
- 75259 Correlation between the strength and vickers hardness of some nuclear graphites.
 - Oku, Tatsuo; Eto, Motokuni.
 - Carbon. v. 12(4) p. 477-479. (1974).
- 75260 Free migration of interstitials in tungsten.
 - Okuda, Shigeo; Mizubayashi, Hiroshi.
 - Phys. Rev. Lett. v. 34(13) p. 815-817. (1975).
- 75261 Anomalous modulus change in gamma-irradiated copper single crystals.
 - Okuda, Shigeo; Mizubayashi, Hiroshi.
 - Radiat. Eff. v. 25(1) p. 57-59. (1975).
- 75262 Pyroelectricity of dicalcium lead propionate associated with its phase transitions.
 - Osaka, Tosio*; Makita, Yasuharu*; Gesi, Kazuo.
 - J. Phys. Soc. Jap. v. 38(1) p. 292. (1975).
- 75263 Dynamic viscoelastic properties of unsintered polytetrafluoroethylene.
 - Sasuga, Tsuneo; Takehisa, Masaaki.
 - J. Polym. Sci., Polym. Phys. Ed. v. 12(9) p. 1889-1898. (1974).
- 75264 Low cycle fatigue strength of some austenitic stainless steels at room temperature and elevated temperature. (In Japanese).
 - Shibata, Katsuyuki; Kawamura, Takaichi.
 - JAERI-1237. Mar 1975. 28 p.
- 75265 Neutron irradiation effect in glassy carbon.
 - Shimada, Takashi*; Kikuchi, Takeo.
 - JAERI-M-6087. Mar 1974. 19 p.
- 75266 Annealing behavior of radiation hardening in molybdenum neutron irradiated at 600 deg C.
 - Shiraishi, Kensuke; Fukaya, Kiyoshi; Katano, Yoshio.
 - JAERI-M-6214. Aug 1975. 20 p.
- 75267 Radiation and anneal hardening in neutron-irradiated vanadium.
 - Shiraishi, Kensuke; Fukaya, Kiyoshi; Katano, Yoshio.
 - J. Nucl. Mater. v. 54(2) p. 275-285. (1974).
- 75268 Radiation-generated prismatic loops around gas bubbles in aluminum-lithium alloy.
 - Shiraishi, Kensuke; Hishinuma, Akimichi; Katano, Yoshio.
 - Radiat. Eff. v. 21(3) p. 161-164. (1974).
- 75269 Sintering of uranium mononitride.
 - Takahashi, Tadashi; Kido, Tatsuo*; Kikuchi, Takeo.
 - JAERI-M-6014. Mar 1975. 29 p.
- 75270 Reaction between plutonium dioxide and graphite.
 - Yahata, Taneaki; Ouchi, Kinji.
 - J. Nucl. Sci. Technol. (Tokyo). v. 12(2) p. 115-119. (1975).

EARTH SCIENCES

- 75271 The change of diffusivity with measuring position. Proceedings of the Symposium in the physical processes responsible for the dispersal of pollutants in the sea, with special reference to the nearshore zone.
 - Fukuda, Masaaki.
 - The physical processes responsible for the dispersal of pollutants in the sea, with special reference to the nearshore zone. Copenhagen, Denmark. 30 Sep 1974.
 - 1974. v. 167 p. 129-138.
- 75272 Determination of traces of uranium in sea water after separation by froth flotation.
 - Sekine, Keiichi.
 - Mikrochim. Acta. v. 1(4) p. 313-319. (1975).

ALL EFFECTS AND VARIOUS ASPECTS OF EXTERNAL RADIATION IN BIOLOGY

- 75273 Chromosome aberration frequency induced by fission radiation in human peripheral blood lymphocytes. Biological dosimetry for a criticality accident. (In Japanese).
 - Inoue, Yoshinori; Bingo, Kazuyoshi; Fujita, Minoru.
 - Hoken Butsuri. v. 10(2) p. 73-77. (1975).

APPLIED LIFE SCIENCES

- 75274 Radiopasteurization of sawdust media used in propagation of mushrooms. (In Japanese).
 - Ito, Hitoshi; Sato, Tomotaro.
 - Nippon Shokuhin Kogyo Gakkai-Shi. v. 22(8) p. 401-407. (1975).
- 75275 Radiopasteurization of sawdust-media used in propagation of mushrooms. (In Japanese).
 - Ito, Hitoshi; Sato, Tomotaro; Tsuchiya, Atsushi*; Morita, Yoshiharu*.
 - Shokuhin Shosha. v. 10(1-2) p. 56-60. (1975).
- 75276 Dose distribution in onion container irradiated by commercial irradiator. (In Japanese).
 - Kameyama, Kenji*; Takano, Hiroyuki*; Umeda, Keiji*; Aoki, Shohei.
 - Nippon Shokuhin Kogyo Gakkai-Shi. v. 22(9) p. 454-457. (1975).
- 75277 Dose distribution on surface of oranges irradiated by electron beams. (In Japanese).
 - Watanabe, Hiroshi; Aoki, Shohei; Sato, Tomotaro.
 - Shokuhin Shosha. v. 10(1-2) p. 68-74. (1975).
- 75278 Shallow irradiation of vienna sausage by electron beams in prevention of the slime production. (In Japanese).
 - Watanabe, Hiroshi; Kume, Tamikazu; Ito, Hitoshi; Aoki, Shohei; Sato, Tomotaro.
 - Nippon Shokuhin Kogyo Gakkai-Shi. v. 22(2) p. 71-77. (1975).
- 75279 Effects of cobalt-60 gamma-irradiation on browning compounds in wines.
 - Yokotsuka, Koki*; Watanabe, Hiroshi; Shiraishi, Yoshihiro*; Kushida, Tadae*.
 - Hakko Kogaku Zasshi. v. 53(2) p. 84-91. (1975).

HEALTH, SAFETY AND ENVIRONMENT

- 75280 Model experiments on Na pool fire. (In Japanese).
 - Furukawa, Kazuo; Kitani, Susumu; Yamada, Eikichi*; Murata, Hideo; Haruta, Hideto*; Oyama, Nobumi*; Takahashi, Kazuhiro*.
 - JAERI-M-6073. Mar 1975. 116 p.
- 75281 Studies on the methods of environmental radiation monitoring. (In Japanese).
 - Kadokawa, Masayoshi.
 - JAERI-M-5957. Jan 1975. 189 p.
- 75282 Charts for calculation of deposition fraction of aerosol particles in the straight sampling pipe. (In Japanese).
 - Matsui, Hiroshi; Ohata, Tsutomu; Yoshida, Yoshikazu.
 - JAERI-M-6004. Feb 1975. 27 p.
- 75283 Performance of the Harwell-type size-selective dust sampler. (In Japanese).
 - Ohata, Tsutomu; Matsui, Hiroshi; Yoshida, Yoshikazu; Hongo, Syozo*.
 - JAERI-M-6246. Sep 1975. 8 p.

ISOTOPES AND RADIATION SOURCES

- 75284 The dependence of self-focusing of a high-intensity pulsed electron beam on gaseous media as studied by depth-dose distributions, 2. Inorganic polyatomic gases.
 - Hotta, Hiroshi; Tanaka, Ryuichi; Arai, Hidehiko.
 - Radiat. Res. v. 63(1) p. 32-41. (1975).
- 75285 The dependence of self-focusing of a high-intensity pulsed electron beam on gaseous media as studied by depth-dose distributions, 1. Hydrogen and monatomic gases.
 - Hotta, Hiroshi; Tanaka, Ryuichi; Sunaga, Hiromi; Arai, Hidehiko.
 - Radiat. Res. v. 63(1) p. 24-31. (1975).
- 75286 Standardization of $^2\text{H}(d, n)^3\text{He}$ neutron source by total absorption method using water bath.
 - Nakajima, Tadashi; Tojo, Takao; Yamaguchi, Hiroshi; Kondo, Makoto.
 - J. Nucl. Sci. Technol. (Tokyo). v. 12(8) p. 491-501. (1975).
- 75287 Gamma dosimetry by cobalt glass. (In Japanese).
 - Nakamura, Yoshiteru; Tanaka, Ryuichi.
 - JAERI-M-5976. Feb 1975. 25 p.
- 75288 Studies on dynamic behavior of gaseous diffusion plant, 1. Square cascade. (In Japanese).
 - Naruse, Yuji; Maruyama, Yoichiro; Aochi, Tetsuo; Higashi, Kunio*; Yamazaki, Hiroshi*; Daito, Yoshihisa*.
 - JAERI-M-6272. Oct 1975. 58 p.
- 75289 Conceptual design of a commercial potato irradiator for installation in Shihoro, Hokkaido. (In Japanese).
 - Sato, Tomotaro; Tamura, Naoyuki; Aoki, Shohei; Nikaido, Shoji; Tachibana, Hiroyuki; Kume, Tamikazu; Tanaka, Ryuichi; Tajima, Satoshi; Kikuchi, Takayuki; Kawai, Mikito.

- JAERI-M--6000. Mar 1975. 42 p.
- 75290 An evaluation of tritium production by a sodium-cooled fast reactor. (In Japanese).
- Seki, Yasushi; Tanaka, Kichizo; Sako, Kiyoshi.
- JAERI-M--6150. Jun 1975. 18 p.
- 75291 Particle size determination by ^{238}Pu UL x-ray transmission. (In Japanese).
- Senoo, Muneaki; Tachikawa, Noboru; Tominaga, Hiroshi; Enomoto, Shigemasa.
- Radioisotopes (Tokyo). v. 24(7) p. 454-460. (1975).
- 75292 Depth-dose distributions in an aluminum-blue-cellophane stack for a high-intensity pulsed electron beam in an atmosphere of helium.
- Tanaka, Ryuichi; Sunaga, Hiromi; Hotta, Hiroshi.
- Radiat. Res. v. 63(1) p. 14-23. (1975).

ISOTOPE AND RADIATION APPLICATIONS

- 75293 The design of an experimental apparatus for radiation-polymerization ethylene under high temperature and pressure. (In Japanese).
- Watanabe, Hiromasa; Machi, Sueo.
- JAERI-M--5943. Jan 1975. 37 p.

ENGINEERING

- 75294 Two-phase pressure drop in an evaporating channel.
- Asahi, Yoshiro.
- JAERI-M--6223. Aug 1975. 35 p.
- 75295 Molten metal dropping experiment. Initiation criteria of the metal fragmentation in molten metal-water interaction. (In Japanese).
- Fujishiro, Toshio; Ochiai, Masaaki*.
- JAERI-M--6281. Oct 1975. 21 p.
- 75296 Material design data of 2.25Cr-1Mo steel and hastelloy-X for the experimental multi-purpose very-high temperature gas-cooled reactor. (In Japanese).
- Kodaira, Tsuneo; Suzuki, Michiaki*; Uga, Takeo.
- JAERI-M--6213. Aug 1975. 43 p.
- 75297 Measurement of Young's modulus of the high-density pyrolytic carbon layer by compressing the coated fuel particle. (In Japanese).
- Ogawa, Kiyoyuki; Iwamoto, Kazumi.
- JAERI-M--5912. Dec 1974. 20 p.
- 75298 Characteristics of the pilot plant for gas-solid exothermal reaction, and feasibility of its scale-up. (In Japanese).
- Omichi, Hideki; Ito, Hiroshi; Yoshida, Kenzo; Araki, Kunio.
- JAERI-M--6020. Mar 1975. 33 p.
- 75299 Mechanical and thermal tests of NSRR fuel. (In Japanese).
- Saito, Shinzo; Shiozawa, Shusaku; Kawasaki, Satoru; Nasu, Shoichi; Fujishiro, Toshio; Shiozawa, Kenichi.
- JAERI-M--6021. Feb 1975. 86 p.
- 75300 Thermohydraulic behavior in a primary cooling system during a loss-of-coolant accident of a light-water reactor. Results of the mock-up test with ROSA-I. (In Japanese).
- Shimamune, Hiroji; Shiba, Masayoshi; Adachi, Hiromichi; Suzuki, Norio; Okubo, Kaoru; Chiba, Tatsuo; Ito, Hideo; Sobajima, Makoto; Yamamoto, Nobuo; Toda, Saburo*.
- JAERI-M--6318. Dec 1975. 157 p.
- 75301 Ion beam divergence in two stage acceleration.
- Sugawara, Tohru*; Ohara, Yoshihiro.
- Jap. J. Appl. Phys. v. 14(7) p. 1029-1033. (1975).
- 75302 Design, construction and operation of JAERI-linac. (In Japanese).
- Takekoshi, Hidekuni; Asami, Akira; Fuketa, Toyojiro; Kawarasaki, Yuuki; Kitajima, Masahiro; Irie, Kouichi*; Mashiko, Katsuo; Matumoto, Zyun-itiro; Mizumoto, Motoharu; Nakajima, Yutaka.
- JAERI--1238. Mar 1975. 189 p.
- 75303 Neutron Radiography for post-irradiation examination. (In Japanese).
- Turuno, Akira; Suzuki, Hiroshi; Tabata, Toshio.
- Nippon Genshiryoku Gakkai-Shi. v. 17(10) p. 554-558. (1975).
- 75304 Failure of the capsule for coated particles irradiation. (In Japanese).
- Yamaki, Jikei; Nomura, Yasushi; Nagamatsuya, Takaaki; Yamahara, Takeshi; Sakai, Haruyuki.
- JAERI-M--6250. Oct 1975. 76 p.
- 75305 Effect of the heated length on the burnout heat flux in the rod-bundle test section. (In Japanese).
- Yamazaki, Yasaburo; Iguchi, Tadashi; Niitsuma, Yasushi; Takano, Kazumi.

- JAERI-M-6030. Mar 1975. 26 p.

- 75306 Burnout heat flux of narrow-spaced rod bundles. Effect of flow rate and steam quality. (In Japanese).
- Yamazaki, Yasaburo; Iguchi, Tadashi; Niitsuma, Yasushi.
- JAERI-M-6031. Mar 1975. 33 p.

NUCLEAR REACTORS (GENERAL)

- 75307 Method of computing the angle factors among fuel rods in clad swelling during LOCA. (In Japanese).
- Abe, Kiyoharu.
- JAERI-M-5949. Jan 1975. 29 p.
- 75308 Theory of omega-d modes.
- Asahi, Yoshiro.
- J. Nucl. Sci. Technol. (Tokyo). v. 12(2) p. 92-106. (1975).
- 75309 Calculated effect of radially asymmetric heat generation on temperature and heat flux distribution in a fuel rod.
- Harayama, Yasuo.
- Nucl. Eng. Des. v. 31(1) p. 66-71. (1974).
- 75310 FREG-1: a computer program for calculating the gap conductance in oxide fuel pins. (In Japanese).
- Harayama, Yasuo; Izumi, Fumio; Fujita, Misao; Yamada, Rayji; Morishima, Atuyoshi; Kuriyama, Minoru; Ishibashi, Akihiro*.
- JAERI-M-5958. Jan 1975. 51 p.
- 75311 A consideration for the average temperature in fuel rod plenum. (In Japanese).
- Harayama, Yasuo; Izumi, Fumio; Yamada, Rayji; Suzuki, Motoe.
- JAERI-M-6249. Sep 1975. 10 p.
- 75312 Preliminary analysis of the core and plant dynamics of a commercial HTGR power plant. (In Japanese).
- Hatta, Masahisa*; Tani, Youtaro*; Ezaki, Masahiro; Mitake, Susumu.
- JAERI-M-6065. Mar 1975. 66 p.
- 75313 The revised THERMOS code 'THERMOS - JMTR'. (In Japanese).
- Iida, Hiromasa; Nagaoka, Yoshiharu.
- JAERI-M-6071. Mar 1975. 35 p.
- 75314 Applicability of the density coefficient method for large fast reactors. (In Japanese).
- Iijima, Tsutomu.
- JAERI-M-6063. Mar 1975. 19 p.
- 75315 Density coefficient measurements in FCA assembly VI-1. (In Japanese).
- Iijima, Tsutomu; Hirota, Jitsuya; Obu, Makoto; Kusano, Joichi; Yamagishi, Kojiro; Watanabe, Hideaki; Ogawa, Hironobu.
- JAERI-M-6062. Mar 1975. 9 p.
- 75316 HETERO: a subroutine for calculation of resonance heterogeneity in fast reactor lattice cell.
- Ishiguro, Yukio.
- JAERI-M-5940. Dec 1974. 22 p.
- 75317 Multiregion equivalence relation for resonance heterogeneity effects.
- Ishiguro, Yukio.
- Nucl. Sci. Eng. v. 55(3) p. 349-351. (1974).
- 75318 Integral-versions of some kinetic experiments for determining large negative reactivity of reactor.
- Kaneko, Yoshihiko.
- J. Nucl. Sci. Technol. (Tokyo). v. 12(7) p. 402-412. (1975).
- 75319 STAT: A code for analysis of statistical properties of averaged resonance cross sections. (In Japanese).
- Kikuchi, Yasuyuki.
- JAERI-M-6248. Sep 1975. 17 p.
- 75320 Approximate expression of collision density and correction of group elastic removal cross section near a wide scattering resonance.
- Kikuchi, Yasuyuki; Katsuragi, Satoru.
- JAERI-M-5963. Jan 1975. 23 p.
- 75321 EXPANDA-75: one-dimensional diffusion code for multi-region plate lattice heterogeneous system.
- Kikuchi, Yasuyuki; Katsuragi, Satoru; Ogitsu, Makoto*; Suzuki, Tomoo.
- JAERI-M-1239. Aug 1975. 63 p.
- 75322 Reactivity measurement in a far-subcritical fast system, (1). (In Japanese).
- Mizoo, Nobutatsu; Nakano, Masafumi; Mukaiyama, Takehiko; Cho, Mann*.
- JAERI-M-6066. Mar 1975. 43 p.

- 75323 Reactivity measurement in a far-subcritical fast system, (2). Neutron source multiplication method. (In Japanese).
 - Mukaiyama, Takehiko; Nakano, Masafumi; Mizoo, Nobutatsu; Cho, Mann*.
 - JAERI-M-6067. Mar 1975. 21 p.
- 75324 Survey on the research and development of thorium fuel. (In Japanese).
 - Murata, Hiroshi; Kikuchi, Toru; Ueno, Kaoru; Iwamoto, Kazumi; Yasukawa, Sigeru; Yagi, Elji*; Emura, Satoru.
 - JAERI-M-6002. Mar 1975. 108 p.
- 75325 SLAROM: a code for calculation of a heterogeneous core in fast reactor. (In Japanese).
 - Nakagawa, Masayuki; Tsuchihashi, Keiichiro.
 - JAERI-M-5916. Dec 1974. 32 p.
- 75326 Modification of the MORSE code for Monte Carlo eigenvalue problems by coarse-mesh rebalance acceleration.
 - Nishida, Takahiko; Horikami, Kunihiro; Suzuki, Tadakazu; Nakahara, Yasuaki; Taji, Yukichi; Asaoka, Takumi.
 - JAERI-M-6251. Sep 1975. 36 p.
- 75327 Experimental analysis of the central reaction-rate ratios in a gas-cooled fast reactor. (In Japanese).
 - Osugi, Toshitaka; Yoshida, Hiroyuki.
 - JAERI-M-5971. Feb 1975. 13 p.
- 75328 Calculation program for fast reactor design, I. PIGEON: program for calculating the cell heterogeneity by collision probability method. (In Japanese).
 - Osugi, Toshitaka; Yoshida, Hiroyuki; Ihara, Hitoshi*.
 - JAERI-M-6038. Mar 1975. 40 p.
- 75329 Analysis of fission ratio distribution in spherical lithium metal assembly with a graphite reflector.
 - Seki, Yasushi; Maekawa, Hiroshi; Moriyama, Masatoshi*; Hiraoka, Toru; Hirota, Jitsuya.
 - JAERI-M-6220. Aug 1975. 14 p.
- 75330 Reference design of the experimental multi-purpose high-temperature gas-cooled reactor. Nuclear parametric lattice study for design of the control rods. (In Japanese).
 - Shindo, Ryuiti.
 - JAERI-M-6113. May 1975. 53 p.
- 75331 Multigroup cross section production by the GGC-4 computer code. (In Japanese).
 - Tsutsui, Tsuneo; Ise, Takeharu.
 - JAERI-M-5991. Feb 1975. 148 p.

REACTOR TYPES

- 75332 Stable nuclides of fission-product zirconium in the spent fuel of JRR-1 and JPDR-1.
 - Akatsu, Eiko; Aratono, Yasuyuki.
 - Radiochem. Radioanal. Lett. v. 19(3) p. 179-186. (1974).
- 75333 Burnup analysis of the power reactor, 1. Evaluation of the three-dimensional power distribution calculation methods and development of the code FLORA. (In Japanese).
 - Ezure, Hideo.
 - JAERI-M-6232. Sep 1975. 103 p.
- 75334 Burnup analysis of the power reactor, 2. Analysis of core performance of JPDR-1 by FLORA. (In Japanese).
 - Ezure, Hideo.
 - JAERI-M-6233. Sep 1975. 50 p.
- 75335 Burnup analysis of the power reactor, 3. Analysis of the JPDR-1 fuels for U, Pu and transplutonium. (In Japanese).
 - Ezure, Hideo.
 - JAERI-M-6234. Sep 1975. 56 p.
- 75336 Effect of the neutron spectrum in evaluation of the fast neutron fluxes. (In Japanese).
 - Iida, Hiromasa; Nomura, Masayuki; Ando, Hiroel; Oyamada, Rokuro; Terada, Hiromi; Kanbara, Masanori; Mizuho, Mitsuru.
 - JAERI-M-6205. Aug 1975. 59 p.
- 75337 Reactor physics characteristics of the NSRR(nuclear safety research reactor). (In Japanese).
 - Ise, Takeharu; Inabe, Teruo; Nakahara, Yasuaki.
 - Nippon Genshiryoku Gakkai-Shi. v. 17(6) p. 314-321. (1975).
- 75338 Ceramic coating of HTGR materials. (In Japanese).
 - Itami, Hiroharu; Muraoka, Susumu; Nomura, Sueo.
 - JAERI-M-6127. May 1975. 22 p.
- 75339 Preparation of HTR fuel compact by rubber pressing. (In Japanese).
 - Iwamoto, Kazumi; Tobita, Tsutomu; Masuyama, Toshio*; Yamazoe, Hiroshi*.
 - JAERI-M-5992. Feb 1975. 20 p.

- 75340 Determination of matrix density of HTGR fuel compact by x-ray radiography.
 - Kashimura, Satoru; Iwamoto, Kazumi.
 - Radioisotopes (Tokyo). v. 23(12) p. 717-719. (1974).
- 75341 Young's moduli of compact matrices for HTGR fuel.
 - Kikuchi, Akira; Iwamoto, Kazumi.
 - J. Nucl. Sci. Technol. (Tokyo). v. 12(3) p. 174-180. (1975).
- 75342 Removal of the in-pile gas loop TLG-1-50. (In Japanese).
 - Kitahara, Tanemichi; Yokoo, Hiroshi; Kaieda, Keisuke; Toyoshima, Noboru; Fukushima, Masao; Kumagai, Katsuaki; Yamada, Tadanori; Kosuge, Ikuo; Ohata, Tooru.
 - JAERI-M-5962. Jan 1975. 34 p.
- 75343 Non-destructive gamma-ray spectrometry on spent fuels of a boiling water reactor.
 - Matsuura, Shojiro; Tsuruta, Harumichi; Suzuki, Takenori; Okashita, Hiroshi; Umezawa, Hirokazu; Natsume, Haruo.
 - J. Nucl. Sci. Technol. (Tokyo). v. 12(1) p. 24-34. (1975).
- 75344 Reference design (Mk-I and Mk-II) for experimental multi-purpose VHTR. A study on thermal and mechanical performances of the core. (In Japanese).
 - Miyamoto, Yoshiaki; Suzuki, Kunihiko; Sato, Sadao.
 - JAERI-M-6264. Oct 1975. 128 p.
- 75345 Liquid nitrogen supply system for the low temperature fissiochemical loop (LTFL). (In Japanese).
 - Horiyama, Noboru; Sukegawa, Tomohide; Tokunaga, Okihiro; Ikezoe, Yasumasa; Sato, Shoichi; Danno, Akibumi*.
 - JAERI-M-6301. Nov 1975. 13 p.
- 75346 Flow-induced vibration of the fuel assembly with a hydraulic hold-down device, (1). Experimental study on the vibration characteristics. (In Japanese).
 - Murao, Yoshio.
 - JAERI-M-6187. Jul 1975. 38 p.
- 75347 ROSA-II test data report, 2. (Run 307, 308, 309). (In Japanese).
 - Reactor Safety Lab. 1.
 - JAERI-M-6241. Sep 1975. 75 p.
- 75348 ROSA-II test data report, 1. Run 202, 203, 303, 304, 306. (In Japanese).
 - Reactor Safety Lab. 1.
 - JAERI-M-6240. Sep 1975. 118 p.
- 75349 Operation report on the low temperature fissiochemical loop (LTFL), 5. Operations during the period of April 1973 to December 1974. (In Japanese).
 - Sato, Shoichi; Kobayashi, Toshiaki; Ikezoe, Yasumasa; Shimizu, Saburo; Nakajima, Hayato.
 - JAERI-M-6107. Apr 1975. 33 p.
- 75350 Description of the ROSA-II test facility.
 - Shiba, Masayoshi; Adachi, Hiromichi; Matsumoto, Iwao; Suzuki, Norio; Murata, Hideo; Chiba, Tatsuo; Ito, Hideo; Osaki, Hideki; Yamamoto, Nobuo.
 - JAERI-M-6247. Dec 1975. 109 p.
- 75351 Fundamental conceptual design of the experimental multi-purpose high-temperature gas-cooled reactor. (In Japanese).
 - Shimokawa, Junichi; Yasuno, Takehiko; Yasukawa, Shigeru; Mitake, Susumu; Miyamoto, Yoshiaki; Muto, Yasushi; Shindo, Ryuiti; Tadokoro, Yoshihiro; Ikushima, Takeshi; Arai, Taketoshi.
 - JAERI-M-6141. Jun 1975. 394 p.
- 75352 Evolution of gas from structural materials of the high temperature helium gas loop. (In Japanese).
 - Tone, Hirohito; Yokouchi, Ichiro; Baba, Osamu.
 - Shitsuryo Bunseki. v. 22(4) p. 275-280. (1974).
- 75353 A numerical study of heterogeneity effects in fast reactor critical assemblies.
 - Tone, Tatsuzo.
 - J. Nucl. Sci. Technol. (Tokyo). v. 12(8) p. 467-481. (1975).
- 75354 Space-dependent neutron spectrum effects in a fast reactor.
 - Tone, Tatsuzo.
 - J. Nucl. Sci. Technol. (Tokyo). v. 12(3) p. 190-193. (1975).

INSTRUMENTATION

- 75355 A new magnetic filter for internal-conversion studies with a Si(Li) detector.
 - Ishii, Mitsuhiko.
 - Nucl. Instrum. Methods. v. 127(1) p. 53-59. (1975).
- 75356 Development of powder flow meter. (In Japanese).
 - Kagami, Haruo; Maeda, Mitsuru; Yagi, Eiji*.
 - Kagaku Kagaku Ronbunshu. v. 1(3) p. 327-329. (1975).
- 75357 Study on the behavior of resistance strain gages in nuclear radiation environments. (In Japanese).

- Kumagai, Katsuaki; Yokoo, Hiroshi; Kitahara, Tanemichi; Kaieda, Keisuke.
- JAERI-M-6200. Aug 1975. 22 p.
- 75358 CAMAC: a modular instrumentation system for data handling revised description and specification. (In Japanese).
- Kumahara, Tadashi; Inomata, Shinji; Kozawa, Teruo; Ohuchi, Isao; Satoh, Takao.
- JAERI-M-6003. Mar 1975. 68 p.
- 75359 A method for obtaining the tritium production rate distribution with a LiF thermoluminescence dosimeter. (In Japanese).
- Mackawa, Hiroshi.
- JAERI-M-6055. Mar 1975. 15 p.
- 75360 Test procedures for germanium gamma-ray detectors. A Japanese version of IEC publication 430. (In Japanese).
- Sakai, Eiji; Terada, Hiromi; Katagiri, Masaki.
- JAERI-M-5914. Jan 1975. 25 p.
- 75361 Temperature cycling test of a hyper-pure germanium detector. (In Japanese).
- Sakai, Eiji; Terada, Hiromi; Katagiri, Masaki; Itoh, Hiroshi.
- JAERI-M-5988. Feb 1975. 38 p.
- 75362 Progress report, Semiconductor Detector Group, April 1, 1974 to March 31, 1975.
- Sakai, Eiji; Terada, Hiromi; Katagiri, Masaki; Itoh, Hiroshi.
- JAERI-M-6258. Sep 1975. 36 p.
- 75363 Gamma-ray spectrum measurement in Japan research reactor NO.3 using a portable Ge(Li) spectrometer. (In Japanese).
- Sakai, Eiji; Terada, Hiromi; Suzuki, Seishiro*; Katagiri, Masaki; Shirai, Eiji.
- JAERI-M-6024. Mar 1975. 38 p.
- 75364 An analysis method of gamma-ray pulse-height distributions obtained with a Ge(Li) detector.
- Sasamoto, Nobuo; Koyama, Kinji; Tanaka, Shun-ichi.
- Nucl. Instrum. Methods. v. 125(4) p. 507-523. (1975).
- 75365 A large area thin NaI(Tl) detector for external counting of low-energy emitters in lung.
- Shirotsani, Takashi.
- J. Nucl. Sci. Technol. (Tokyo). v. 12(7) p. 442-449. (1975).
- 75366 A sample changer system. Automatic measurement of neutron capture cross sections. (In Japanese).
- Shoji, Tokio; Mizumoto, Motoharu; Kawarasaki, Yuuki.
- JAERI-M-6010. Mar 1975. 35 p.
- 75367 Fading effect and its correction method of cobalt glass dosimeter. (In Japanese).
- Tanaka, Ryuichi; Nakamura, Yoshiteru.
- Radioisotopes (Tokyo). v. 24(1) p. 1-5. (1975).
- 75368 Analysis of a gamma-ray spectrum by using a standard spectrum. (In Japanese).
- Tasaka, Kanji.
- JAERI-M-6145. Jun 1975. 74 p.
- 75369 Performance of a portable whole-body counter developed in JAERI. (In Japanese).
- Yamagishi, Hideo; Mizushita, Seiichi; Yabe, Akira.
- Hoken Butsuri. v. 10(1) p. 1-7. (1975).

WASTE MANAGEMENT

- 75370 Recovery of Pu and Am from alpha-bearing aqueous wastes, 2.
- Akatsu, Johkun.
- Radiochem. Radioanal. Lett. v. 19(1) p. 25-32. (1974).
- 75371 Recovery of Pu and Am from alpha-bearing aqueous wastes, 3.
- Akatsu, Johkun.
- Radiochem. Radioanal. Lett. v. 19(1) p. 33-42. (1974).
- 75372 Evaporation of alpha bearing aqueous wastes on a laboratory scale.
- Akatsu, Johkun; Ishimori, Tomitaro.
- Radiochem. Radioanal. Lett. v. 18(2) p. 51-59. (1974).
- 75373 Analytical evaluation on the leaching of radionuclides from waste solids.
- Noboru, Moriyama; Matsuzuru, Hideo; Dojiri, Shigeru; Wadachi, Yoshiki.
- JAERI-M-6302. Nov 1975. 39 p.
- 75374 Flocculation treatment of radioactive contaminated sea water, 2. Operational performance with real wastes. (In Japanese).
- Sakurai, Akira*; Nagaoka, Yukio; Morishita, Satoru; Wadachi, Yoshiki.
- Nippon Genshiryoku Gakkai-Shi. v. 17(1) p. 27-30. (1975).

NUCLEAR DOCUMENTATION

- 75375 Magnetic-tape base system for computer USC-3. MTEDIT: one of the programs and usage of the system. (In Japanese).
 - Kawarasaki, Yuuki.
 - JAERI-M-5980. Feb 1975. 39 p.
- 75376 On-line-monitor for the USC-3 computer and independent and simultaneous execution system of various TOF measurements. (In Japanese).
 - Kawarasaki, Yuuki.
 - JAERI-M-6011. Mar 1975. 34 p.
- 75377 Trial for automatic correction of misspelled descriptors. (In Japanese).
 - Komatsubara, Yasutoshi.
 - Dokumenteshon Kenkyu. v. 25(4) p. 157-165. (1975).
- 75378 GSL-graphic subroutine library for plotters and displays. (In Japanese).
 - Nakamura, Yasuhiro; Onuma, Yoshio.
 - 16. programming symposium. Hakone, Kanagawa, Japan. 9 Jan 1975.
 - Proc. Programming Symposium. v. 16 p. 1-10. (1975).
- 75379 GROSA-II: Interactive data analysis system for ROSA-II using graphic display. (In Japanese).
 - Nakamura, Yasuhiro; Onuma, Yoshio; Namatame, Ken; Suzuki, Norio.
 - JAERI-M-6237. Sep 1975. 28 p.
- 75380 Computer network for radiation measurement. (In Japanese).
 - Yamada, Takayuki; Ishiguro, Misako; Nakahara, Yoshinori; Yagi, Hideyuki; Koyama, Kinji.
 - 16. programming symposium. Hakone, Kanagawa, Japan. 9 Jan 1975.
 - Proc. Programming Symposium. v. 16 p. 283-298. (1975).

MATHEMATICAL METHODS AND COMPUTER CODES

- 75381 Calculation of the nuclear reaction cross sections with an intranuclear-cascade model. (In Japanese).
 - Baba, Sumiko.
 - JAERI-M-6306. Nov 1975. 53 p.
- 75382 GTOROTO-3, -4: seismic simulation program using graphic display for block-type fuel HTGR core. (In Japanese).
 - Ikushima, Takeshi; Onuma, Yoshio; Nakamura, Yasuhiro.
 - JAERI-M-5981. Feb 1975. 31 p.
- 75383 Calculation of the modified Bessel functions of integer order and the function subprograms. (In Japanese).
 - Kawamura, Hiroshi.
 - JAERI-M-6208. Aug 1975. 21 p.
- 75384 The method of characteristics for axi-symmetric two-dimensional flows.
 - Kobayashi, Kensuke; Namatame, Ken.
 - JAERI-M-5969. Jan 1975. 13 p.
- 75385 PGS LIB/BASIC: a basic software for graphic programming. (In Japanese).
 - Nakamura, Yasuhiro; Onuma, Yoshio.
 - JAERI-M-6023. Mar 1975. 41 p.
- 75386 Computer code MLCOSP for multiple-correlation and spectrum analysis with a hybrid computer. (In Japanese).
 - Oguma, Ritsuo; Fujii, Yoshio; Usui, Hozumi; Watanabe, Koichi.
 - JAERI-M-6252. Oct 1975. 104 p.
- 75387 Standard spectrum method for analysis of a gamma-ray spectrum and its application to an irradiated fuel. (In Japanese).
 - Tasaka, Kanji.
 - JAERI-M-5947. Jan 1975. 285 p.
- 75388 GROSS-M and GROSS-P: Code for prediction of beta-decay properties and the evaluation of their applicability to decay heat calculations. (In Japanese).
 - Yoshida, Tadashi*.
 - JAERI-M-6313. Nov 1975. 32 p.

MISCELLANEOUS

- 75389 Reactor Engineering Division annual report. April 1, 1973 to March 31, 1974.
 - Div. of Reactor Engineering.
 - JAERI-M-5955. Feb 1975. 200 p.
- 75390 Reactor Engineering Division annual report. April 1, 1974 - March 31, 1975.
 - Div. of Reactor Engineering.

- JAERI-M—6320. Nov 1975. 216 p.
- 75391 Report on the operation, utilization and technical development of research reactors and hot laboratory. April 1, 1974 to March 31, 1975. (In Japanese).
 - Div. of Research Reactor Operation.
 - JAERI-M—6245. Oct 1975. 156 p.
- 75392 Progress report on the INIS operations, 3. 1 April 1973 to 31 March 1975. (In Japanese).
 - Div. of Technical Information.
 - JAERI-M—6197. Jul 1975. 33 p.
- 75393 Technical publications by JAERI staff from January 1974 to December 1974.
 - Div. of Technical Information.
 - JAERI—5011(Vol.8). Mar 1975. 42 p.
- 75394 Design and safety features of commercial nuclear power plants in the United States. General description. (In Japanese).
 - Kuriyama, Minoru; Morishima, Atuyoshi.
 - JAERI-M—5968. Jan 1975. 27 p.
- 75395 Design data and safety features of commercial nuclear power plants in the United States: thermal hydraulic. (In Japanese).
 - Kuriyama, Minoru; Morishima, Atuyoshi.
 - JAERI-M—5987. Feb 1975. 38 p.
- 75396 Design and safety features of commercial nuclear power plants in the United States. Nuclear characteristics. (In Japanese).
 - Kuriyama, Minoru; Morishima, Atuyoshi.
 - JAERI-M—5995. Feb 1975. 35 p.
- 75397 Design data and safety features of commercial nuclear power plants in Japan. (In Japanese).
 - Morishima, Atuyoshi; Fujita, Misao; Kuriyama, Minoru.
 - JAERI-M—5959. Jan 1975. 118 p.
- 75398 Health physics and safety in JAERI, 17. April 1, 1974 to March 31, 1975. (In Japanese).
 - Office of Safety and Control, Tokyo; Div. of Health Physics and Safety; Safety Sect., Takasaki; Health Physics and Safety Sect., Oarai; Waste Management and Decontamination Sect., Oarai.
 - JAERI-M—6224. Sep 1975. 214 p.
- 75399 Annual report of the Osaka Laboratory for Radiation Chemistry, Japan Atomic Energy Research Institute, 8. April 1, 1974 - March 31, 1975.
 - Osaka Lab. for Radiation Chemistry.
 - JAERI-M—6260. Oct 1975. 83 p.

PERSONAL AUTHOR INDEX

A		Chiba, Tatsuo	75350	Gomay, Yoshio*	75015
Abe, Jiro	75212	Chihara, Junzo	75006	Gotoda, Masao	75110
Abe, Kiyoharu	75307	Cho, Mann*	75322		75111
Abe, Toshihiko	75137		75323		75112
	75138	D			
	75145	Daito, Yoshihisa*	75288		75113
	75146	Danno, Akibumi	75140		75114
	75203	Danno, Akibumi*	75345		75115
	75227	Doi, Kenji	75054	Gotoh, Hiroshi	75116
	75228		75204		
	75229		75243	H	
	75230	Dojiri, Shigeru	75147	Hamaguchi, Yoshikazu ..	75002
Adachi, Hiromichi	75300		75373		75004
	75350	E			
Adachi, Takeo	75117	Ebihara, Hiroshi	75104		75005
	75118	Emura, Satoru	75147	Hara, Masao	75020
	75119		75324	Harada, Masato*	75183
	75120	Enomoto, Shigemasa	75291	Harada, Osamu*	75110
Akasaka, Kazuyuki*	75130	Eto, Motokuni	75234	Harami, Taikan*	75083
Akatsu, Eiko	75101		75235		75091
	75332		75236		75094
Akatsu, Johkun	75370		75259	Harayama, Yasuo	75309
	75371	Ezaki, Masahiro	75312		75310
	75372	Ezure, Hideo	75333		75311
Amano, Hiroshi	75197		75334	Haruta, Hideto*	75280
Amano, Tsuneo*	75001		75335	Hasegawa, Akira	75084
	75051	F			
Ando, Hiroei	75336	Fontana, M.G.*	75133		75089
Anno, Katsuto	75057	Fujii, Yoshio	75386	Hashimoto, Masao	75240
Anzai, Shuichiro*	75002	Fujimura, Takashi	75007		75245
	75052		75105	Hashitani, Hiroshi	75117
Aochi, Tetsuo	75207	Fujino, Takeo	75199		75118
	75288	Fujisawa, Noboru	75008		75119
Aoki, Shohei	75276	Fujishiro, Toshio	75237		75120
	75277		75295	Hatada, Motoyoshi	75121
	75278	Fujita, Minoru	75273		75122
	75289	Fujita, Misao	75310	Hatano, Hiroyuki*	75130
Aoyagi, Hisao	75102		75397	Hatta, Masahisa*	75312
Ara, Katsuyuki	75231	Fukaya, Kiyoshi	75242	Hayakawa, Naohiro	75227
Arai, Hidehiko	75103		75266		75228
	75284		75267	Higashi, Kunio*	75288
	75285	Fuketa, Toyojir	75082	Hiraoka, Toru	75090
Arai, Takashi	75057	Fuketa, Toyojiro	75302		75329
Arai, Taketoshi	75232	Fukuda, Kosaku	75238	Hirota, Jitsuya	75315
	75351	Fukuda, Kousaku	75106		75329
Arakawa, Kazuo	75186		75239	Hirota, Kozo	75121
Araki, Kunio	75171	Fukuda, Masaaki	75271		75122
	75183	Fukuda, Takeshi	75107	Hirotsu, Shunsuke*	75013
	75298		75108	Hishinuma, Akinichi	75242
Araki, Nobuyuki*	75023	Fukushima, Hiroyuki	75109		75246
Aratono, Yasuyuki	75101	Fukushima, Masao	75342		75268
	75195	Funahashi, Akimasa	75008	Hoizumi, Kiyoshi	75123
	75332		75009		75124
Ariga, Seiichi*	75081		75035	Hongo, Syozo*	75283
Asahi, Yoshiro	75294		75066	Horikami, Kunihiko	75326
	75308	Furukawa, Kazuo	75023	Hoshi, Tatsuo	75016
Asami, Akira	75302		75280	Hoshino, Akira	75125
Asano, Masaharu	75137	Furuta, Teruo	75240	Hoshino, Taday*	75206
Asaoka, Takumi	75326		75245	Hosoi, Fumio	75144
				Hotta, Hiroshi	75192
B					75284
Baba, Hiroshi	75179				75285
Baba, Osamu	75352				75292
Baba, Sumiko	75381	G			
Beck, P.H.*	75133	Gesi, Kazuo	75010	I	
Betsuyaku, Hiroshi	75003		75011	Ideno, Kazumi	75085
	75004		75012	Igarasi, Sin-iti	75086
	75005		75013		75087
Bingo, Kazuyoshi	75273		75241	Iguchi, Tadashi	75305
Brakas, M.J.*	75231		75262		75306
C			75014	Ihara, Hitoshi*	75328
Chiba, Tatsuo	75300	Gomay, Yoshio*	75014	Iida, Hiromasa	75313
					75336
				Iijima, Tsutomu	75314
					75315

Iizumi, Masashi	75017	Kambayashi, Yuichiro ..	75020	Kodaira, Tsuneo	75296
Ikawa, Katsuichi	75127	Kameari, Akihisa*	75021	Kodama, Atsuro*	75180
	75238		75022	Kohsaka, Atsuo	75207
	75251		75045	Komaki, Ken-ichiro* ...	75243
Ikezawa, Yoshio	75092		75046	Komaki, Ken-ichiro*	75154
Ikezoe, Yasumasa	75174		75065	Komaki, Yoshihide	75131
	75182	Kameyama, Kenji*	75276		75132
	75345	Kamioki, Hiroshi	75104	Komatsubara, K.F.*	75017
	75349	Kanbara, Masanori	75336	Komatsubara, Yasutoshi	75377
Ikushima, Takeshi	75351	Kaneko, Yoshihiko	75318	Kominami, Shiro*	75130
	75382	Kasai, Satoshi	75008	Kondo, Makoto	75286
Inabe, Teruo	75337	Kashimura, Satoru	75340	Kondo, Tatsuo	75133
Inomata, Shinji	75358	Katagiri, Masaki	75360		75134
Inoue, Yoshinori	75273		75361		75135
Irie, Kouichi*	75302		75362		75152
Ise, Takeharu	75331		75363	Kosuge, Ikuo	75342
	75337	Katano, Yoshio	75242	Koyama, Kinji	75364
Ishibashi, Akihiro* ...	75310		75266		75380
Ishigaki, Isao	75126		75267	Kozawa, Teruo	75358
Ishiguro, Misako	75380		75268	Kubo, Kazuko	75027
Ishiguro, Yukio	75084	Kato, Sohichi*	75024		75028
	75316	Kato, Teruo	75033		75029
	75317	Kato, Yoshiki*	75017		75030
Ishii, Mitsuhiko	75355	Kato, Yoshio	75023		75031
Ishimori, Tomitaro	75210	Katsuragi, Satoru	75089	Kudo, Hiroshi	75123
	75372		75320	Kumagai, Katsuaki	75009
Iso, Shuichi	75125		75321		75342
Itami, Hiroharu	75148	Kawai, Mikito	75289		75357
	75256	Kawamura, Hiroshi	75244	Kumahara, Tadashi	75358
	75338		75383	Kumakura, Minoru	75222
Ito, Akihiko	75126	Kawamura, Takaichi	75264		75223
	75153	Kawarasaki, Yuuki	75302		75224
Ito, Hideo	75300		75366		75225
	75350		75375	Kume, Tamikazu	75278
Ito, Hiroshi	75298		75376		75289
Ito, Hitoshi	75274	Kawasaki, Satoru	75240	Kurasawa, Toshiaki	75154
	75275		75245	Kurihara, Masayoshi ...	75212
	75278		75246	Kuriyama, Isamu	75054
Ito, Masayuki	75139		75299		75103
	75140	Kawashima, Yukichi* ...	75206		75171
Ito, Mitsuo	75125	Kawatsura, Kiyoshi	75031	Kuriyama, Kazuo*	75032
Itoh, Hiroshi	75361		75130	Kuriyama, Minoru	75310
	75362		75154		75394
Itoh, Satoshi	75037		75243		75395
Iwamoto, Kazumi	75106	Kazumata, Yukio	75024		75396
	75127		75031		75397
	75238	Kido, Tatsuo*	75269	Kusano, Joichi	75315
	75239	Kikuchi, Akira	75341	Kushida, Tadae*	75279
	75247	Kikuchi, Masahiko	75152		
	75248	Kikuchi, Takayuki	75289		
	75249	Kikuchi, Takeo	75265		
	75250		75269		
	75251	Kikuchi, Teruo	75247		
	75297		75248		
	75324		75249		
	75339		75250		
	75340	Kikuchi, Toru	75324		
	75341	Kikuchi, Yasuyuki	75089		
Iwasaki, Matae	75160		75319		
	75184		75320		
Iwata, Tadao	75243		75321		
	75253	Kikuyama, Toshihiko ...	75134		
	75258		75152		
Iwata, Yukio	75128	Kirihara, Tomoo*	75141		
Izui, Kazuhiko	75131		75142		
Izumi, Fumio	75310	Kishida, Masami	75128		
	75311	Kitada, Yoshinori*	75111		
		Kitahara, Tanemichi ...	75342		
			75357	Maeda, Hikosuke	75025
		Kitajima, Masahiro	75302		75026
		Kitani, Susumu	75048		75057
			75280		75058
		Kitsunozaki, Akio	75009	Maeda, Mitsuru	75356
			75025	Maekawa, Hiroshi	75043
			75025		75090
			75057		75329
			75057		75359
			75058	Maeta, Hiroshi	75033
		Kobayashi, Fumiaki	75238		75253
			75251	Makino, Yukiharu	75152
		Kobayashi, Kensuke	75384	Makita, Yasuharu*	75262
		Kobayashi, Tomofumi* ..	75068	Makuuchi, Keizo	75137
		Kobayashi, Toshiaki ...	75174		75138
			75349	Maruyama, Yoichiro	75288
		Kobayashi, Yasushi	75229	Masaki, Norio	75032
		Kobayashi, Yoshii	75252		75054
		Kobayasi, Kiyoshi*	75023		75254

M

Machi, Sueo	75062
	75063
	75136
	75147
	75187
	75188
	75208
	75214
	75215
	75216
	75217
	75218
	75219
	75220
	75293
Maeda, Hikosuke	75025
	75026
	75057
	75058
Maeda, Mitsuru	75356
Maekawa, Hiroshi	75043
	75090
	75329
	75359
Maeta, Hiroshi	75033
	75253
Makino, Yukiharu	75152
Makita, Yasuharu*	75262
Makuuchi, Keizo	75137
	75138
Maruyama, Yoichiro	75288
Masaki, Norio	75032
	75054
	75254

Ozawa, Kunio	75243	Shimomura, Yasuo	75050	Tajima, Satoshi	75289
			75057	Takada, Takashi*	75142
			75058		75154
R		Shindo, Masami	75134	Takagaki, Torao	75083
			75152		75091
Ryufuku, Hiroshi	75053	Shindo, Ryuiti	75330		75094
			75351		75151
		Shiozawa, Kenichi	75154	Takahashi, Akira	75169
			75299	Takahashi, Kazuhiro ...	75048
		Shiozawa, Shusaku	75299	Takahashi, Kazuhiro* ..	75280
Saeki, Masakatsu	75166	Shirai, Eiji	75363	Takahashi, Kohki	75009
Sagawa, Chiaki	75210	Shiraishi, Kensuke	75061	Takahashi, Koki	75066
Saito, Akira	75209		75242	Takahashi, Masao	75102
	75252		75266		75226
Saito, Shinzo	75299		75267	Takahashi, Tadashi	75269
Sakai, Eiji	75360		75268	Takano, Hiroyuki*	75276
	75361	Shiraishi, Yoshihiro* .	75279	Takano, Kazumi	75305
	75362	Shirakata, Hirofumi ...	75066	Takeda, Kunihiko*	75136
	75363	Shirofumi, Takashi	75365	Takeda, Tatsuoki	75069
Sakai, Haruyuki	75304	Shoji, Tokio	75366	Takeda, Tsuneo	75095
Sakamoto, Masanobu	75054	Sobajima, Makoto	75300	Takehisa, Masaaki	75062
Sako, Kiyoshi	75055	Soga, Takeshi	75160		75063
	75290		75184		75172
Sakumoto, Akihisa	75145	Sone, Kazuho	75059		75175
	75146		75060		75180
	75167		75061		75187
Sakurada, Ichiro	75129	Sugawara, Tohru*	75049		75188
	75163		75301		75200
	75168	Sugimoto, Shun-ichi ...	75150		75214
Sakurai, Akira*	75374		75185		75215
Sakurai, Tsutomu	75169	Sugiura, Toshio	75186		75216
Sanokawa, Konomo	75237	Sugo, Takanobu	75136		75217
	75244		75147		75218
Sasaki, Takashi	75183	Sukegawa, Tomohide	75345		75219
Sasamoto, Nobuo	75170	Sunaga, Hiromi	75285		75220
	75364		75292		75263
Sasuga, Tsuneo	75171	Suwa, Takeshi	75062	Takekoshi, Hidekuni ...	75302
	75172		75063	Takeuchi, Hiroshi	75066
	75200		75175	Takeyama, Kikuo*	75113
	75263		75187	Takizuka, Tomonori	75067
Sato, Sadao	75344		75188	Tamura, Naoyuki	75007
Sato, Shin*	75158	Suzaki, Takenori	75343		75054
	75164	Suzuki, Hiroshi	75303		75105
Sato, Shoichi	75173	Suzuki, Kunihiko	75344		75175
	75174	Suzuki, Michiaki*	75296		75176
	75182	Suzuki, Motoe	75311		75177
	75345	Suzuki, Nobutake	75139		75227
	75349		75140		75289
Sato, Tomotaro	75274		75189	Tamura, Sanae	75068
	75275		75190	Tamura, Shuzo	75201
	75277		75191	Tanaka, Kichizo	75290
	75278		75192	Tanaka, Masatoshi	75058
	75289		75193		75075
Satoh, Sadao	75232		75194		75076
Satoh, Takao	75358	Suzuki, Norio	75037		75077
Seguchi, Tadao	75062		75300	Tanaka, Ryuichi	75284
	75175		75350		75285
	75176		75379		75287
	75177	Suzuki, Seishiro*	75363		75289
Seki, Masahiro	75244	Suzuki, Tadakazu	75064		75292
Seki, Yasushi	75043		75326		75367
	75056	Suzuki, Tomio	75152	Tanaka, Shigeya	75096
	75090	Suzuki, Tomoo	75321		75099
	75290	Suzuki, Yasuo	75021	Tanaka, Shun-ichi	75364
	75329		75022	Tani, Keiji	75068
Sekine, Keiichi	75178		75045	Tani, Youtaro*	75312
	75272		75046	Tasaka, Kanji	75089
Sekine, Toshiaki	75179		75065		75097
Senoo, Muneaki	75291				75098
Senrui, Shiro*	75180				75368
Shiba, Koreyuki	75181				75387
Shiba, Masayoshi	75300			Tateno, Jun	75199
	75350			Tazima, Teruhiko	75015
Shibata, Katsuyuki	75264	Tabata, Toshio	75303	Terada, Hiromi	75336
Shiina, Yasuaki	75244	Tabata, Yoneho*	75139		75360
Shimada, Takashi*	75265	Tachibana, Hiroyuki ...	75289		75361
Shimamune, Hiroji	75300	Tachikawa, Enzo	75166		75362
Shimano, Yasunao*	75163		75195		75363
Shimizu, Saburo	75174		75196	Tobita, Tsutomu	75339
	75182	Tachikawa, Noboru	75291	Toda, Saburo*	75300
	75349	Tachimori, Syoichi	75197	Toi, Kazuo	75069
		Tadokoro, Yoshihiro ...	75351	Toita, Yukio	75202
Shimizu, Yuichi	75183	Tagawa, Hiroaki	75198	Tojo, Takao	75286
Shimokawa, Junichi	75351		75199	Tokunaga, Okihiko	75203
Shimomura, Yasuo	75009		75254		75345
	75025	Taji, Yukichi	75064		75026
	75026		75326		

Tokutake, Toshikuni ... 75050
 75057
 Tomimitsu, Hiroshi 75070
 75204
 75243
 Tominaga, Hiroshi 75291
 Tomita, Yoshiaki 75099
 Tomizawa, Toshi* 75101
 Tone, Hirohito 75205
 75352
 Tone, Tatsuzo 75353
 75354
 Torikai, Kinichi 75237
 Toyoshima, Noboru 75342
 Tsuchihashi, Keiichiro 75325
 Tsuchiya, Akiko 75168
 Tsuchiya, Atsushi* 75275
 Tsujimura, Shigeo 75131
 75132
 75160
 Tsujino, Takeshi 75206
 75207
 Tsukamoto, Yoshinori* . 75208
 Tsuruta, Harumichi 75343
 Tsuruta, Shin-ichiro* . 75084
 Tsutsui, Tsuneo 75331
 Tuda, Takasi 75071
 75072
 75073
 75074
 75075
 75076
 75077
 Turuno, Akira 75303

U

Ueda, Yoshiyumi* 75024
 Ueno, Kaoru 75209
 75210
 75324
 Uga, Takeo 75296
 Ugajin, Mitsuhiro 75211
 75212
 Umeda, Keiji* 75276
 Umezawa, Hirokazu 75343
 Ushirokawa, Masahiro* . 75144
 Usui, Hozumi 75386

W

Wada, Nobuo 75213
 Wada, Takeshi 75103
 75214
 75215
 75216
 75217
 75218
 Wadachi, Yoshiki 75143
 75373
 75374
 Wakatani, Masahiro 75051
 75058
 75078
 75079
 75080
 Wakita, Hiroshi* 75156
 Washino, Masamitsu 75145
 75146
 75167
 75192
 Watanabe, Hideaki 75315
 Watanabe, Hiromasa 75293
 Watanabe, Hiroshi 75277
 75278
 75279
 Watanabe, Kenju 75210
 Watanabe, Koichi 75386
 Watanabe, Terutaka 75215
 75216
 75217
 75218

Y

Yabe, Akira 75369
 Yagi, Eiji* 75324
 75356
 Yagi, Hideyuki 75116
 75380
 Yagi, Toshiaki 75110
 75114
 75115
 75219
 75220
 Yahata, Taneaki 75270
 Yamada, Eikichi* 75280
 Yamada, Rayji 75310
 75311
 Yamada, Tadanori 75342
 Yamada, Takayuki 75380
 Yamagishi, Hideo 75369
 Yamagishi, Kojiro 75315
 Yamaguchi, Hiroshi 75286
 Yamaguchi, Kouichi 75208
 75219
 75220
 Yamahara, Takeshi 75304
 Yamaki, Jikei 75304
 Yamamoto, Nobuo 75300
 75350
 Yamamoto, Tadashi 75221
 Yamato, Harumi* 75038
 Yamazaki, Hiroshi* 75288
 Yamazaki, Yasaburo 75305
 75306
 Yamazoe, Hiroshi* 75339
 Yasu, Syozo* 75206
 Yasukawa, Shigeru 75351
 Yasukawa, Sigeru 75324
 Yasuno, Takehiko 75351
 Yatsu, Kiyoshi* 75081
 Yoda, Osamu 75054
 75230
 Yokoo, Hiroshi 75342
 75357
 Yokotsuka, Koki* 75279
 Yokouchi, Ichiro 75352
 Yonemochi, Junzo* 75136
 Yoshida, Hideyo 75119
 75120
 Yoshida, Hiroyuki 75327
 75328
 Yoshida, Kenzo 75298
 Yoshida, Masaru 75153
 75222
 75223
 75224
 75225
 Yoshida, Tadashi* 75100
 75388
 Yoshida, Yoshikazu 75040
 75282
 75283
 Yoshida, Zenko 75226
 Yoshii, Fumio 75138
 75227
 75228
 75229
 75230
 Yoshikawa, Masaji 75014
 75039
 Yoshizawa, Isao* 75018
 75019
 Yoshizawa, Iwao 75110
 75114

CORPORATE AUTHOR INDEX

- Div. of Health Physics and safety
75398
- Div. of JMTR Project
75233
- Div. of Reactor Engineering
75389
75390
- Div. of Research Reactor Operation
75391
- Div. of Technical Information
75392
75393
- Health Physics and Safety Sect.
75398
- Japanese Nuclear Data Comm.
75088
- Office of Safety and Control, Tokyo
75398
- Osaka Lab. for Radiation Chemistry
75165
75399
- Reactor safety Lab. 1
75347
75348
- Safety Sect., Takasaki
75398
- Waste Management and Decontamination
Sect., Oarai
75398

Patents

German Patents

Pat-G-28	Process of preparing chlorinated hydrocarbons. Danno H., et al.,	No.1543084
Pat-G-29	Circuit arrangements for flattening an energy response of a scintillation counter in bias modulation of a crest discriminator. Moriuchi S.,	No.1489030
Pat-G-30	Process for recovering uranium as uranium dioxide. Ishimori T., et al.,	No.1667846

Japanese Patents

Pat-J-507	Brazing alloy on carbonic materials-metals bonding. Fujimura T., et al.,	No.724342
Pat-J-508	Measurement method for gas temperature. Hiramoto T.,	No.726106
Pat-J-509	Nuclear fuel assembly. Miyamoto Y., et al.,	No.1037652
Pat-J-510	A tubular heater. Sako K., et al.,	No.1039715
Pat-J-511	Production method of actinide amalgam. Ishimori T., et al.,	No.731448
Pat-J-512	Handling tool for manipulator's nail. Morishima A., et al.,	No.735120
Pat-J-513	Production method of radioactive iodine. Shikata E., et al.,	No.735173
Pat-J-514	Portable capsul opener. Sato H.,	No.1046761
Pat-J-515	Thermal stress reduction mechanism for pipe. Torikai K.,	No.1049622
Pat-J-516	Separation method for gas containing fluorine. Tsujimura S., et al.,	No.743612
Pat-J-517	Electric current-electric frequency converter. Kumahara T., et al.,	No.743591

Pat-J-518	Regeneration circuit for direct current level. Kinbara S.,	No.1055239
Pat-J-519	Cutter ring. Kumagai K.,	No.1055207
Pat-J-520	Calorimetry utilizing thermal resistance of vacuum. Hayashi T.,	No.747127
Pat-J-521	Electromagnetic flowmeter. Hayashi T.,	No.1060286
Pat-J-522	Adjuster of balance weights. Kimura K., et al.,	No.750241
Pat-J-523	Inlet structure of fast reactor coolant. Abe Y., et al.,	No.1066604
Pat-J-524	Electric heater. Sako K., et al.,	No.755610
Pat-J-525	Prevention method for Na fire. Furukawa K., et al.,	No.758156
Pat-J-526	Electric heater for fast reactor designing. Sako K., et al.,	No.1070526
Pat-J-527	Imitation heater of nuclear fuel rod. Toda S., et al.,	No.760355
Pat-J-528	Resin injection apparatus for irradiated material. Baba S., et al.,	No.1072036
Pat-J-529	Area measuring tool. Yamazaki T.,	No.1073043
Pat-J-530	Polyolefin compositions. Kagiya T., et al.,	No.726246
Pat-J-531	Process for preparing of resins with ionizing radiation. Gotoda M., et al.,	No.727109
Pat-J-532	Process for preparing of vinyl chlorides-ethylene chlorides co-polymer. Kagiya T., et al.,	No.729113
Pat-J-533	Cross-linking method of ethylene fluorides- propylene fluorides co-polymer. Tabata Y., et al.,	No.730269

Pat-J-534	Cross-linking method of ethylene fluorides-propylen fluorides co-polymer. Tabata Y., et al.,	No.730270
Pat-J-535	Process for preparing of ethylene fluorides-propylen fluorides co-polymer. Yamamoto T., et al.,	No.731075
Pat-J-536	Effective cross-linking method of ethylene fluorides-propylen fluorides co-polymer. Tabata Y., et al.,	No.731076
Pat-J-537	Graft polymerization method of vinyl chloride polymer. Kageyama E., et al.,	No.731449
Pat-J-538	Graft polymerization method of vinyl chloride polymer. Kageyama E., et al.,	No.731450
Pat-J-539	Improvement method of vinyl chloride polymer with radiation cross-linking polymerization. Mitsui M., et al.,	No.731451
Pat-J-540	Polymerization method of tetraoxane. Nakase Y., et al.,	No.731156
Pat-J-541	Transfer mechanism of filmy matter. Tanaka S., et al.,	No.733202
Pat-J-542	Polymerization method of tetraoxane. Nakase Y., et al.,	No.733201
Pat-J-543	Process for preparing of polyester board. Kasamatsu T., et al.,	No.734452
Pat-J-544	Catalytic polymerization method. Nakase Y., et al.,	No.737928
Pat-J-545	Flow control method of high pressure fluid. Takehisa M., et al.,	No.739331
Pat-J-546	Improvement method for preparing of resins containing chlorine. Kagiya T., et al.,	No.741847
Pat-J-547	Improvement method for preparing of polyethylene. Araki K., et al.,	No.743640

Pat-J-548	Cross-linking method of ethylene fluorides-propylene fluorides co-polymer. Tabata Y., et al.,	No.745616
Pat-J-549	Polymerization method with ionizing radiation. Mitsui M., et al.,	No.747204
Pat-J-550	Process for preparing of resins with ionizing radiation cross-linking polymerization. Mitsui M., et al.,	No.747150
Pat-J-551	Process for preparing of co-polymer. Hagiwara M., et al.,	No.747221
Pat-J-552	Process for stability of oxymethylene polymer. Ito Akihiko., et al.,	No.748414
Pat-J-553	Powder for fingerprint detection. Okada M., et al.,	No.750980
Pat-J-554	Process for preparing of isocyanic acids-methyl methacrylates co-polymer. Hirai H.,	No.754766
Pat-J-555	Process for preparing of wood-plastic. Hotta H., et al.,	No.760332
Pat-J-556	Process for preparing of vinyl chlorides with ionizing radiation. Mitsui M., et al.,	No.760406
Pat-J-557	Improvement method for preparing of polyolefines with ionizing radiation. Mitsui M., et al.,	No.762843
Pat-J-558	Improvement method for preparing of polyolefines with ionizing radiation. Mitsui M., et al.,	No.762844
Pat-J-559	Improvement method for preparing of polyolefines with ionizing radiation. Mitsui M., et al.,	No.763083
U. S. Patents		
Pat-US-75	Pressure tube type heavy-water moderated power reactor. Yasukawa S., et al.,	No.3801443

Pat-US-76	Process for chemical vapor deposition of zirconium carbide. Ikawa K., et al.,	No.3804664
Pat-US-77	Glass processing lathe. Matsuzawa K., et al.,	No.3810748
Pat-US-78	Pulse-shape discrimination circuit. Kinbara S.,	No.3818356
Pat-US-79	A method of making uranium sesqui-carbide. Tagawa H., et al.,	No.3836631
Pat-US-80	Method of purifying sodium metal. Furukawa K., et al.,	No.3854933
Pat-US-81	Radiation grafting of vinyl monomers onto cellular polymeric substrates. Kagiya T., et al.,	No.3816284
Pat-US-82	Process for the preparation of oxymethylen polymers in the presence of an acyclic acetal and a cyclic acetal. Ito A., et al.,	No.3830715
Pat-US-83	Acceleration of cross-linking in by polyolefins applied radiation in a gaseous atmosphere of fluorine-containing monomer and acetylene. Kagiya T., et al.,	No.3835004
Pat-US-84	Process for preparing of polytetrafluoro-ethylene resin wax. Kagiya T., et al.,	No.3838030
Pat-US-85	Calcium sulfite compositions for plastic composite. Machi S., et al.,	No.3832207
Pat-US-86	Method for cross-linking co-polymer of tetrafluoro-ethylene and propylene by ionizing radiation. Tabata Y., et al.,	No.3846267
Pat-US-87	Novel polybutadiene derivative curable with ionizing radiation. Araki K., et al.,	No.3855379
Pat-US-88	Novel process for preparing oxymethylene polymer. Yoshida M., et al.,	No.3860562

Pat-US-89	Process for removing noxious gas pollutants from effluent gases by irradiation. Machi S., et al.,	No.3869362
Pat-US-90	Plywood comprising ionizing radiation cured cross-linking diallyl phthalate acrylonitrile polymer and method of making. Gotoda M., et al.,	No.3869341
Pat-US-91	Gypsum compositions for gypsum-thermoplastic composite. Takehisa M., et al.,	No3873492

Availability of Japanese Nuclear Literature

NUCLEAR SCIENCE INFORMATION OF JAPAN is prepared and distributed over the world by the JAERI. It is a bi-monthly and secondary periodical which contains bibliographic references for current documents of nuclear research and development in Japan. Communication related to the NSIJ must be directed to the Division of Technical Information of JAERI.

To obtain the literature cited in the NSIJ, requests should be made to the following.

- a. For reprints or copies of literature, to the authors or respective publishers.
- b. For microfiches of non-conventional literature which falls into the INIS subject scope, to the IAEA.
- c. For microfilms of literature, to Japan Information Center of Science and Technology, P. O. Box 1478, Chuo-Yubin-Kyoku, Tokyo 100-91, Japan.
- d. For translation of Japanese articles into English, to the JICST
Translations into other languages are also available upon request.

You are invited to contact with the JICST.