

Technical Publications
by JAERI Staff

from January 1976
to December 1976

November 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 1976 to December 1976

Technical Publications by JAERI Staff from January 1976 to December 1976

Approximately 400 journal articles, papers at meetings, reports and books are given, which have been published by personnel of JAERI from January 1976 to December 1976. 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.

November 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 (1976年1月→1976年12月)

1976年1月から1976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11月

日 本 原 子 力 研 究 所
技 術 情 報 部

Table of Contents

General Physics	1
Neutron and Nuclear Physics	9
Chemistry	11
Materials	18
Earth Sciences	20
All Effects and Various Aspects of External Radiation in Biology .	20
Applied Life Sciences	20
Health, Safety and Environment	21
Isotopes and Radiation Source	23
Isotope and Radiation Applications	23
Engineering	23
Nuclear Reactors (General)	24
Reactor Types	27
Instrumentation	30
Waste Management	32
Economics	33
Nuclear Documentation	33
Mathematical Methods and Computer Codes	33
Miscellaneous	36
Personal Author Index	37
Corporate Author Index	43
Report Number Index	44
Patents	46

Subject Categories

A00 PHYSICAL SCIENCES

A10 GENERAL PHYSICS

- A11 Mathematical and General Theoretical Physics
- A12 Atomic and Molecular Physics
- A13 Solid-State and Fluid Physics
- A14 Plasma Physics and Thermonuclear Reactions
- A15 Astrophysics and Cosmology, Cosmic Radiation
- A16 Direct Energy Conversion
- A17 Low-Temperature Physics

A20 HIGH ENERGY PHYSICS

- A21 Elementary Particles (Theory)
- A22 Elementary Particles (Experimental)

A30 NEUTRON AND NUCLEAR PHYSICS

- A31 Neutron Physics
- A32 Radiation Physics
- A33 Nuclear Theory
- A34 Nuclear Properties and Reactions

B00 CHEMISTRY, MATERIALS AND EARTH SCIENCES

B10 CHEMISTRY

- B11 Chemical and Isotopic Analysis
- B12 Inorganic, Organic and Physical Chemistry
- B13 Radiochemistry and Nuclear Chemistry
- B14 Radiation Chemistry
- B15 Corrosion
- B16 Fuel Processing and Reprocessing

B20 MATERIALS

- B21 Metals and Alloys (Production and Fabrication)
- B22 Metals and Alloys (Physical Properties and Structure)
- B23 Ceramics and Cermets
- B24 Other Materials
- B25 Radiation Effects on Physical Properties of Materials

B30 EARTH SCIENCES

- B31 Land
- B32 Water
- B33 Atmosphere

C00 LIFE SCIENCES

C10 ALL EFFECTS AND VARIOUS ASPECTS OF EXTERNAL RADIATION IN BIOLOGY

- C11 Effects of External Radiation on Biochemicals and Cell and Tissue Cultures
- C12 Effects of External Radiation on Microorganisms
- C13 Effects of External Radiation on Plants
- C14 Effects of External Radiation on Animals
- C15 Effects of External Radiation on Man

C20 RADIONUCLIDE EFFECTS AND KINETICS

- C21 Toxicology, Tissue Distribution, Metabolism and Removal of Radionuclides
- C22 Radionuclide Ecology

C30 TRACER STUDIES IN LIFE SCIENCES

- C31 Novel Tracer Techniques

C40 APPLIED LIFE SCIENCES

- C41 Plant Cultivation and Breeding
- C42 Pest and Disease Control
- C43 Food Protection and Preservation
- C44 Animal Husbandry
- C45 Other Applications of Radiations and Radioisotopes in the Life Sciences

C50 HEALTH, SAFETY AND ENVIRONMENT

- C51 Radiation Hazards
- C52 Safety Evaluations and Environmental Aspects of Nuclear Installations
- C53 Radiation Protection Standards
- C54 Radiation Protection Procedures

D00 ISOTOPES, ISOTOPE AND RADIATION APPLICATIONS

D10 ISOTOPES AND RADIATION SOURCES

- D11 Production of Enriched Uranium
- D12 Production of Heavy Water
- D13 Other Isotopes 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

E00 ENGINEERING AND TECHNOLOGY

E10 ENGINEERING

- E11 Thermodynamics and Fluid Flow
- E12 Cryogenics
- E13 Structures and Equipment
- E14 Nuclear Explosions
- E15 Facilities for Handling of Radioactive Materials
- E16 Accelerators (whether for Particle Research or not)
- E17 Materials Testing

E20 NUCLEAR REACTORS (GENERAL)

- E21 Reactor Theory and Calculation
- E22 Reactor Components and Accessories
- E23 Reactor Fuels
- E24 Reactor Control Systems

E30 REACTOR TYPES

- E31 Power Reactors, Non-Breeding, Light-Water Moderated, Boiling Water Cooled (BWR etc. types)
- E32 Power Reactors, Non-Breeding, Light-Water Moderated, Non-Boiling Water Cooled (PWR etc. types)
- E33 Power Reactors, Non-Breeding, Graphite-Moderated (GCR, AGR, HTGR etc. types)
- E34 Power Reactors, Non-Breeding, Otherwise Moderated or Unmoderated
- E35 Power Reactors, Breeding
- E36 Research and Test Reactors, including Experimental Reactors (Zero Power Reactors and Sub-critical Assemblies) and Training Reactors
- E37 Production Reactors (Producing Fissionable Materials), Irradiation Reactors such as Chemonuclear Reactors, Isotope Production Reactors, Tritium Production Reactors, Materials Testing Reactors, Material Processing Reactors
- E38 Mobile, Propulsion, Transportable and Package Reactors

E40 INSTRUMENTATION

- E41 Particle and Radiation Detection and Measuring Instruments and Methods
- E42 Other Nuclear Instrumentation and Methods of Measurement
- E43 Radiation Effects on Instruments, Components or Electronic Devices

E50 WASTE MANAGEMENT

- E51 Waste Treatment
- E52 Waste Disposal

F00 OTHER ASPECTS OF NUCLEAR ENERGY

F10 ECONOMICS

- F11 Nuclear Power Economics
- F12 Reactor Fuel Economics
- F13 Economics of Isotope and Radiation Applications

F20 NUCLEAR LAW

- F21 Radioactive Materials
- F22 Nuclear Installations
- F23 Radiation Health
- F24 Transport and Storage of Radioactive Materials
- F25 Liability for Nuclear Damage
- F26 Nuclear Ships and other Nuclear Means of Conveyance
- F27 Organization and Administration of Nuclear Activities
- F28 Nuclear Disarmament and Safeguards

F30 NUCLEAR DOCUMENTATION

- F31 Data Handling
- F32 Literature Handling

F40 SAFEGUARDS AND INSPECTION

- F41 Technical Aspects
- F42 Non-Technical Aspects

F50 MATHEMATICAL METHODS AND COMPUTER CODES

- F51 Nuclear Computation and Simulation

F60 MISCELLANEOUS

- F61 General Relevant Documents
- F62 Progress Reports

GENERAL PHYSICS

- 76001 Standard positions of the poloidal coils in large tokamak JT-60. (In Japanese).
— Aikawa, Hiroshi; Ninomiya, Hiromasa; Kameari, Akihisa*; Suzuki, Yasuo.
— JAERI-M--6552. May 1976. 36 p.
- 76002 A method of solving the rate equations.
— Amano, Tsuneo*; Okamoto, Masao.
— JAERI-M--6401. Feb 1976. 31 p.
- 76003 Compressibility and first order characteristics of mott transition in NiS.
— Anzai, Shuichiro*; Ozawa, Kunio.
— 4. International Conference on High Pressure. Kyoto, Japan. 25 Nov 1974.
— *Proceedings of the 4. International Conference on High Pressure*. p. 288-294. 1975.
- 76004 Space-time correlation functions in quantal and classical binary mixtures, 2. Liquid metals as coupled electron-ion systems.
— Chihara, Junzo.
— *Progr. Theor. Phys. (Kyoto)*. v. 55(2) p. 340-355. (1976).
- 76005 JT-4 program. (In Japanese).
— Div. of Large Tokamak Development.
— JAERI-M--6666. Aug 1976. 265 p.
- 76006 Annual report of the Division of Thermonuclear Fusion Research, JAERI. Covering the period of April 1, 1974 to March 31, 1975.
— Div. of Thermonuclear Fusion Research.
— JAERI-M--6359. Jan 1976. 163 p.
- 76007 Profile analysis of amorphous haloes by means of a Fourier transformation, with special reference to the structures of amorphous Pt-C and Ni-P.
— Doi, Kenji.
— *J. Appl. Crystallogr. (DK)*. v. 9(pt.5) p. 382-390. (1976).
- 76008 Energy loss of 1000 keV electrons in thin silicon crystals as measured by high voltage electron microscopy.
— Doi, Kenji; Izui, Kazuhiko; Ohtsu, Hitoshi; Tomimitsu, Hiroshi.
— *Radiat. Eff. (UK)*. v. 26(1-2) p. 129-133. (1975).
- 76009 Beryllium double K x-ray emission by proton and helium ion bombardment.
— Fujimoto, Fuminori*; Kawatsura, Kiyoshi; Ozawa, Kunio; Terasawa, Michitaka*.
— *Phys. Lett., A (NL)*. v. 57A(3) p. 263-264. (1976).
- 76010 Energy transfer rate of a charged particle as a function of injection angle. (In Japanese).
— Fujisawa, Takeo.
— JAERI-M--6384. Jan 1976. 12 p.
- 76011 Spin-wave dispersion relations in $Mn_{2-x}Cr_xSb$.
— Funahashi, Satoru; Kazama, Noriaki*.
— *J. Phys. Soc. Jap.* v. 41(3) p. 811-816. (1976).

- 76012 Fundamentals of fusion reactor blanket chemistry, 1. Summary. (In Japanese).
 — Furukawa, Kazuo.
 — JAERI-M--6684. Aug 1976. 25 p.
- 76013 Defect clusters in germanium crystals irradiated with electrons in a high voltage electron microscope.
 — Furuno, Shigemi; Izui, Kazuhiko; Otsu, Hitoshi.
 — *Jpn. J. Appl. Phys.* v. 15(5) p. 889-890. (1976).
- 76014 Preliminary design of an experimental fusion reactor. Interim report. (In Japanese).
 — Fusion Reactor System Lab.
 — JAERI-M--6670. Aug 1976. 193 p.
- 76015 Phenomenological theory of an isomorphous transition in polar crystals. Application to the II-III transition in ferroelectric $\text{Ca}_2\text{Pb}(\text{C}_2\text{H}_5\text{COO})_6$.
 — Gesi, Kazuo.
 — *J. Phys. Soc. Jpn.* v. 40(2) p. 483-489. (1976).
- 76016 Change in the order of the phase transition in ferroelectric triglycine selenate at high pressures.
 — Gesi, Kazuo; Ozawa, Kunio.
 — *J. Phys. Soc. Jpn.* v. 40(2) p. 599-600. (1976).
- 76017 Dielectric study on the phase transitions in triglycine selenate-deuterated triglycine selenate system.
 — Gesi, Kazuo.
 — *J. Phys. Soc. Jpn.* v. 41(2) p. 565-569. (1976).
- 76018 Pressure-induced ferroelectricity in $(\text{NH}_4)_3\text{H}(\text{SO}_4)_2$.
 — Gesi, Kazuo.
 — *J. Phys. Soc. Jpn.* v. 41(4) p. 1437-1438. (1976).
- 76019 Dielectric study on the phase transitions in triammonium hydrogen disulfate $(\text{NH}_4)_3\text{H}(\text{SO}_4)_2$.
 — Gesi, Kazuo.
 — *Phys. Status Solidi A (DD)*. v. 33(2) p. 479-482. (1976).
- 76020 An estimate of low-Z materials for the first wall of JT-60. (In Japanese).
 — Gomay, Yoshio*; Nomura, Shinzo; Fukuda, Kousaku; Nakamura, Hiroo; Muraoka, Susumu.
 — JAERI-M--6432. Mar 1976. 100 p.
- 76021 The study of discharge cleaning in the JFT-2 tokamak with surface observation by AES.
 — Gomay, Yoshio*; Tazima, Teruhiko; Fujisawa, Noboru; Suzuki, Norio; Konoshima, Shigeru.
 — JAERI-M--6647. Jul 1976. 16 p.
- 76022 Evaluation of neutron streaming through injection ports in a tokamak-type fusion reactor.
 — Ide, Takahiro*; Seki, Yasushi; Iida, Hiromasa.
 — JAERI-M--6475. Mar 1976. 18 p.

- 76023 Calculation of the neutron radiation damage in D-T fusion reactor materials. (In Japanese).
 — Ide, Takahiro*; Seki, Yasushi; Iida, Hiromasa.
 — JAERI-M--6672. Aug 1976. 41 p.
- 76024 Neutronics of the blanket in a JAERI experimental fusion reactor. (In Japanese).
 — Iida, Hiromasa; Seki, Yasushi; Ide Takahiro*.
 — JAERI-M--6460. Mar 1976. 21 p.
- 76025 Induced activity and dose rates in the JAERI Experimental Fusion Reactor (JXFR). (In Japanese).
 — Iida, Hiromasa; Seki, Yasushi; Ide, Takahiro*.
 — JAERI-M--6639. Jul 1976. 49 p.
- 76026 Monte Carlo analysis of the neutral particle transport in torus plasma. (In Japanese).
 — Inoue, Shuji; Suzuki, Tadakazu; Taji, Yukichi; Nakahara, Yasuaki.
 — JAERI-M--6777. Nov 1976. 30 p.
- 76027 Self-similar analysis of the spherical implosion process.
 — Ishiguro, Yukio; Katsuragi, Satoru.
 — JAERI-M--6616. Jul 1976. 33 p.
- 76028 Estimation of shot noise of photomultiplier for ruby laser Thomson scattering measurement. (In Japanese).
 — Itagaki, Tokiyoshi*; Matoba, Tooru; Kumagai, Katsuaki; Funahashi, Akimasa.
 — JAERI-M--6476. Mar 1976. 23 p.
- 76029 Frequency characteristics of the horizontal motion of a JT-60 plasma column.
 — Kambayashi, Yuichiro.
 — JAERI-M--6508. Apr 1976. 114 p.
- 76030 Computing code for the positioning of poloidal coils using a graphic display. (In Japanese).
 — Kameari, Akihisa*; Ninomiya, Hiromasa; Aikawa, Hiroshi; Suzuki, Yasuo.
 — JAERI-M--6324. Nov 1975. 29 p.
- 76031 Eddy current induced on the resistive shell with cuts. (In Japanese).
 — Kameari, Akihisa*; Aikawa, Hiroshi*; Ninomiya, Hiromasa; Suzuki, Yasuo.
 — JAERI-M--6468. Mar 1976. 26 p.
- 76032 Measurements of Balmer H α -line emitted from tokamak plasmas in JFT-2a device.
 — Kasai, Satoshi; Funahashi, Akimasa; Sugie, Tatsuo.
 — JAERI-M--6662. Aug 1976. 23 p.
- 76033 Spectroscopic investigations of the vacuum ultra-violet emission in a normal-incidence region from JFT-2 tokamak discharge. $B_t = 9$ kGauss and $I_p = 76$ kAmp.
 — Kasai, Satoshi; Funahashi, Akimasa; Tazima, Teruhiko; Nakamura, Yukiharu*.
 — JAERI-M--6761. Oct 1976. 38 p.
- 76034 K-shell ionization of boron induced by light ions bombardment.
 — Kawatsura, Kiyoshi; Ozawa, Kunio; Fujimoto, Fuminori*; Terasawa, Michitaka*.
 — International Conference on Ion Beam Surface Layer Analysis. Karlsruhe. 15 Sep 1975.
 — *Ion Beam Surface Layer Analysis, Plenum Pub. Corp.* v. 2 p. 719-725. (1976).

- 76035 Multiple inner-shell ionization in oxygen produced by ion bombardment in the MeV range.
 — Kawatsura, Kiyoshi; Ozawa, Kunio; Fujimoto, Fuminori*; Terasawa, Michitaka*.
 — *Phys. Lett., A (NL)*. v. 58(7) p. 446-448. (1976).
- 76036 Vapor pressure of lithium oxide and dissociation pressure of lithium hydroxide. Review. (In Japanese).
 — Kikuchi, Takeo.
 — JAERI-M--6558. Jun 1976. 20 p.
- 76037 Optimum design of the poloidal field coils of a large fusion device. (In Japanese).
 — Kobayashi, Tomofumi*; Tani, Keiji; Takeda, Tatsuoki; Kobayashi, Tetsuro*; Shimada, Ryuiti; Tamura, Sanae; Yoshida, Yoshikazu*.
 — JAERI-M--6451. Mar 1976. 62 p.
- 76038 Growth of fine holes in polyethylenenaphthalate film irradiated by fission fragments.
 — Komaki, Yoshihide; Tsujimura, Shigeo.
 — *J. Appl. Phys. (US)*. v. 47(4) p. 1355-1358. (1976).
- 76039 Two-dimensional simulation of the MHD stability, (1).
 — Kurita, Gen-ichi*; Amano, Tsuneo*.
 — JAERI-M--6474. Mar 1976. 14 p.
- 76040 Preliminary results of integral experiment on fusion-fission hybrid blanket assemblies.
 — Maekawa, Hiroshi; Seki, Yasushi.
 — JAERI-M--6495. Mar 1976. 11 p.
- 76041 A delay circuit for constant current operation of JFT-2. (In Japanese).
 — Maeno, Masaki; Matsuzaki, Yoshimi; Fujisawa, Noboru.
 — JAERI-M--6762. Oct 1976. 14 p.
- 76042 A low-temperature glass cryostat for X-ray diffraction work.
 — Maeta, Hiroshi; Kato, Teruo; Okuda, Shigeo.
 — *J. Appl. Crystallogr. (DK)*. v. 9(pt. 5) p. 378-381. (1976).
- 76043 Comparison in electron density distribution of tokamak plasma between ruby-laser scattering and milli-meter wave interferometric measurements.
 — Matoba, Tohru; Funahashi, Akimasa; Itagaki, Tokiyoshi; Takahashi, Koki; Kumagai, Katsuaki; Yamauchi, Toshihiko.
 — JAERI-M--6685. Aug 1976. 21 p.
- 76044 Experimental evaluation of electron heat conductivity in high-temperature tokamak plasmas. (In Japanese).
 — Matoba, Tohru; Funahashi, Akimasa.
 — JAERI-M--6720. Sep 1976. 22 p.
- 76045 Constitution of the injector test stand (ITS-1) and the preliminary results with model-I ion source. (In Japanese).
 — Matsuda, Shinzaburo; Itoh, Takao*; Kondoh, Umeo*; Ohara, Yoshihiro; Ohga, Tokumichi; Shibata, Takemasa; Shirakata, Hirohumi; Sugawara, Tohru*; Tanaka, Shigeru.
 — JAERI-M--6431. Mar 1976. 29 p.

- 76046 Influence of a minor periodicity on the magnetic island formation in Tokamaks.
 — Matsuda, Shinzaburo.
 — *Jpn. J. Appl. Phys.* v. 14(12) p. 2021-2031. (1975).
- 76047 Current build-up with dynamic magnetic limiter. (In Japanese).
 — Ninomiya, Hiromasa; Kameari, Akihisa*; Suzuki, Yasuo.
 — JAERI-M--6656. Aug 1976. 23 p.
- 76048 Positional instabilities of a plasma in a tokamak with a magnetic limiter.
 — Ninomiya, Hiromasa; Suzuki, Yasuo; Kameari, Akihisa*.
 — *Jpn. J. Appl. Phys.* v. 15(11) p. 2201-2210. (1976).
- 76049 Application of paracrystalline-lattice theory to the analysis of the radial distribution function of amorphous region in polyethylene.
 — Odajima, Akira*; Yamane, Shigeru*; Yoda, Osamu; Kuriyama, Isamu.
 — *Rep. Prog. Polym. Phys. Jpn.* v. 18 p. 207-210. (1975).
- 76050 Servo-control of plasma position and cross section in JT-60, 2. (In Japanese).
 — Ogata, Atsushi; Ninomiya, Hiromasa; Kameari, Akihisa*; Aikawa, Hiroshi*; Noda, Nobuaki*; Suzuki, Yasuo.
 — JAERI-M--6323. Nov 1975. 35 p.
- 76051 Proposal of a vertical field control method in a shell-less tokamak.
 — Ogata, Atsushi; Suzuki, Yasuo.
 — *Jpn. J. Appl. Phys.* v. 15(2) p. 401-402. (1976).
- 76052 Beam focusing in the multiaperture ion sources. (In Japanese).
 — Ohara, Yoshihiro; Matsuda, Shinzaburo; Shirakata, Hirofumi; Tanaka, Shigeru.
 — JAERI-M--6438. Feb 1976. 20 p.
- 76053 Impurity-evolution code IMPHPCG and analysis of the impurity measurements for JFT-2 tokamak.
 — Okamoto, Masao; Amano, Tsuneo*.
 — JAERI-M--6343. Dec 1975. 44 p.
- 76054 Reply to "comment on 'free migration of interstitials in tungsten' ".
 — Okuda, Shigeo; Mizubayashi, Hiroshi.
 — *Phys. Rev. Lett. (US)*. v. 35(15) p. 1043-1044. (1975).
- 76055 Anelasticity study of self-interstitials in tungsten.
 — Okuda, Shigeo; Mizubayashi, Hiroshi.
 — *Phys. Rev., B (US)*. v. 13(10) p. 4207-4216. (1976).
- 76056 Semi-classical treatment of symmetric resonant charge transfer between coulomb interacting ions.
 — Ryufuku, Hiroshi; Watanabe, Tsutomu*.
 — *J. Phys. Soc. Jpn.* v. 41(3) p. 991-996. (1976).
- 76057 Behavior of plasma ions near the separatrix in a tokamak with a poloidal divertor. (In Japanese).
 — Saito, Ryuta*; Seki, Shogo; Kitsunozaki, Akio; Matsuda, Toshiaki; Yokomizo, Hideaki*.
 — JAERI-M--6727. Oct 1976. 31 p.

- 76058 Decreases in intensity of exoelectron emission by heavy gamma irradiations.
 — Sasaki, Teikichi.
 — *J. Appl. Phys. (US)*. v. 47(5) p. 2241-2242. (1976).
- 76059 ESR study on thermally stimulated exoelectron emission from irradiated K_2SO_4 .
 — Sasaki, Teikichi.
 — *Phys. Status Solidi B (DD)*. v. 34(1) p. 339-346. (1976).
- 76060 Measurements of plasma energy losses to the wall in JFT-2. (In Japanese).
 — Sato, Tadashi*; Hirayama, Toshio; Maeno, Masaki; Fujisawa, Noboru.
 — JAERI-M--6577. Jun 1976. 16 p.
- 76061 Gas production rates in lithium oxide of fusion reactor blanket.
 — Seki, Yasushi.
 — *J. Nucl. Sci. Technol. (Tokyo)*. v. 12(12) p. 769-772. (1975).
- 76062 Preliminary analysis of absolute fission-rate measurement in lithium and hybrid fusion blanket assemblies.
 — Seki, Yasushi; Maekawa, Hiroshi.
 — *J. Nucl. Sci. Technol. (Tokyo)*. v. 13(5) p. 272-275. (1976).
- 76063 Evaluation of shielding design for superconducting magnets, (2). Study on the deep penetration problem. (In Japanese).
 — Seki, Yasushi; Iida, Hiromasa; Ide, Takahiro*.
 — JAERI-M--6540. May 1976. 26 p.
- 76064 Neutronics design of fusion reactors and application of blanket neutronics experiment to the design. (In Japanese).
 — Seki, Yasushi.
 — JAERI-M--6726. Oct 1976. 145 p.
- 76065 Evaluation of shielding design for superconducting magnets, (3). Shielding design of the experimental fusion reactor. (In Japanese).
 — Seki, Yasushi; Iida, Hiromasa; Ide, Takahiro*.
 — JAERI-M--6783. Nov 1976. 69 p.
- 76066 Transient current distribution on a vacuum vessel of a large tokamak. (In Japanese).
 — Shimada, Ryuiti; Tani, Keiji; Tamura, Sanae; Kobayashi, Tomofumi*; Kobayashi, Tetsuro*; Yoshida, Yoshikazu*.
 — JAERI-M--6469. Mar 1976. 20 p.
- 76067 Engineering problems in D.C circuit breakers. (In Japanese).
 — Shimada, Ryuiti; Tani, Keiji; Tamura, Sanae; Kobayashi, Tomofumi*; Kobayashi, Tetsuro*; Yoshida, Yoshikazu*.
 — JAERI-M--6646. Aug 1976. 27 p.
- 76068 Determination of the current density in a superconducting magnet viewed in the protection. (In Japanese).
 — Shimamoto, Susumu.
 — JAERI-M--6671. Aug 1976. 6 p.

- 76069 Preliminary results on dynamic magnetic limiter in JFT-2a tokamak.
 — Shimomura, Yasuo; Ohtsuka, Hideo; Maeda, Hikosuke; Yamamoto, Shin; Kimura, Haruyuki; Nagami, Masayuki; Ueda, Noriaki*.
 — JAERI-M--6330. Dec 1975. 7 p.
- 76070 Experiments with a resistive model shell for tokamak apparatus.
 — Sometani, Taro*; Fujisawa, Noboru.
 — JAERI-M--6689. Aug 1976. 19 p.
- 76071 Calculations on neutron irradiation damage in reactor materials. (In Japanese).
 — Sone, Kazuho; Shiraishi, Kensuke.
 — JAERI-M--6358. Jan 1976. 40 p.
- 76072 Effect of molecular weight on the crystalline structure of polytetrafluoroethylene as-polymerized.
 — Suwa, Takeshi; Seguchi, Tadao; Takehisa, Masaaki; Machi, Sueo.
 — *J. Polym. Sci., Polym. Phys. Ed. (US)*. v. 13(11) p. 2183-2194. (1975).
- 76073 Tokamak circuit. (In Japanese).
 — Suzuki, Yasuo; Ogata, Atsushi; Ninomiya, Hiromasa; Aikawa, Hiroshi; Kameari, Akihisa*; Noda, Nobuaki*.
 — JAERI-M--6531. May 1976. 35 p.
- 76074 Design of the movable limiters for JT-60. (In Japanese).
 — Takashima, Tetsuo; Yamamoto, Masahiro; Nakamura, Hiroo; Ohkubo, Minoru; Ohta, Mitsuru; Maeda, Hideto*; Minaguchi, Tadayoshi*; Mori, Hiroyuki*; Okamura, Hiroyuki*; Uchida, Toshio*.
 — JAERI-M--6572. Jul 1976. 61 p.
- 76075 Design and characteristics of the drive mechanism for movable limiters of JT-60, (1). (In Japanese).
 — Takashima, Tetsuo; Morishita, Osamu*; Yamamoto, Masahiro; Shimizu, Masatsugu; Ohta, Mitsuru; Okamura, Hiroyuki*; Minaguchi, Tadayoshi*.
 — JAERI-M--6733. Oct 1976. 24 p.
- 76076 Numerical method for solution of the integral equation of the first kind. Application to analysis of plasma density profile.
 — Takeda, Tatsuoki.
 — *J. Comput. Phys. (US)*. v. 21(3) p. 305-318. (1976).
- 76077 10-channel neutral particle energy analyser apparatus and its application to tokamak plasmas.
 — Takeuchi, Hiroshi; Funahashi, Akimasa; Takahashi, Koki; Shirakata, Hirofumi; Yano, Syukuro*.
 — JAERI-M--6605. Jul 1976. 50 p.
- 76078 Observation of blisters formed on the surface of molybdenum irradiated with Ar⁺ ions at ambient temperature. (In Japanese).
 — Tanaka, Mitsuo; Fukai, Katsumaro; Shiraishi, Kensuke.
 — JAERI-M--6585. Jun 1976. 25 p.
- 76079 Pulsed gas feed to the ion source. (In Japanese).
 — Tanaka, Shigeru; Shibata, Takemasa.
 — JAERI-M--6778. Nov 1976. 12 p.

- 76080 Power supply to the air-core transformer coils of a large tokamak by a multi-stage inductive energy storage system. Optimal design of the electric circuits by a simplex method. (In Japanese).
 — Tani, Keiji; Kobayashi, Tomofumi*; Tazima, Teruhiko; Takeda, Tatsuoki; Shimada, Ryuiti; Kobayashi, Tetsuro*; Tamura, Sanae; Yoshida, Yoshikazu*.
 — JAERI-M--6467. Mar 1976. 32 p.
- 76081 Density distributions of impurities and related energy losses in tokamak plasmas.
 — Tazima, Teruhiko; Inoue, Kenji; Nakamura, Yukiharu*.
 — JAERI-M--6606. Jun 1976. 38 p.
- 76082 Behaviour of Tokamak plasma in the dynamic limiter experiment.
 — Toi, Kazuo*; Takeda, Tatsuoki; Suzuki, Norio; Sugawara, Toru*; Itoh, Satoshi*; Shirakata, Hirofumi; Takahashi, Koki; Yano, Syukuro*.
 — *Nucl. Fusion (XA)*. v. 15(4) p. 637-642. (1975).
- 76083 X-ray topographic studies of copper precipitation behaviour on dislocations in silicon single crystals.
 — Tomimitsu, Hiroshi.
 — *J. Phys. Soc. Jpn.* v. 40(2) p. 505-512. (1976).
- 76084 Preliminary study on power balance in the plasma of an experimental fusion reactor. (In Japanese).
 — Tone, Tatsuzo; Yamato, Harumi*.
 — JAERI-M--6453. Mar 1976. 40 p.
- 76085 Experimental apparatus to investigate interactions of low energy ions with solid surfaces, 1. Summary of the designs.
 — Tsukakoshi, Osamu*; Narusawa, Tadashi*; Mizuno, Masayasu*; Sone, Kazuho; Ohtsuka, Hidewo; Komiya, Souji*.
 — JAERI-M--6331. Dec 1975. 38 p.
- 76086 Decay of poloidal rotation in a Tokamak plasma.
 — Tuda, Takasi.
 — *J. Phys. Soc. Jap.* v. 39(5) p. 1358-1364. (1975).
- 76087 Development of a heat flux meter and measurement of the heat flux to the divertor in DIVA. (In Japanese).
 — Ueda, Noriaki*; Seki, Masahiro; Anno, Katsuto; Kawamura, Hiroshi; Maeda, Hikosuke.
 — JAERI-M--6723. Oct 1976. 33 p.
- 76088 Interstitial fluorine centers in the neutron-irradiated MgF_2 .
 — Ueda, Yoshifumi*; Kazumata, Yukio; Nishi, Masazumi*.
 — *Solid state Commun. (GB)*. v. 19(3) p. 181-183. (1976).
- 76089 Collisional diffusion in Tokamak with a resonant helical field.
 — Wakatani, Masahiro.
 — *Nucl. Fusion (XA)*. v. 15(5) p. 955-957. (1975).
- 76090 Diffusion of an elliptic Tokamak in the plateau regime.
 — Wakatani, Masahiro.
 — *Nucl. Fusion (XA)*. v. 16(1) p. 150-151. (1976).

- 76091 Flux peaking of channeled ions in interstitial compounds NbO and ZrO_{1/3}.
 — Yamaguchi, Sadaei*; Fujino, Yutaka*; Ozawa, Kunio; Doi, Kenji; Takahashi, Junzo*; Koiwa, Masahiro*; Hirabayashi, Makoto*.
 — *Phys. Lett., A (NL)*. v. 57(5) p. 460-462. (1976).
- 76092 Basic plasma parameters of an experimental fusion reactor. First preliminary design. (In Japanese).
 — Yamato, Harumi*; Tone, Tatsuzo; Sako, Kiyoshi.
 — JAERI-M--6484. Mar 1976. 26 p.
- 76093 Design of ten-pulsed high power laser equipment. (In Japanese).
 — Yamauchi, Toshihiko*; Matoba, Tohru; Funahashi, Akimasa.
 — JAERI-M--6587. Jun 1976. 59 p.
- 76094 Magnetic structure of TbCu_{1-x}Zn_x.
 — Yashiro, Tsutomu*; Hamaguchi, Yoshikazu; Watanabe, Hiroshi*.
 — *J. Phys. Soc. Jpn.* v. 40(1) p. 63-71. (1976).
- 76095 Crystallite size distribution and lattice distortions in uniaxially drawn polyethylene.
 — Yoda, Osamu; Tamura, Naoyuki; Doi, Kenji.
 — *J. Mater. Sci. (GB)*. v. 11(4) p. 696-702. (1976).
- 76096 Shell effects of vacuum vessel for the positional instability. (In Japanese).
 — Yokomizo, Hideaki*; Seki, Shogo; Kitsunozaki, Akio; Matsuda, Toshiaki; Saito, Ryuta*.
 — JAERI-M--6693. Sep 1976. 37 p.
- 76097 A computer code for study of the error magnetic fields based on a model of practical poloidal field coils in a large tokamak. (In Japanese).
 — Yoshida, Yoshikazu*; Saito, Ryuta*; Seki, Shogo; Kitsunozaki, Akio; Kobayashi, Tetsuro*; Kobayashi, Tomofumi*; Shimada, Ryuiti; Tamura Sanae; Tani, Keiji.
 — JAERI-M--6470. Mar 1976. 14 p.

NEUTRON AND NUCLEAR PHYSICS

- 76098 The dependence of self-focusing of a high-intensity pulsed electron beam on gaseous media as studied by depth-dose distributions, 3. Hydrocarbons and halogenomethanes.
 — Arai, Hidehiko; Hotta, Hiroshi.
 — *Radiat. Res. (US)*. v. 64(3) p. 407-415. (1975).
- 76099 Level density based on the degenerate single particle levels.
 — Baba, Hiroshi.
 — *Progr. Theor. Phys. (Kyoto)*. v. 55(3) p. 721-733. (1976).
- 76100 A new method of nuclear lifetime measurement by using single crystals.
 — Fujimoto, Fuminori*; Komaki, Kenichiro*; Maruyama, Michio; Ozawa, Kunio; Sugiyama, Yasuharu.
 — *Nucl. Instrum. Methods (NL)*. v. 132 p. 175-178. (1976).
- 76101 Possibility of a highly monochromatic neutron polarizer.
 — Funahashi, Satoru.
 — *Nucl. Instrum. Methods (NL)*. v. 137(1) p. 99-101. (1976).

- 76102 On the calculation methods on the neutron capture cross sections.
 — Igarasi, Sin-iti; Mori, A.*; Harada, Kichinosuke.
 — 17th meeting of the European-American nuclear data committee. Tokyo, Japan. 25 Mar 1974.
 — JAERI-M--5984. Feb 1975. p. 103-118.
- 76103 25-group constants of tritium.
 — Kim, Jung-Do*; Koyama, Kinji; Kuroi, Hideo.
 — JAERI-M--6494. Mar 1976. 18 p.
- 76104 A leakage iterative method for solving the three-dimensional neutron diffusion equation.
 — Naito, Yoshitaka; Maekawa, Mitsutomi*; Shibuya, Kazuo*.
 — *Nucl. Sci. Eng. (US)*. v. 58(2) p. 182-192. (1975).
- 76105 Compilation of the evaluated nuclear data library, JENDL-0. (In Japanese).
 — Nakagawa, Tsuneo.
 — JAERI-M--6380. Feb 1976. 81 p.
- 76106 Evaluation of the neutron data of ^{241}Am . (In Japanese).
 — Nakagawa, Tsuneo; Fuketa, Toyojiro; Igarasi, Sin-iti.
 — JAERI-M--6636. Jun 1976. 36 p.
- 76107 Chart of nuclides relating to neutron activation. A new chart for the rapid finding of the nuclides which may be formed. (In Japanese).
 — Okada, Minoru.
 — JAERI-M--6785. Nov 1976. 23 p.
- 76108 X-ray emission from boron and boron nitride by bombardment with nitrogen and argon ions.
 — Ozawa, Kunio; Kawatsura, Kiyoshi; Fujimoto, Fuminori*; Terasawa, Michitaka*.
 — *Nucl. Instrum. Methods (NL)*. v. 132 p. 517-520. (1976).
- 76109 Computer code APPLE for plotting spatial distributions of neutron spectra and reaction-rates. (In Japanese).
 — Seki, Yasushi; Narita, Hideo*; Igarashi, Masahito*.
 — JAERI-M--6365. Jan 1976. 30 p.
- 76110 Study of ^{94}Mo through the $(n, n'\gamma)$ reaction.
 — Sugiyama, Yasuharu; Kikuchi, Shiroh.
 — *Nucl. Phys., A (NL)*. v. 264(2) p. 179-187. (1976).
- 76111 Neutron energy-dependent kerma factors for nuclides. (In Japanese).
 — Tanaka, Shun-ichi; Takeuchi, Kiyoshi*.
 — JAERI-M--6348. Dec 1975. 35 p.
- 76112 Nuclear reactions and subsequent radioactive decays induced by 14-MeV neutrons.
 — Tsukada, Kineo.
 — JAERI-M--6354. Jan 1976. 61 p.

CHEMISTRY

- 76113 Separation of zirconium from fission products in silica gel-nitric acid systems.
— Akatsu, Eiko; Aratono, Yasuyuki.
— *Anal. Chim. Acta (NL)*. v. 84(2) p. 347-353. (1976).
- 76114 Morphology of as-polymerized polyacrylonitrile prepared by radiation-induced heterogeneous polymerization in bulk.
— Arai, Hidehiko; Wada, Takeshi; Kuriyama, Isamu.
— *J. Polym. Sci., Polym. Phys. Ed. (US)*. v. 13(11) p. 2241-2245. (1975).
- 76115 The morphology of polyethylene prepared by γ -ray-induced polymerization in various solvents.
— Arai, Hidehiko; Wada, Takeshi; Kuriyama, Isamu.
— *J. Polym. Sci., Polym. Phys. Ed. (US)*. v. 14 p. 1379-1389. (1976).
- 76116 The morphology of polyethylene prepared by γ -ray-induced polymerization in various solvents.
— Arai, Hidehiko; Wada, Takeshi*; Kuriyama, Isamu.
— *Rep. Prog. Polym. Phys. Jpn.* v. 18 p. 211-214. (1975).
- 76117 Study of hydrogen adsorbed on platinum by neutron inelastic scattering spectroscopy.
— Asada, Hiromu*; Toya, Tomiyuki*; Motohashi, Haruhiko; Sakamoto, Masanobu; Hamaguchi, Yoshikazu.
— *J. Chem. Phys. (US)*. v. 63(9) p. 4078-4079. (1975).
- 76118 An analytical representation of the response of the NaI(Tl) detector for the gamma-ray spectrum analysis.
— Baba, Hiroshi; Sekine, Toshiaki.
— *J. Radioanal. Chem. (HU)*. v. 29(1) p. 109-119. (1976).
- 76119 Analysis of uranium carbides. (In Japanese).
— Committee on the Analytical Chemistry of Nuclear Fuels and Reactor Materials.
— JAERI--1242. Mar 1976. 34 p.
- 76120 A simplified procedure in radioisotope dilution method for the mercury inventory of electrolytic chlorine cells.
— Enomoto, Shigemasa; Kawakami, Yutaka; Senoo, Muneaki; Imahashi, Tsuyoshi; Tachikawa, Noboru; Tominaga, Hiroshi.
— *Int. J. Appl. Radiat. Isot. (UK)*. v. 26(11) p. 671-675. (1975).
- 76121 Fluorination process studies of plutonium dioxide by fluid-bed. (In Japanese).
— Fuel Reprocessing Lab.
— JAERI-M--6392. Feb 1976. 48 p.
- 76122 Development of F₂ two-step fluorination process for non-aqueous reprocessing. (In Japanese).
— Fuel Reprocessing Lab.
— JAERI-M--6393. Feb 1976. 27 p.
- 76123 Adaptation of the continuous cold trap system of fluidized-bed to the fluoride volatility process. (In Japanese).
— Fuel Reprocessing Lab.
— JAERI-M--6405. Feb 1976. 19 p.

- 76124 Manual on safety handling of fluorine. (In Japanese).
 — Fuel Reprocessing Lab.; Fluorine Chemistry Lab.
 — JAERI-M-6485. Mar 1976. 17 p.
- 76125 Manual on safety handling of UF₆. (In Japanese).
 — Fuel Reprocessing Lab.
 — JAERI-M-6486. Mar 1976. 20 p.
- 76126 Purification process studies for the reprocessing by fluoride volatility method. (In Japanese).
 — Fuel Reprocessing Lab.
 — JAERI-M-6592. Jun 1976. 44 p.
- 76127 Fluorination of uranium oxides in an engineering scale of fluidized bed. (In Japanese).
 — Fuel Reprocessing Lab.
 — JAERI-M-6664. Aug 1976. 63 p.
- 76128 Zircaloy-steam reaction and embrittlement of the oxidized zircaloy cladding tube in a simulated loss-of-coolant accident. (In Japanese).
 — Furuta, Teruo; Kawasaki, Satoru; Hashimoto, Masao; Otomo, Takashi.
 — JAERI-M-6601. Jun 1976. 26 p.
- 76129 A study on control of radiation polymerization by dose rate regulation.
 — Hashimoto, Shoji; Kawakami, Waichiro; Akehata, Takashi*.
 — *Ind. Eng. Chem., Process Des. Dev. (US)*. v. 15(2) p. 244-249. (1976).
- 76130 High-resolution NMR studies on radiolytic reactions in polyethylene.
 — Hayakawa, Naohiro; Kuriyama, Isamu.
 — *J. Polym. Sci., Polym. Chem. Ed. (US)*. v. 14(6) p. 1513-1517. (1976).
- 76131 Ionic polymerization of *p*-methoxystyrene and other styrene derivatives by radiation.
 — Hayashi, Kanae; Pepper, D.C.*.
 — *Polym. J.* v. 8(1) p. 1-9. (1976).
- 76132 Behavior of inner surface oxidation of the zircaloy cladding tube in a loss-of-coolant accident. (In Japanese).
 — Honma, Kozo*; Hashimoto, Masao; Furuta, Teruo; Otomo, Takashi; Kawasaki, Satoru.
 — JAERI-M-6602. Jun 1976. 21 p.
- 76133 Determination of hydrogen in zirconium hydride and uranium-zirconium hydride by inert gas extraction-gravimetric method. (In Japanese).
 — Hoshino, Akira; Iso, Shuichi.
 — *Bunseki Kagaku*. v. 25(9) p. 578-581. (1976).
- 76134 Determination of total carbon in silicon carbide by gravimetry of carbon dioxide after alkali fusion. (In Japanese).
 — Hoshino, Akira; Ito, Mitsuo.
 — *Bunseki Kagaku*. v. 25(10) p. 702-705. (1976).
- 76135 Studies of the behavior of carrier-free radioisotopes. 6. The desorption characteristics of europium from polyethylene.
 — Ichikawa, Fujio.
 — *Radiochim. Acta (GE)*. v. 22(1-2) p. 59. (1975).

- 76136 Studies of the behavior of carrier-free radioisotopes, 7. Adsorption and desorption of plutonium(4) on glass and polyethylene.
— Ichikawa, Fujio.
— *Radiochim. Acta (GE)*. v. 22(3) p. 97-100. (1975).
- 76137 The radiation synthesis of hydrogen cyanide from the nitrogen-ethylene system. The effect of fission-fragment irradiation.
— Ikezoe, Yasumasa; Sato, Shoichi.
— *Bull. Chem. Soc. Jpn.* v. 48(11) p. 3111-3113. (1975).
- 76138 Radiation chemical reactions in carbon dioxide-propane system. Formation of carbon monoxide by fission fragments.
— Ikezoe, Yasumasa; Sato, Shoichi.
— *J. Nucl. Sci. Technol. (Tokyo)*. v. 13(9) p. 503-507. (1976).
- 76139 Instrumental neutron activation analysis of trace sodium in quartz.
— Imahashi, Tsuyoshi; Fujiki, Isao*; Enomoto, Shigemasa.
— *Radioisotopes (Tokyo)*. v. 25(1) p. 37-38. (1976).
- 76140 The reaction of nuclear graphites with hydrogen.
— Imai, Hisashi; Nomura, Shinzo; Sasaki, Yasuichi.
— *Carbon (UK)*. v. 13(4) p. 333-336. (1975).
- 76141 Preparation and properties of n-vinylpyrrolidone grafted polymers by radiation-induced graft polymerization.
— Ishigaki, Isao; Lyman, D.J.*.
— *Journal of Membrane Science*. v. 1 p. 301-309. (1976).
- 76142 Radiation-induced polymerization of glass-forming systems, 7. Study on strain formation in cast polymerization of glass-forming monomers.
— Kaetsu, Isao; Yoshii, Fumio; Okubo, Hiroshi; Ito, Akihiko.
— *Appl. Polym. Symp. (US)*. (no.26) p. 165-174. (1975).
- 76143 Radiation-induced grafting of acrylonitrile onto poly(vinylidene chloride) fiber. (In Japanese).
— Kaji, Kanako; Okada, Toshio; Sakurada, Ichiro.
— *Seni Gakkai-Shi*. v. 32(8) p. 340-346. (1976).
- 76144 Atomic absorption spectrophotometric determination of total silicon in silicon carbide.
— Kato, Kaneharu.
— *At. Absorpt. Newslett. (US)*. v. 15(1) p. 4-6. (1976).
- 76145 Lamellar structure in poly(tetraoxane) obtained by the radiation-induced polymerization in the solid state.
— Kato, Toshio; Nakase, Yoshiaki; Yoda, Osamu; Kuriyama, Isamu; Odajima, Akira*.
— *Polym. J.* v. 8(4) p. 331-339. (1976).
- 76146 Study on the original structure of polytetraoxane obtained by radiation-induced polymerization in the solid state.
— Kato, Toshio*; Nakase, Yoshiaki; Yoda, Osamu; Kuriyama, Isamu; Odajima, Akira*.
— *Rep. Prog. Polym. Phys. Jpn.* v. 18 p. 165-166. (1975).
- 76147 ¹⁹F- and ¹H-NMR spectra of tetrafluoroethylene-propylene copolymers.
— Kojima, Gen*; Wachi, Hiroshi; Ishigure, Kenkichi*; Tabata, Yoneho*.
— *J. Polym. Sci., Polym. Chem. Ed. (US)*. v. 14(6) p. 1317-1330. (1976).

- 76148 Analysis of the elution curve in eluting lutetium from cation-exchanger with alpha-hydroxyisobutyric acid.
 — Kubota, Masumitsu.
 — *Bull. Chem. Soc. Jpn.* v. 48(12) p. 3603-3607. (1975).
- 76149 Activation analysis of gadolinium impurity in high purity europium oxide.
 — Kubota, Masumitsu.
 — *J. Nucl. Sci. Technol. (Tokyo)*. v. 13(8) p. 449-453. (1976).
- 76150 Preparation of high purity praseodymium-143 from neutron irradiated cerium oxide by cation-exchange separation.
 — Kubota, Masumitsu.
 — *J. Nucl. Sci. Technol. (Tokyo)*. v. 13(9) p. 492-496. (1976).
- 76151 Removal of tritium from neutron-irradiated lithium oxide.
 — Kudo, Hiroshi; Tanaka, Kichizo.
 — *Radiochem. Radioanal. Lett. (HU)*. v. 23(2) p. 57-62. (1975).
- 76152 Contribution of uranium diffusion on creep behavior of uranium dicarbide.
 — Kurasawa, Toshimasa; Kikuchi, Takeo.
 — *J. Nucl. Mater. (NL)*. v. 60(3) p. 330-338. (1976).
- 76153 Effect of evolved hydrogen fluoride on radiation-induced crosslinking and dehydrofluorination of poly(vinylidene fluoride).
 — Makuuchi, Keizo; Asano, Masaharu; Abe, Toshihiko.
 — *J. Polym. Sci., Polym. Chem. Ed. (US)*. v. 14(3) p. 617-625. (1976).
- 76154 Effect of molecular structure on radiation-induced crosslinking of poly(vinylidene fluoride). (In Japanese).
 — Makuuchi, Keizo; Asano, Masaharu; Abe, Toshihiko.
 — *Nippon Kagaku Kaishi*. (no.4) p. 686-691. (1976).
- 76155 The effect of molecular motion on the radiation induced crosslinking of poly(vinylidene fluoride). (In Japanese).
 — Makuuchi, Keizo; Asano, Masaharu; Hayakawa, Naohiro; Seguchi, Tadao; Araki, Kunio.
 — *Nippon Kagaku Kaishi*. (no.11) p. 1990-1994. (1975).
- 76156 Kinetics of ion exchange in the chelating resin Dowex A-1.
 — Matsuzuru, Hideo; Wadachi, Yoshiki.
 — *Bull. Chem. Soc. Jpn.* v. 48(12) p. 3456-3459. (1975).
- 76157 Radiation-induced addition reaction of sodium hydrogensulfite to allyl alcohol in aqueous solution. (In Japanese).
 — Miyata, Teijiro; Sakumoto, Akihisa; Washino, Masamitsu; Abe, Toshihiko.
 — *Nippon Kagaku Kaishi*. (no.1) p. 15-20. (1976).
- 76158 Composite materials of polyoxymethylene obtained by radiation-induced, solid-state polymerization of trioxane. (In Japanese).
 — Morita, Yosuke; Ishigaki, Isao; Nishimura, Koichi; Watanabe, Yuhei; Ito, Akihiko.
 — JAERI-M-6357. Dec 1975. 19 p.

- 76159 Behavior of fission fragments released into chemical reactant from U-Pd alloy foil.
— Moriyama, Noboru; Sato, Shoichi; Ikezoe, Yasumasa; Lee, Han-Young*; Danno, Akibumi*.
— *J. Nucl. Sci. Technol. (Tokyo)*. v. 13(7) p. 365-371. (1976).
- 76160 Kinetic study of the nitrogenation of plutonium hydride with ammonia.
— Muromura, Tadasumi; Ouchi, Kinji.
— *J. Inorg. Nucl. Chem. (GB)*. v. 38(10) p. 1855-1859. (1976).
- 76161 Differential thermal analysis of polytetraoxane obtained by radiation-induced polymerization in the solid state. 2. Effect of various atmospheres during annealing.
— Nakase, Yoshiaki; Kuriyama, Isamu; Odajima, Akira*.
— *Polym. J.* v. 8(1) p. 35-42. (1976).
- 76162 Effect of the radiation on the melting behavior of polytetraoxane obtained by gamma-ray induced-polymerization in the solid state.
— Nakase, Yoshiaki; Yoda, Osamu; Kuriyama, Isamu; Odajima, Akira*; Ishibashi, Teruo*.
— *Rep. Prog. Polym. Phys. Jpn.* v. 18 p. 241-242. (1975).
- 76163 Self-diffusion of fluorine in molten dilithium tetrafluoroberyllate.
— Ohmichi, Toshihiko; Ohno, Hideo; Furukawa, Kazuo.
— *J. Phys. Chem. (Tokyo)*. v. 80(14) p. 1628-1631. (1976).
- 76164 On the ionic and covalent characters of uranium-fluorine bonds in complex fluorides of uranium.
— Ohwada, Ken.
— *J. Inorg. Nucl. Chem. (UK)*. v. 38(4) p. 741-745. (1976).
- 76165 Radiation-induced graft polymerization of butadiene gas onto poly(vinyl chloride) in a fluidized-bed reactor. (In Japanese).
— Omichi, Hideki; Yoshida, Kenzo; Araki, Kunio; Suzuki, Kazuya; Gotoda, Masao.
— JAERI-M--6593. Jun 1976. 34 p.
- 76166 Annual report of the Osaka Laboratory for Radiation Chemistry, Japan Atomic Energy Research Institute, (9). April 1, 1975 - March 31, 1976.
— Osaka Lab. for Radiation Chemistry.
— JAERI-M--6702. Sep 1976. 101 p.
- 76167 Reactions of recoil ^{80}Br activated by the (n, γ) process with some gaseous cyclanes ($\text{C}_4\text{-C}_6$).
— Saeki, Masakatsu; Tachikawa, Enzo.
— *Bull. Chem. Soc. Jpn.* v. 49(8) p. 2214-2219. (1976).
- 76168 Unimolecular decomposition of $[\text{}^{80}\text{Br}]$ bromocyclopropane formed by reaction of recoil bromine atoms with cyclopropane or with bromocyclopropane.
— Saeki, Masakatsu; Tachikawa, Enzo.
— *J. Chem. Soc. (London), Faraday Trans., 1 (UK)*. v. 71(11) p. 2121-2131. (1975).
- 76169 Fluorination of uranium compounds by gaseous bromine trifluoride and a bromine-fluorine mixture.
— Sakurai, Tsutomu.
— JAERI--1243. Mar 1976. 24 p.

- 76170 Effect of high pressure on radiation-induced cross-linking of synthetic rubbers.
 — Sasuga, Tsuneo; Takehisa, Masaaki.
 — *J. Macromol. Sci., Part B (US)*. v. 11(3) p. 389-401. (1975).
- 76171 Effect of pre-treatment of polyethylene surface on adsorption of carrier-free ⁹⁰Y.
 — Sato, Tadashi.
 — *Radiochem. Radioanal. Lett. (HU)*. v. 27(1) p. 21-26. (1976).
- 76172 Effect of molecular mobility on the reaction of free radicals with oxygen in irradiated polytetrafluoroethylene as studied by ESR.
 — Seguchi, Tadao; Hayakawa, Naohiro; Tamura, Naoyuki.
 — *Rep. Prog. Polym. Phys. Jpn.* v. 18 p. 493-496. (1975).
- 76173 Impurities of the radioisotopes produced in (n, γ) reactions. Purity of the product ¹⁶¹Tb and radioisotope yields in strongly-neutron-absorbing Gd₂O₃. (In Japanese).
 — Sekine, Toshiaki; Baba, Hiroshi.
 — JAERI-M--6668. Aug 1976. 45 p.
- 76174 Radiolysis of the ethane-ammonia mixture by fission fragments. (In Japanese).
 — Shimizu, Saburo; Ikezoe, Yasumasa; Sato, Shoichi; Kobayashi, Toshiaki; Nakajima, Hayato.
 — JAERI-M--6406. Feb 1976. 15 p.
- 76175 Radiation-induced cationic graft copolymerization of isobutene onto polyethylene.
 — Shimizu, Yuichi; Sasaki, Takashi; Sekiguchi, Akio*; Araki, Kunio.
 — *J. Polym. Sci., Polym. Chem. Ed. (US)*. v. 13(11) p. 677-687. (1975).
- 76176 Corrosion of nickel-base heat resistant alloys in simulated VHTR coolant helium at very high temperatures. (In Japanese).
 — Shindo, Masami; Kondo, Tatsuo.
 — *Tetsu To Hagane*. v. 62(12) p. 1540-1549. (1976).
- 76177 Oxygen concentration distribution in β -phase of the Zry-4 cladding during Zr-steam reaction at LOCA. (In Japanese).
 — Suzuki, Motoye.
 — JAERI-M--6538. May 1976. 27 p.
- 76178 The radiolysis of anthraquinone dye in aqueous solutions.
 — Suzuki, Nobutake; Nagai, Takeshi*; Hotta, Hiroshi; Washino, Masamitsu.
 — *Bull. Chem. Soc. Jpn.* v. 49(3) p. 600-605. (1976).
- 76179 The radiation-induced degradation of azo dyes in aqueous solutions.
 — Suzuki, Nobutake; Nagai, Takeshi*; Hotta, Hiroshi; Washino, Masamitsu.
 — *Int. J. Appl. Radiat. Isot. (UK)*. v. 26(12) p. 726-730. (1975).
- 76180 Trapping and recovery of radioiodine compounds by copper metal.
 — Tachikawa, Enzo; Tanase, Masakazu; Motojima, Kenji.
 — *Int. J. Appl. Radiat. Isot. (UK)*. v. 26(12) p. 758-762. (1975).
- 76181 The reactions of recoil tritium atoms with water.
 — Tachikawa, Enzo; Aratono, Yasuyuki.
 — *J. Inorg. Nucl. Chem. (UK)*. v. 38(2) p. 193-196. (1976).

- 76182 Determination of tritium concentration in fuel reprocessing liquid waste by vacuum freeze distillation.
 — Tachimori, Syoichi.
 — *J. Nucl. Sci. Technol. (Tokyo)*. v. 13(8) p. 442-448. (1976).
- 76183 Thermodynamic consideration on the constitution of multi-thermochemical water splitting process. (In Japanese).
 — Tagawa, Hiroaki.
 — JAERI-M--6421. Mar 1976. 34 p.
- 76184 Benzene extraction of the bromides of arsenic, antimony, selenium, mercury, tin and germanium, and its application to neutron activation analysis of beryllium and zinc. (In Japanese).
 — Tamura, Nori.
 — JAERI-M--6669. Aug 1976. 19 p.
- 76185 Non-destructive and destructive determination of cobalt in nickel-base alloys by neutron activation analysis.
 — Tamura, Nori.
 — *Z. Anal. Chem. (DE)*. v. 278(5) p. 283-284. (1976).
- 76186 An application of thin-layer chromatography to radiochemical inspection of iodide-¹³¹I and sulfite-³⁵S.
 — Tanase, Masakazu; Shikata, Eiji; Amano, Hiroshi.
 — *J. Nucl. Sci. Technol. (Tokyo)*. v. 13(3) p. 125-131. (1976).
- 76187 Separation of molybdenum-99 from neutron-irradiated uranium-235 with sulfur as collector.
 — Tanase, Masakazu; Kase, Toshio; Shikata, Eiji.
 — *J. Nucl. Sci. Technol. (Tokyo)*. v. 13(10) p. 591-595. (1976).
- 76188 Improvement in the preparation of ³⁵S-labeled solid sulfite and thiosulfate aqueous solution.
 — Tanase, Masakazu; Shikata, Eiji.
 — *Radioisotopes (Tokyo)*. v. 25(1) p. 39-41. (1976).
- 76189 Reduction stripping of plutonium loaded on TBP with addition of nitrous acid.
 — Tsujino, Takeshi; Aochi, Tetsuo; Hoshino, Tadaya*.
 — *J. Nucl. Sci. Technol. (Tokyo)*. v. 13(6) p. 321-326. (1976).
- 76190 Gamma-ray spectrometric determination of isotopic ratios of plutonium.
 — Umezawa, Hirokazu; Suzuki, Toshio; Ichikawa, Shin-ichi.
 — *J. Nucl. Sci. Technol. (Tokyo)*. v. 13(6) p. 327-332. (1976).
- 76191 Radiation-induced heterogeneous polymerization of acrylamide in acetone and acetone-water mixtures.
 — Wada, Takeshi; Sekiya, Hiroshi; Machi, Sueo.
 — *J. Polym. Sci., Polym. Chem. Ed. (US)*. v. 13(10) p. 2375-2389. (1975).
- 76192 Determination of sulfur in nickel-base alloys and alloy steels by isotope dilution mass spectrometry.
 — Watanabe, Kazuo.
 — *Anal. Chim. Acta (NL)*. v. 80 p. 117-123. (1975).

- 76193 Description of an engineering-scale facility for uranium fluorination studies. (In Japanese).
 — Yagi, Eiji*; Saito, Shinichi*; Horiuchi, Masato*.
 — JAERI-M--6487. Mar 1976. 41 p.
- 76194 Technical experiences in an engineering-scale facility for uranium fluorination studies. (In Japanese).
 — Yagi, Eiji*; Maeda, Mitsuru; Miyajima, Kazutoshi; Kagami, Haruo.
 — JAERI-M--6488. Mar 1976. 76 p.
- 76195 Theoretical analysis of knock-out release of fission products from nuclear fuels.
 — Yamagishi, Shigeru.
 — *J. Nucl. Mater.* v. 57(1) p. 56-68. (1975).
- 76196 High temperature oxidation of Hastelloy X in high velocity impurified helium. (In Japanese).
 — Yamamoto, Katsumune; Itami, Hiroharu; Nomura, Sueo.
 — *Nippon Genshiryoku Gakkai-Shi.* v. 17(11) p. 609-616. (1975).
- 76197 Radiation-induced polymerization of 1, 3-butadiene in urea canal complex as studied by broad line NMR. (In Japanese).
 — Yoshii, Fumio; Hayakawa, Naohiro; Abe, Toshihiko.
 — *Kobunshi Ronbunshu.* v. 32(12) p. 717-723. (1975).

MATERIALS

- 76198 The compressive strength of nuclear graphite, (1). Effect of neutron-irradiation and fracture criterion. (In Japanese).
 — Eto, Motokuni; Oku, Tatsuo; Fujisaki, Katsuo; Sasaki, Yasuichi.
 — *Tanso.* (no.87) p. 123-129. (1976).
- 76199 Xenon diffusion behaviour in pyrolytic SiC.
 — Fukuda, Kosaku; Iwamoto, Kazumi.
 — *J. Mater. Sci. (GB).* v. 11(4) p. 522-528. (1976).
- 76200 Co-deposition of zirconium with carbon by the bromide process.
 — Ikawa, Katsuichi.
 — *J. Less-common Met. (CH).* v. 44 p. 207-213. (1976).
- 76201 High velocity tensile test of JIS type SUS304 stainless steel at elevated temperatures. (In Japanese).
 — Isozaki, Toshikuni; Oba, Toshihiro; Ueda, Syuzo.
 — *Nippon Kikai Gakkai Ronbunshu.* v. 42(359) p. 2034-2041. (1976).
- 76202 Irradiation behavior of coated fuel particles, (2). Irradiation in JMTR 71F-7A capsule. (In Japanese).
 — Iwamoto, Kazumi; Fukuda, Kousaku; Kashimura, Satoru; Kikuchi, Akira.
 — JAERI-M--6717. Sep 1976. 33 p.
- 76203 Stored energy release in electron-irradiated graphite.
 — Iwata, Tadao; Nihira, Takeshi*.
 — *Jpn. J. Appl. Phys.* v. 15(4) p. 575-586. (1976).

- 76204 Observation of blistering and amorphization on germanium surface after 450 KeV Ar⁺ ion bombardment.
 — Kamada, Koji; Kazumata, Yukio; Kubo, Kazuko.
 — *Radiat. Eff. (UK)*. v. 28(1-2) p. 43-48. (1976).
- 76205 Improvement of creep properties in a helium injected austenitic stainless steel.
 — Kawasaki, Satoru; Furuta, Teruo; Nagasaki, Ryukichi; Uematsu, Kunihiko*.
 — Properties of Reactor Structural Alloys after Neutron or Particle Irradiation. Gatlinburg, Tenn. 11 Jun 1974.
 — *Properties of reactor structural alloys after neutron or particle irradiation, ASTM STP 570, Philadelphia, USA., American Society for Testing and Materials*. p. 218-232. 1975.
- 76206 Micrography for heat-resisting alloys of HTGR. (Post-irradiation examination and microstructures). (In Japanese).
 — Kizaki, Minoru; Sakai, Haruyuki; Sudo, Kenji; Ui, Yasunori; Ohuchi, Masahiro.
 — JAERI-M--6355. Jan 1976. 64 p.
- 76207 Radiation resistance of insulating polymer materials. (In Japanese).
 — Kuriyama, Isamu; Hayakawa, Naohiro; Nakase, Yoshiaki.
 — JAERI-M--6751. Oct 1976. 43 p.
- 76208 c-axis spacing changes in pyrolytic graphite after neutron irradiation at 5 K.
 — Maeta, Hiroshi; Iwata, Tadao; Okuda, Shigeo.
 — *J. Phys. Soc. Jpn.* v. 39(6) p. 1558-1565. (1975).
- 76209 The structure of β -U₂N₃.
 — Masaki, Norio; Tagawa, Hiroaki.
 — *J. Nucl. Mater. (NL)*. v. 58(2) p. 241-243. (1975).
- 76210 Moessbauer effect of β -silicon nitride containing iron.
 — Motoi, Soichiro*; Sato, Yoshiki.
 — *Yogyo Kyokai-Shi*. v. 84(9) p. 454-455. (1976).
- 76211 Electrical resistivity of uranium monophosphides, uranium mononitrides and uranium carbonitrides at low temperatures.
 — Nasu, Shoichi; Kurasawa, Toshimasa; Matsui, Hisayuki*; Tamaki, Masayoshi*; Okuda, Motoi*.
 — 5. International Conference on Plutonium and other Actinides 1975. Baden Baden. 10 Sep 1975.
 — *Plutonium 1975 and other Actinides, Amsterdam, North-Holland Publishing Company*. p. 515-523. 1976.
- 76212 On relation between strength and microstructure of pyrolytic SiC.
 — Ogawa, Kiyoyuki; Fukuda, Kosaku; Iwamoto, Kazumi.
 — *J. Mater. Sci. (UK)*. v. 11(7) p. 1362-1365. (1976).
- 76213 Anneal hardening of molybdenum neutron irradiated at 600°C.
 — Shiraishi, Kensuke; Fukaya, Kiyoshi; Katano, Yoshio.
 — *J. Nucl. Mater. (NL)*. v. 57(3) p. 361-364. (1975).
- 76214 Phase equilibria in system U-Pu-W-C.
 — Ugajin, Mitsuhiro; Abe, Jiro; Suzuki, Yasufumi; Takahashi, Ichiro; Kurihara, Masayoshi.
 — *J. Nucl. Sci. Technol. (Tokyo)*. v. 13(1) p. 36-39. (1976).

- 76215 Post-irradiation studies on knock-out and pseudo-recoil releases of fission products from fissioning UO_2 .
— Yamagishi, Shigeru; Tanifuji, Takaaki.
— *J. Nucl. Mater. (NL)*. v. 59(3) p. 243-256. (1976).

EARTH SCIENCES

- 76216 Dissolution of ^{59}Fe -labelled ferric hydroxide with leachate from the water-logged paddy soil. Roles of water-soluble substances in dynamics of paddy soil, 3. (In Japanese).
— Okazaki, Masanori*; Wada, Hidenori*; Tensho, Kiyoshi; Takai, Yasuo*.
— *Nippon Dojo Hiriyogaku Zasshi*. v. 47(4) p. 148-151. (1976).
- 76217 Tracer study on the mechanism of dissolution process of ferric hydroxide and manganese dioxide with soil solution of water-logged paddy soil. Roles of water-soluble substances in dynamics of paddy soil, 4. (In Japanese).
— Okazaki, Masanori*; Wada, Hidenori*; Tensho, Kiyoshi; Takai, Yasuo*.
— *Nippon Dojo Hiriyogaku Zasshi*. v. 47(7) p. 289-295. (1976).

ALL EFFECTS AND VARIOUS ASPECTS OF EXTERNAL RADIATION IN BIOLOGY

- 76218 Gamma-ray inactivation of biotin in dilute aqueous solution.
— Watanabe, Hiroshi; Aoki, Shohei; Sato, Tomotaro.
— *Agr. Biol. Chem. (Tokyo)*. v. 40(1) p. 9-15. (1976).
- 76219 Lysis of radio-resistant bacteria by enzyme of *Achromobacter lunatus*.
— Watanabe, Hiroshi; Kume, Tamikazu; Okazawa, Yoshishige*; Sato, Tomotaro.
— *Agr. Biol. Chem. (Tokyo)*. v. 40(2) p. 427-429. (1976).

APPLIED LIFE SCIENCES

- 76220 Insect control and organoleptic evaluation of rice irradiated by the pilot scale grain irradiator. (In Japanese).
— Aoki, Shohei; Watanabe, Hiroshi; Sato, Tomotaro; Hoshi, Tatsuo; Tanaka, Susumu; Takano, Hiroyuki*; Umeda, Keiji*.
— *Nippon Shokuhin Kogyo Gakkai-Shi*. v. 23(7) p. 283-287. (1976).
- 76221 Food irradiation in the Takasaki Radiation Chemistry Research Establishment, 2: (April 1973 - March 1976). (In Japanese).
— Food Irradiation Development Lab.
— JAERI-M--6548. May 1976. 76 p.
- 76222 Study of the intermediate type of *Moraxella* and *Acinetobacter* occurring in radurized in vienna sausages.
— Ito, Hitoshi; Sato, Tomotaro; Iizuka, Hiroshi*.
— *Agr. Biol. Chem. (Tokyo)*. v. 40(5) p. 867-873. (1976).

- 76223 Effective gamma-ray dosage and dose rate in sprout inhibition of potatoes. (In Japanese).
 — Kume, Tamikazu; Tachibana, Hiroyuki; Aoki, Shohei; Sato, Tomotaro.
 — JAERI-M--6408. Feb 1976. 9 p.
- 76224 Radiation preservation of vienna sausage. (1). Dose distribution of vienna sausage on package irradiation. (In Japanese).
 — Kume, Tamikazu; Aoki, Shohei; Ito, Hitoshi; Watanabe, Hiroshi; Sato, Tomotaro.
 — *Nippon Shokuhin Kogyo Gakkai-Shi*. v. 22(12) p. 577-581. (1975).
- 76225 Dose distribution of "Kamaboko" on package irradiation. (In Japanese).
 — Kume, Tamikazu; Tachibana, Hiroyuki; Aoki, Shohei; Sato, Tomotaro.
 — *Shokuhin Shosha*. v. 10(1-2) p. 61-67. (1975).
- 76226 Radiation treatment of artificial diet for silkworm. (In Japanese).
 — Shimizu, Osamu*; Watanabe, Hiroshi; Miyoshi, Takekatsu*.
 — *Gunmaku Sangyo Shikenjo Hokoku*. v. 47 p. 71-74. (1974).
- 76227 Radiation preservation of Citrus Unshiu, 1. Effect of gamma-irradiation on organoleptic properties and reduction of spoilage during storage. (In Japanese).
 — Watanabe, Hiroshi; Aoki, Shohei; Sato, Tomotaro.
 — *Nippon Shokuhin Kogyo Gakkai-Shi*. v. 23(7) p. 300-305. (1976).
- 76228 Decolorization of oily browning compounds from Koshu wine by products formed by gamma-radiolysis of water and ethanol.
 — Yokotsuka, Koki*; Watanabe, Hiroshi; Shiraiishi, Yoshihiro*; Sato, Tomotaro; Kushida, Tadae*.
 — *Hakko Kogaku Zasshi*. v. 54(2) p. 109-113. (1976).

HEALTH, SAFETY AND ENVIRONMENT

- 76229 Examination of the method for measurement of gross alpha activity in urine using glass fibre filter paper, (2). Uptake of actinoids on glass fibre filter paper and some investigations of the fluctuation of the recovery. (In Japanese).
 — Akaishi, Jun; Hattori, Takamitsu; Fukuda, Hiroshi; Yabe, Akira.
 — *Hoken Butsuri*. v. 11(1) p. 27-33. (1976).
- 76230 HYDY-B1 CODE: calculational model for core thermo-hydraulics during a loss-of-coolant accident.
 — Asahi, Yoshiro.
 — JAERI-M--6539. Apr 1976. 26 p.
- 76231 Examination of the method for measurement of gross alpha activity in urine using glass fibre filter paper, (1). An supplementary examination of the method reported by Eakins et al., and comparison with a method using coprecipitation. (In Japanese).
 — Fukuda, Hiroshi; Hattori, Takamitsu; Yabe, Akira; Akaishi, Jun.
 — *Hoken Butsuri*. v. 11(1) p. 21-26. (1976).
- 76232 Leakage test of the worn respirators by sodium-chloride particles. (In Japanese).
 — Ikezawa, Yoshio; Murata, Mikio; Yoshida, Yoshikazu.
 — *Hoken Butsuri*. v. 11(1) p. 45-50. (1976).

- 76233 Comparison study of the organ absorbed doses per unit exposure in external irradiation. (In Japanese).
 — Kaminaga, Hiroshi; Kumazawa, Shigeru; Furuta, Toshishiro; Tatsuta, Hatsumi.
 — *Hoken Butsuri*. v. 10(4) p. 193-201. (1975).
- 76234 Formation of volatile radioiodine compounds in sodium pool burning.
 — Kitani, Susumu; Takada, Junichi; Nishio, Gunji; Shiratori, Tetsuo.
 — *J. Nucl. Sci. Technol. (Tokyo)*. v. 12(11) p. 717-721. (1975).
- 76235 Safety analysis of the experimental multi-purpose high-temperature gas-cooled reactor. Analysis of plant behaviour in normal operation and accidents, based on the preliminary conceptual design. (In Japanese).
 — Mitake, Susumu; Ezaki, Masahiro; Suzuki, Katsuo; Takaya, Junichi*; Shimazu, Akira*; Saigo, Masao*; Takemoto, Masanori*; Yamada, Masao*; Kobayashi, Takeshi*; Morimoto, Toshio*.
 — JAERI-M--6400. Feb 1976. 227 p.
- 76236 A mechanical breathing simulator for respirator test. (In Japanese).
 — Murata, Mikio; Ikezawa, Yoshio; Yoshida, Yoshikazu.
 — *Hoken Butsuri*. v. 11(1) p. 51-56. (1976).
- 76237 Performance of cellulose-glass filter paper for radioactive aerosol sampling. (In Japanese).
 — Murata, Mikio; Akiyama, Isamu; Asano, Yoshie; Ikezawa, Yoshio; Yoshida, Yoshikazu; Matsumoto, Masashi*.
 — *Hoken Butsuri*. v. 11(3) p. 207-210. (1976).
- 76238 Evaluation of plutonium oxide aerosol release from an LMFBR in a hypothetical accident.
 — Nishio, Gunji; Kitani, Susumu; Takada, Junichi.
 — *Nucl. Eng. Des. (NL)*. v. 34(3) p. 417-428. (1975).
- 76239 An analysis of transients in experiments on loss-of-coolant accidents.
 — Sobajima, Makoto.
 — *Nucl. Sci. Eng. (US)*. v. 60(1) p. 10-18. (1976).
- 76240 Safety aspects of the experimental multi-purpose high-temperature gas-cooled reactor. (In Japanese).
 — Suzuki, Katsuo; Saito, Takao*; Takaya, Junichi*; Ogura, Kenji*.
 — JAERI-M--6613. Jul 1976. 83 p.
- 76241 Explosion of irradiated liquid nitrogen due to ozone decomposition. (In Japanese).
 — Takehisa, Masaaki; Yoshida, Kenzo; Kawakami, Waichiro; Seguchi, Tadao; Tanaka, Ryuichi; Watanabe, Hiromasa; Watanuki, Takashi; Kikuchi, Eisuke.
 — JAERI-M--6363. Jan 1976. 27 p.
- 76242 Study on the similarity between ROSA-III experiment and BWR LOCA. Pre-analysis of ROSA-III. (In Japanese).
 — Tasaka, Kanji; Sobajima, Makoto; Suzuki, Mitsuhiro; Shiba, Masayoshi.
 — JAERI-M--6703. Sep 1976. 131 p.

ISOTOPES AND RADIATION SOURCES

- 76243 Development of high intensity ^{192}Ir gamma-ray radiographic source.
— Maeda, Sho; Enomoto, Shigemasa.
— *Int. J. Appl. Radiat. Isot. (GB)*. v. 27 p. 447-451. (1976).
- 76244 Studies on the method of producing radiographic ^{170}Tm source. (In Japanese).
— Maeda, Sho.
— JAERI-M--6663. Aug 1976. 39 p.
- 76245 Static characteristics of the gaseous diffusion cascade with process gas loss from compressor shaft seal, 1. Ideal and quasi-ideal cascades. (In Japanese).
— Naruse, Yuji; Matsuda, Yuji; Maruyama, Yoichiro; Aochi, Tetsuo.
— JAERI-M--6455. Mar 1976. 53 p.
- 76246 Static characteristics of the gaseous diffusion cascades consisting of two-compartment diffusers. (In Japanese).
— Naruse, Yuji; Matsuda, Yuji; Maruyama, Yoichiro; Aochi, Tetsuo.
— JAERI-M--6501. Mar 1976. 61 p.

ISOTOPE AND RADIATION APPLICATIONS

- 76247 Radiation treatment of waste water, 4. Treatment of sewage sludge. (In Japanese).
— Sato, Hiroaki*; Machi, Suelo; Washino, Masamitsu.
— JAERI-M--6329. Dec 1975. 22 p.
- 76248 Multielements particle size analysis by means of energy dispersive x-ray fluorescence with the aid of sedimentation.
— Tominaga, Hiroshi; Enomoto, Shigemasa; Senoo, Muneaki; Tachikawa, Noboru.
— ERDA Symposium on X-and Gamma-ray Sources and Applications. Ann Arbor, USA. 19 May 1976.
— *Proc. of ERDA X-and Gamma-ray Sources and Appl. Symp., CONF-760539*. p. 211-214. 1976.

ENGINEERING

- 76249 Displacement, stress and strain in two-dimensional problems of solid and hollow cylinders. (In Japanese).
— Harayama, Yasuo; Yamada, Rayji; Izumi, Fumio.
— JAERI-M--6626. Jul 1976. 30 p.
- 76250 X-ray microradiography apparatus for irradiated coated fuel particles. (In Japanese).
— Kashimura, Satoru; Iwamoto, Kazumi; Iida, Shozo; Saito, Mituo.
— JAERI-M--6332. Dec 1975. 27 p.
- 76251 Transient heat transfer in turbulent flow with time-dependent heat input.
— Kawamura, Hiroshi.
— JAERI-M--6597. Jun 1976. 21 p.

- 76252 Analysis of transient heat transfer for turbulent flow in an annulus, 2. Heating element with thermal capacity and thermal resistance. (In Japanese).
 — Kawamura, Hiroshi.
 — *Nippon Kikai Gakkai Ronbunshu*. v. 42(356) p. 1207-1215. (1976).
- 76253 Fabrication of an Al capsule for the hydraulic rabbit by friction welding. (In Japanese).
 — Ooka, Norikazu; Itami, Hiroharu.
 — JAERI-M--6758. Oct 1976. 26 p.
- 76254 Glass apparatuses for production of processed radioisotopes. (In Japanese).
 — Yamabayashi, Hisamichi.
 — JAERI-M--6390. Feb 1976. 27 p.
- 76255 Analysis of ring compression test by finite element method. (In Japanese).
 — Yamada, Rayji; Suzuki, Motoe; Harayama, Yasuo.
 — JAERI-M--6690. Aug 1976. 26 p.

NUCLEAR REACTORS (GENERAL)

- 76256 Measurement of space dependent angular thermal neutron spectra in natural uranium-light water slab.
 — Akino, Fujiiyoshi; Kaneko, Yoshihiko; Kitadate, Kenji; Kurokawa, Ryosuke.
 — *J. Nucl. Sci. Technol. (Tokyo)*. v. 13(8) p. 397-407. (1976).
- 76257 Measurement of the neutron flux distribution in graphite-moderated core SHE-8 inserted with experimental control rods. (In Japanese).
 — Akino, Fujiiyoshi; Kitadate, Kenji; Kaneko, Yoshihiko.
 — JAERI-M--6701. Sep 1976. 25 p.
- 76258 Measurement and calculation of the critical masses of graphite moderated, 20%-enriched uranium loaded cores. (In Japanese).
 — Akino, Fujiiyoshi; Kaneko, Yoshihiko; Kitadate, Kenji; Kurokawa, Ryosuke; Yasuda, Hideshi; Takeuchi, Motoyoshi.
 — JAERI-M--6739. Oct 1976. 27 p.
- 76259 Nuclear calculation of the JMTR core. (2). Revision of the neutron flux calculation method. (In Japanese).
 — Ando, Hiroei; Iida, Hiromasa*; Nagaoka, Yoshiharu; Oyamada, Rokuro.
 — JAERI-M--6736. Oct 1976. 34 p.
- 76260 Application of coarse-mesh rebalance acceleration to Monte Carlo eigenvalue problems.
 — Asaoka, Takumi; Nakahara, Yasuaki; Horikami, Kunihiko; Nishida, Takahiko; Suzuki, Tadakazu; Taji, Yukichi; Miyasaka, Shunichi; Hirota, Jitsuya.
 — *Nucl. Sci. Eng. (US)*. v. 59(4) p. 326-336. (1976).
- 76261 Determination of coating contamination in coated fuel particles.
 — Hayashi, Teiji; Iwamoto, Kazumi.
 — *J. Nucl. Sci. Technol. (Tokyo)*. v. 13(3) p. 132-138. (1976).

- 76262 Effects of the used calculation method and cross-section set upon safety physics parameters of a gas-cooled fast breeder reactor.
 — Ikawa, Kohji; Yoshida, Hiroyuki; Nishimura, Hideo; Iijima, Susumu; Osugi, Toshitaka; Hirata, Mitsuho.
 — JAERI-M--6729. Oct 1976. 36 p.
- 76263 Present status on algorithms and benchmark tests for numerical solution of the time-dependent neutron transport equation. Benchmark tests on the space-dependent neutron kinetics codes. 1. (In Japanese).
 — Ise, Takeharu; Horikami, Kunihiro; Kobayashi, Kensuke.
 — JAERI-M--6373. Jan 1976. 50 p.
- 76264 GURNET-2: Perturbation theory code in one-dimensional diffusion approximation. (In Japanese).
 — Ise, Takeharu.
 — JAERI-M--6491. Mar 1976. 19 p.
- 76265 Measurement of multiple control rods reactivity worths in semi-homogeneous critical assembly.
 — Kaneko, Yoshihiko; Akino, Fujiyoshi; Yasuda, Hideshi; Kurokawa, Ryosuke; Kitadate, Kenji; Takeuchi, Motoyoshi.
 — JAERI-M--6549. May 1976. 59 p.
- 76266 Experiment of transient heat transfer for turbulent flow in a circular tube. (In Japanese).
 — Kawamura, Hiroshi; Iwahori, Koji*.
 — *Nippon Kikai Gakkai Ronbunshu*. v. 42(360) p. 2501-2509. (1976).
- 76267 Fission Product Fast Reactor Constants System of JNDC.
 — Kikuchi, Yasuyuki; Hasegawa, Akira; Nishimura, Hideo; Tasaka, Kanji.
 — JAERI--1248. Nov 1976. 98 p.
- 76268 Development of cables for nuclear power generating stations. (In Japanese).
 — Kuriyama, Isamu; Hasegawa, Toru*; Ogura, Jiro*; Onishi, Takao*; Kimura, Hiroshi*.
 — *Hitachi Hyoron*. v. 58(3) p. 247-252. (1976).
- 76269 Application of linear optimal regulator technique to control of a nuclear reactor plant.
 — Mankin, Shuichi; Shinohara, Yoshikuni.
 — *J. Nucl. Sci. Technol. (Tokyo)*. v. 12(12) p. 727-734. (1975).
- 76270 Proposal of an actual hierarchical control method from trial of improvements in boiling water test loop. Suggestion of application to nuclear power plant control. (In Japanese).
 — Mankin, Shuichi; Fujii, Yoshio; Hara, Masao.
 — *Nippon Genshiryoku Gakkai-Shi*. v. 18(6) p. 380-392. (1976).
- 76271 Convergence and error estimate of perturbation method in reactor calculations.
 — Mitani, Hiroshi.
 — *J. Nucl. Sci. Technol. (Tokyo)*. v. 13(8) p. 413-422. (1976).
- 76272 Estimation of multiple control rod worth with strong interaction effect in large fast reactors.
 — Mitani, Hiroshi.
 — *J. Nucl. Sci. Technol. (Tokyo)*. v. 13(9) p. 517-520. (1976).

- 76273 Evaluation of the JMTR thermal neutron flux variation during operation. Analysis by three-dimensional calculation. (In Japanese).
 — Nagaoka, Yoshiharu.
 — JAERI-M-6661. Aug 1976. 30 p.
- 76274 ESELEM 4: a code for calculating fine neutron spectrum and multi-group cross sections in plate lattice.
 — Nakagawa, Masayuki; Katsuragi, Satoru; Narita, Hideo*.
 — JAERI-1245. Jul 1976. 46 p.
- 76275 A direct method for numerical solution of a class of nonlinear Volterra integro-differential equations and its application to the nonlinear fission and fusion reactor kinetics.
 — Nakahara, Yasuaki; Ise, Takeharu; Kobayashi, Kensuke; Itoh, Yasuyuki*.
 — JAERI-M-6351. Dec 1975. 52 p.
- 76276 Reactivity measurement in a far-subcritical fast system, (3). Source jerk method. (In Japanese).
 — Nakano, Masafumi; Mizoo, Nobutatsu; Mukaiyama, Takehiko; Cho, Mann*.
 — JAERI-M-6496. Mar 1976. 21 p.
- 76277 A method for estimating multiple-rod worth by single-rod experiment. (In Japanese).
 — Nakano, Masafumi.
 — JAERI-M-6504. Mar 1976. 12 p.
- 76278 Sodium in-pile loop experiment on delayed neutron detector-, precipitator-, and cover-gas gamma-ray spectrometer-type fuel failure detection systems.
 — Sakai, Eiji; Katagiri, Masaki; Itoh, Hiroshi.
 — *IEEE Trans. Nucl. Sci.* v. 23(1) p. 363-374. (1976).
- 76279 Correspondence between JMTR and JMTRC. No.34 operation cycle. (In Japanese).
 — Sezaki, Katsuzi; Takeda, Katsuhiko; Sakurai, Fumio; Komukai, Bunsaku; Kondo, Ikuo.
 — JAERI-M-6688. Aug 1976. 43 p.
- 76280 On-line simulation of thermal characteristics of nuclear fuel rod by electrically heated rod.
 — Soda, Kuniyoshi.
 — *J. Nucl. Sci. Technol. (Tokyo)*. v. 13(9) p. 523-526. (1976).
- 76281 Improvement of coarse mesh difference diffusion scheme about control rods.
 — Suzuki, Tomoo.
 — *J. Nucl. Sci. Technol. (Tokyo)*. v. 12(11) p. 695-702. (1975).
- 76282 A method of calculation of detailed power distribution in fuel assemblies.
 — Suzuki, Tomoo; Katsuragi, Satoru.
 — *J. Nucl. Sci. Technol. (Tokyo)*. v. 13(7) p. 348-357. (1976).
- 76283 Estimation of irradiation history of a spent fuel by gamma-ray spectroscopy.
 — Tasaka, Kanji.
 — *Nucl. Technol. (US)*. v. 29(2) p. 239-248. (1976).
- 76284 Effect of pre-hydriding on post-irradiation ring-tensile properties of zircaloy-2 cladding tubes.
 — Uchida, Masaaki; Ichikawa, Michio.
 — *J. Nucl. Sci. Technol. (Tokyo)*. v. 13(10) p. 585-590. (1976).

- 76285 Evaluation of nuclear core performance of the gas-cooled fast breeder reactors. (In Japanese).
— Yoshida, Hiroyuki.
— JAERI-M-6728. Oct 1976. 52 p.

REACTOR TYPES

- 76286 A study on the amoeba effect of the fuel for reference core design (Mark-III) of the experimental multi-purpose high-temperature gas-cooled reactor. (In Japanese).
— Arai, Taketoshi; Tani, Yutaro*.
— JAERI-M-6326. Nov 1975. 72 p.
- 76287 Irradiation damage of beryllium reflector in Japan Materials Testing Reactor.
— Furukawa, Yoshinori.
— JAERI-M-6511. Apr 1976. 21 p.
- 76288 Deformation and inner oxidation of the fuel rod in a loss-of-coolant accident condition. (In Japanese).
— Furuta, Teruo; Hashimoto, Masao; Otomo, Takashi; Kawasaki, Satoru; Honma, Kozo*.
— JAERI-M-6339. Dec 1975. 17 p.
- 76289 Factors influencing deformation and wall thickness of fuel rods under a loss-of-coolant accident. (In Japanese).
— Furuta, Teruo; Kawasaki, Satoru; Hashimoto, Masao; Otomo, Takashi.
— JAERI-M-6542. May 1976. 30 p.
- 76290 Effect of the fuel pellets densification on the fuel-rod internal pressure. (In Japanese).
— Harayama, Yasuo; Izumi, Fumio; Yamada, Rayji; Ishibashi, Akihiro*.
— JAERI-M-6631. Jul 1976. 18 p.
- 76291 Design study of block-pin type fuel for experimental VHTR (EVHTR) core. (In Japanese).
— Ikushima, Takeshi; Hirano, Mitsumasa; Suzuki, Kunihiko; Kurashige, Tetsuo*; Kuroki, Shuji*; Saijo, Yasuhiro*; Tamura, Nobuhiro*.
— JAERI-M-6714. Sep 1976. 40 p.
- 76292 A survey of HTGR fuel recycle technologies. (In Japanese).
— Iwamoto, Kazumi.
— JAERI-M-6376. Jan 1976. 52 p.
- 76293 Irradiation behavior of coated fuel particles, (1). Irradiation in JMTR 70F-4A capsule. (In Japanese).
— Iwamoto, Kazumi; Fukuda, Kousaku; Kashimura, Satoru; Kikuchi, Akira.
— JAERI-M-6480. Mar 1976. 32 p.
- 76294 Validity of the quasi-static assumption in transient thermohydraulic analysis of GCFR.
— Kawamura, Hiroshi.
— JAERI-M-6598. Jun 1976. 28 p.

- 76295 Analysis of plate lattice heterogeneity effects of fast reactor with coarse group constants.
 — Kikuchi, Yasuyuki.
 — *J. Nucl. Sci. Technol. (Tokyo)*. v. 13(6) p. 304-314. (1976).
- 76296 Effect of flow rate on fission-product deposition from high-temperature gas streams.
 — Kitahara, Tanemichi; Yokoo, Hiroshi; Kaieda, Keisuke; Toyoshima, Noboru; Fukushima, Masao; Kumagai, Katsuaki; Yamada, Tadanori; Kosuge, Ikuo.
 — *J. Nucl. Sci. Technol. (Tokyo)*. v. 13(3) p. 111-118. (1976).
- 76297 Experiment on local power peaking in BWR type fuel assembly.
 — Kobayashi, Iwao; Tsuruta, Harumichi; Matsuura, Shojiro.
 — *J. Nucl. Sci. Technol. (Tokyo)*. v. 12(10) p. 650-657. (1975).
- 76298 Operation report on the low temperature fission-chemical loop (LTFL), 6. Operations during the period of April 1975 to March 1976. (In Japanese).
 — Kobayashi, Toshiaki; Sato, Shoichi; Ikezoe, Yasumasa; Shimizu, Saburo; Nakajima, Hayato.
 — JAERI-M--6507. Mar 1976. 11 p.
- 76299 A new experimental method of estimating physics parameters in large fast reactors.
 — Mitani, Hiroshi.
 — *J. Nucl. Sci. Technol. (Tokyo)*. v. 13(2) p. 58-73. (1976).
- 76300 Report on reflood series I experiment. (In Japanese).
 — Murao, Yoshio; Iguchi, Tadashi; Sudoh, Takashi; Sudo, Yukio; Sugimoto, Jun; Niitsuma, Yasushi; Fukaya, Yoshio; Hirano, Kenmei.
 — JAERI-M--6551. Jun 1976. 67 p.
- 76301 Subcooled decompression analysis in PWR LOCA.
 — Namatame, Ken; Kobayashi, Kensuke.
 — *J. Heat Transfer (US)*. v. 98(1) p. 12-18. (1976).
- 76302 Subcooled decompression analysis of the ROSA and the LOFT semiscale blowdown test data with the digital computer code DEPCO-MULTI.
 — Namatame, Ken; Kobayashi, Kensuke.
 — JAERI-M--6340. Dec 1975. 31 p.
- 76303 Guidelines for the structural design of experimental multi-purpose VHTR at the elevated temperature services. (In Japanese).
 — Nomura, Sueo; Uga, Takeo; Miyamoto, Yoshiaki; Muto, Yasushi; Ikushima, Takeshi; Kodaira, Tuneo; Suzuki, Michiaki.
 — JAERI-M--6396. Feb 1976. 117 p.
- 76304 Quarterly progress report on the NSRR experiments, (1). Combined, October 1975 - March 1976. (In Japanese).
 — Reactivity Accident Lab.; NSRR Operation Sect.
 — JAERI-M--6635. Jul 1976. 80 p.
- 76305 Report on ROSA-II test, 3. Runs 204, 301, 302. (In Japanese).
 — Reactor Safety Lab. 1.
 — JAERI-M--6512. Apr 1976. 73 p.

- 76306 Report on ROSA-II test, 4. Runs 401, 403, 404. (In Japanese).
 — Reactor Safety Lab. 1.
 — JAERI-M--6513. Apr 1976. 78 p.
- 76307 Experiment on performance of upper head injection system with ROSA-II. (In Japanese).
 — Reactor Safety Lab. 1.
 — JAERI-M--6707. Sep 1976. 169 p.
- 76308 ROSA-II test data report, 5. Runs 310, 311, 312, 313, 317. (In Japanese).
 — Reactor Safety Lab. 1.
 — JAERI-M--6709. Sep 1976. 169 p.
- 76309 Experimental program ROSA-II. (In Japanese).
 — Shiba, Masayoshi; Adachi, Hiromichi; Namatame, Ken; Okazaki, Motoaki; Sobajima, Makoto; Suzuki, Mitsuhiro.
 — JAERI-M--6362. Feb 1976. 110 p.
- 76310 An experimental study on PWR-LOCA by ROSA-II, (1). (In Japanese).
 — Shiba, Masayoshi; Adachi, Hiromichi; Namatame, Ken; Okazaki, Motoaki; Sobajima, Makoto; Suzuki, Mitsuhiro.
 — *Nippon Genshiryoku Gakkai-Shi*. v. 18(4) p. 233-250. (1976).
- 76311 Surveillance test of OWL-2 inpile tube. (In Japanese).
 — Shimizu, Masatsugu; Itoh, Noboru.
 — JAERI-M--6667. Aug 1976. 33 p.
- 76312 Blowdown heat transfer experiment, (1). Test with the transparent test section. (In Japanese).
 — Soda, Kunihisa; Yamamoto, Nobuo; Osaki, Hideki; Shiba, Masayoshi.
 — JAERI-M--6708. Sep 1976. 59 p.
- 76313 Calculation of the additional FPs release through a defect hole on the cladding of a fuel rod (code CODAC-ARFP). (In Japanese).
 — Takeda, Tsuneo.
 — JAERI-M--6399. Feb 1976. 22 p.
- 76314 Build-up and decay of fuel actinides in the fuel cycle of nuclear reactors. (In Japanese).
 — Tasaka, Kanji; Kikuchi, Yasuyuki; Shindo, Ryuichi; Yoshida, Hiroyuki; Yasukawa, Shigeru.
 — JAERI-M--6541. May 1976. 167 p.
- 76315 Determination of the capacity of a helium purification system for the OGL-1 gas loop. (In Japanese).
 — Tone, Hirohito.
 — JAERI-M--6505. Apr 1976. 18 p.

INSTRUMENTATION

- 76316 Fuel elongation detectors for NSRR high-temperature water capsule. Prototype differential transformer and the test.
— Ara, Katsuyuki; Yamada, Masaharu.
— JAERI-M--6352. Dec 1975. 21 p.
- 76317 Relative efficiency calibration of Ge(Li) detector in low energy region.
— Baba, Sumiko; Suzuki, Toshio.
— *J. Radioanal. Chem. (HU)*. v. 29(2) p. 301-308. (1976).
- 76318 A β -ray absorbed dose rate meter, (1). Selected pulse counting method to obtain the energy-independent response. (In Japanese).
— Bingo, Kazuyoshi; Chida, Tooru; Kawai, Katsuo.
— JAERI-M--6753. Oct 1976. 26 p.
- 76319 A high-resolution cylindrical proportional counter for neutron-spectrum measurements in a fast critical assembly.
— Ichimori, Toshihiro; Obu, Makoto; Shirakata, Keisho.
— *Nucl. Instrum. Methods (NL)*. v. 127(4) p. 571-577. (1975).
- 76320 Re-activation of an inactive Ge(Li) detector left for long time at room temperature. Application of direct heating of the crystal by flowing electric current and estimation of the characteristic by measuring Q-factor. (In Japanese).
— Kawarasaki, Yuuki.
— JAERI-M--6628. Jul 1976. 33 p.
- 76321 A simple method for generation of background-free gamma-ray spectra.
— Kawarasaki, Yuuki.
— *Nucl. Instrum. Methods (NL)*. v. 133(2) p. 335-340. (1976).
- 76322 Neutron spectrum measurement in JMTRC. Evaluation in the energy region of 0.1 - 1 MeV by foil activation. (In Japanese).
— Kondo, Ikuo; Sezaki, Katsuji; Sakurai, Fumio.
— JAERI-M--6550. May 1976. 22 p.
- 76323 Characteristics of an intrinsic germanium detector for measurement of soft x-rays from high-temperature plasmas. (In Japanese).
— Kumagai, Katsuaki; Matoba, Tohru; Funahashi, Akimasa; Kawakami, Tomohide.
— JAERI-M--6694. Sep 1976. 44 p.
- 76324 A fast ionization gauge for neutral pressure measurement in the vicinity of the JFT-2 plasma. (In Japanese).
— Maeno, Masaki; Sato, Tadashi*; Hirayama, Toshio; Suzuki, Norio; Fujisawa, Noboru.
— JAERI-M--6712. Sep 1976. 14 p.
- 76325 Neutron capture gamma-ray experiment facility. (In Japanese).
— Mizumoto, Motoharu.
— JAERI-M--6718. Sep 1976. 28 p.
- 76326 High-sensitivity plastic scintillation dose counter. (In Japanese).
— Moriuchi, Shigeru; Kobayashi, Hideo.
— JAERI-M--6424. Mar 1976. 23 p.

- 76327 Transmission-type ^6Li glass neutron monitor and its application in flux measurements of linac. (In Japanese).
 — Ohkubo, Makio.
 — JAERI-M--6630. Jul 1976. 13 p.
- 76328 'In-situ' gamma-ray measurement using Ge(Li) detectors.
 — Sakai, Eiji; Terada, Hiromi; Katagiri, Masaki.
 — *IEEE Trans. Nucl. Sci. (US)*. v. 23(1) p. 726-733. (1976).
- 76329 In-situ measurement of the environmental gamma-rays by portable Ge(Li) detectors. (In Japanese).
 — Sakai, Eiji; Terada, Hiromi; Katagiri, Masaki.
 — JAERI-M--6498. Mar 1976. 100 p.
- 76330 An interpolation method for the response function of radiations obtained by proton recoil type scintillators.
 — Sasamoto, Nobuo.
 — JAERI-M--6536. May 1976. 21 p.
- 76331 A measure of the degree of fit between the calculated and observed spectra.
 — Sekine, Toshiaki; Baba, Hiroshi.
 — *Nucl. Instrum. Methods (NL)*. v. 133(1) p. 171-173. (1976).
- 76332 Development of a double scintillator fast neutron spectrometer. (In Japanese).
 — Shirakata, Keisho; Iijima, Tsutomu; Cho, Mann*.
 — JAERI-M--6492. Mar 1976. 91 p.
- 76333 Pulse height dependence on source position in Ge(Li) gamma-ray detectors. (In Japanese).
 — Shizuma, Kiyoshi*; Sakai, Eiji; Katagiri, Masaki.
 — JAERI-M--6497. Mar 1976. 111 p.
- 76334 Comparison of gamma-ray exposure rates between the ionization chambers. (In Japanese).
 — Tanaka, Ryuichi; Kawai, Mikito; Tajima, Satoshi; Tamura, Naoyuki; Katoh, Akira*;
 Yamachi, Iwao*; Naoi, Jiro*; Moriuchi, Yasuyuki*.
 — JAERI-M--6346. Dec 1975. 20 p.
- 76335 Usage of a thermoluminescence dosimeter as a thermal neutron detector with high sensitivity.
 — Tanaka, Shun-ichi; Furuta, Yutaka.
 — *Nucl. Instrum. Methods (NL)*. v. 133(3) p. 495-499. (1976).
- 76336 Spectrum-to-dose conversion operator value function of a Ge(Li) in-situ environmental gamma-ray spectrometer. (In Japanese).
 — Terada, Hiromi; Sakai, Eiji; Katagiri, Masaki.
 — JAERI-M--6523. May 1976. 18 p.
- 76337 Construction of an anticompton Ge(Li) gamma-ray spectrometer with compton shield NaI(Tl) scintillators and its applications to low-level counting. (In Japanese).
 — Tojo, Takao; Kondo, Makoto.
 — JAERI-M--6555. May 1976. 45 p.

WASTE MANAGEMENT

- 76338 The laboratory-scale method for decontaminating and evaporating alpha-bearing aqueous waste.
— Akatsu, Johkun.
— JAERI-M--6423. Feb 1976. 33 p.
- 76339 Development of an incinerator using ceramic filters for low level radioactive solid waste treatment. (In Japanese).
— Machida, Chuji; Kato, Kiyoshi; Karita, Yoichi*.
— JAERI--1244. Mar 1976. 15 p.
- 76340 Decontamination factor of an incinerator for radioactive solid wastes. (In Japanese).
— Machida, Chuji; Kodaira, Noboru*.
— *Nippon Genshiryoku Gakkai-Shi.* v. 17(12) p. 661-666. (1975).
- 76341 Safety evaluation of the radioactive waste-cement composites, 2. Leaching of ^{60}Co from the solidified cement composites. (In Japanese).
— Matsuzuru, Hideo; Hisa, Isamu; Ouchi, Koki; Moriyama, Noboru; Wadachi, Yoshiki; Ito, Akihiko.
— JAERI-M--6361. Jan 1976. 18 p.
- 76342 Safety evaluation of the radioactive waste-cement composites, 3. Effect of the geometry on the leachability. (In Japanese).
— Matsuzuru, Hideo; Hisa, Isamu; Ouchi, Koki; Moriyama, Noboru; Wadachi, Yoshiki; Ito, Akihiko.
— JAERI-M--6457. Mar 1976. 11 p.
- 76343 Safety evaluation of the radioactive waste-cement composites, (4). Leaching behavior of ^{137}Cs in the crushed samples.
— Matsuzuru, Hideo; Wadachi, Yoshiki; Ito, Akihiko.
— JAERI-M--6749. Oct 1976. 16 p.
- 76344 Hydraulic pressure-resistance test with monolithic cement solids of practical size for the sea disposal. (In Japanese).
— Seki, Susumu; Ouchi, Kouki; Hisa, Isamu.
— JAERI-M--6364. Jan 1976. 14 p.
- 76345 High pressure leaching test apparatus for full-scale radioactive waste solids. (In Japanese).
— Seki, Susumu; Ouchi, Kouki; Hisa, Isamu; Emura, Satoru*.
— JAERI-M--6382. Jan 1976. 53 p.
- 76346 Improvement of fission products decontamination through dibutyl phosphate masking in a purex process.
— Tsujino, Takeshi; Hoshino, Tadayasu*; Aochi, Tetsuo.
— *Ind. Eng. Chem., Process Des. Dev. (US).* v. 15(3) p. 396-400. (1976).
- 76347 Reverse osmosis treatment of the laundry waste from a nuclear facility (laboratory-scale test). (In Japanese).
— Wadachi, Yoshiki; Kojima, Katsumi*.
— JAERI-M--6337. Dec 1975. 9 p.

ECONOMICS

- 76348 The status and long term strategies of nuclear energy development programme in Japan. (In Japanese).
— Murata, Hiroshi; Hayashi, Toshikazu; Katsuragi, Satoru.
— JAERI-M--6632. Jul 1976. 26 p.
- 76349 Cost estimation of butadiene-grafted polyvinyl chloride produced by gas phase radiation-induced graft polymerization. (In Japanese).
— Yoshida, Kenzo; Araki, Kunio.
— JAERI-M--6784. Nov 1976. 26 p.

NUCLEAR DOCUMENTATION

- 76350 KWIC Index of nuclear codes (1975 edition). (In Japanese).
— Akanuma, Makoto; Hirakawa, Takashi.
— JAERI-M--6371. Jan 1976. 64 p.
- 76351 Analysis for a queuing model of FACOM 230-75 system. (In Japanese).
— Ishiguro, Misako.
— JAERI-M--6699. Sep 1976. 37 p.
- 76352 Plot-processing system in computer U-200, (1). Hardware and software. (In Japanese).
— Kawarasaki, Yuuki; Shoji, Tokio.
— JAERI-M--6584. Jun 1976. 24 p.
- 76353 Graphic display and the programming. (In Japanese).
— Nakamura, Yasuhiro; Onuma, Yoshio.
— JAERI-M--6619. Jul 1976. 36 p.

MATHEMATICAL METHODS AND COMPUTER CODES

- 76354 Simulation code of reactor core heatup during LOCA. For BWR, second-version. (In Japanese).
— Abe, Kiyoharu; Sato, Kazuo.
— JAERI-M--6678. Aug 1976. 95 p.
- 76355 Nuclear code abstracts (1975 edition). (In Japanese).
— Akanuma, Makoto; Hirakawa, Takashi.
— A separate volume, (Vol. 1, 2).
— JAERI-M--6370. Feb 1976. 531 p.
- 76356 User's guide for FREG-3: a computer program to analyze pellet-cladding gap conductance in accordance with fuel-rod irradiation history. (In Japanese).
— Harayama, Yasuo; Izumi, Fumio; Fujita, Misao; Ishibashi, Akihiro*; Otsubo, Naoaki*.
— JAERI-M--6742. Oct 1976. 127 p.

- 76357 A computer program (FUGI) for design and operation of a conveyor type irradiator with multi-tier and multi-layer. (In Japanese).
 — Hoshi, Tatsuo; Aggarwal, K.S.*.
 — JAERI-M--6744. Oct 1976. 39 p.
- 76358 Code ACTIVE for calculation of the transmutation, induced activity and decay heat in neutron irradiation. (In Japanese).
 — Ioki, Kimihiro*; Harada, Yuhei*; Asami, Naoto*.
 — JAERI-M--6471. Mar 1976. 55 p.
- 76359 The off-line computation system for supervising performance of JOYO: JOYPAC system, 1. The concept of code system, the simplified calculation subsystem predicting the core characteristics, and the recording subsystem of JOYO: SMART and MASTOR codes.
 — Katsuragi, Satoru; Inoue, Teruji*; Shimizu, Akinao*; Yoshino, Fujio*; Suzuki, Masao*.
 — JAERI--1246. Oct 1976. 49 p.
- 76360 SPECT-series plot-programs for spectral data for the USC-3 computer system. (In Japanese).
 — Kawarasaki, Yuuki.
 — JAERI-M--6375. Jan 1976. 47 p.
- 76361 Implementation of the transient thermal-hydraulic analysis code RELAP-4, 1. Conversion to the FACOM 230/75 computer system. (In Japanese).
 — Kohsaka, Atsuo; Kumakura, Toshimasa*.
 — JAERI-M--6623. Jul 1976. 20 p.
- 76362 Error estimation of hybrid simulation method for basic heat-exchange model. (In Japanese).
 — Kudo, Kazuhiko*; Usui, Hozumi; Hara, Masao.
 — JAERI-M--6740. Oct 1976. 68 p.
- 76363 SP-2000: Program for calculating fine group neutron spectrum in multi-region cell and effective broad group constants.
 — Kuroi, Hideo; Tone, Tatsuzo.
 — JAERI--1240. Feb 1976. 27 p.
- 76364 ARCADIA: A comprehensive semi-automated system for cross section evaluation utilizing integral measurements.
 — Kuroi, Hideo; Nakamura, Yasuhiro; Onuma, Yoshio; Koyama, Kinji; Tone, Tatsuzo; Hirota, Jitsuya.
 — JAERI--1241. Feb 1976. 31 p.
- 76365 CIPER: a two- and three-dimensional perturbation code based on diffusion theory. (In Japanese).
 — Nakagawa, Masayuki; Tokuno, Yukio*.
 — JAERI-M--6722. Sep 1976. 46 p.
- 76366 On-line debugging of the plotter program by a graphic display. (In Japanese).
 — Nakamura, Yasuhiro; Onuma, Yoshio.
 — JAERI-M--6391. Feb 1976. 19 p.

- 76367 GSMOOT: universal subroutine for smoothing experimental data in graphic display. (In Japanese).
 — Nakamura, Yasuhiro; Onuma, Yoshio.
 — JAERI-M--6673. Aug 1976. 13 p.
- 76368 Graphic programming by the simplified GSP. (In Japanese).
 — Nakamura, Yasuhiro; Onuma, Yoshio.
 — JAERI-M--6711. Sep 1976. 30 p.
- 76369 Simulation code for beam trajectories in an ion source 'IONORB'. (In Japanese).
 — Ohara, Yoshihiro.
 — JAERI-M--6757. Oct 1976. 33 p.
- 76370 HEATR-FEM: a finite-element conduction code for transient thermal response of the fuel rod in axisymmetric and plane configurations. (In Japanese).
 — Ohnishi, Nobuaki.
 — JAERI-M--6665. Aug 1976. 73 p.
- 76371 Numerical code SPHEX for free boundary MHD equilibrium with legendre expansion method. (In Japanese).
 — Seki, Shogo; Maeda, Hikosuke; Kitsunozaki, Akio; Saito, Ryuta*.
 — JAERI-M--6734. Oct 1976. 48 p.
- 76372 A neutron-reflecting conical tube calculation code: FOCUS.
 — Shimooke, Takanori; Levine, M.M.*.
 — JAERI-M--6389. Feb 1976. 122 p.
- 76373 Development study on computer program HONEYCOMB for analyzing detailed nuclear characteristics of fast breeder reactor core. (In Japanese).
 — Suzuki, Tomoo.
 — JAERI-M--6677. Aug 1976. 97 p.
- 76374 The off-line computation system for supervising performance of JOYO: JOYPAC system, 2. The detailed calculation subsystem predicting the JOYO nuclear and thermo-hydraulic characteristics: HONEYCOMB, FDCAL and FATEC codes.
 — Suzuki, Tomoo; Hasegawa, Akira; Akimoto, Masayuki; Miyamoto, Yoshiaki; Katsuragi, Satoru.
 — JAERI--1247. Oct 1976. 78 p.
- 76375 ARCFIT-1, -2 and -3: Codes for revision of group constants for heavy nuclei of JAERI-fast set. (In Japanese).
 — Takano, Hideki; Ogawa, Shinichi*.
 — JAERI-M--6372. Jan 1976. 50 p.
- 76376 Improvement of the MEDUSA code for one-dimensional laser fusion analysis (MEDUSA-P) and sensitivity analysis of the energy gain. (In Japanese).
 — Takano, Hideki; Nakano, Ko*.
 — JAERI-M--6643. Jul 1976. 49 p.
- 76377 An ORACL program file for acquisition, storage and analysis of data in radiation measurement and in non-destructive measurement of nuclear material. (In Japanese).
 — Takeuchi, Norio; Yagi, Hideyuki; Gotoh, Hiroshi.
 — JAERI-M--6499. Mar 1976. 33 p.

- 76378 ORACL program file for acquisition, storage and analysis of data in radiation measurement and nondestructive measurement of nuclear material, vol. 2. (In Japanese).
— Yagi, Hideyuki; Takeuchi, Norio; Gotoh, Hiroshi.
— JAERI-M--6719. Sep 1976. 87 p.

MISCELLANEOUS

- 76379 Reactor Engineering Division annual report. (April 1, 1975 - March 31, 1976).
— Div. of Reactor Engineering.
— JAERI-M--6710. Sep 1976. 187 p.
- 76380 Report on operation, utilization and technical development of research reactors and Hot Laboratory. April 1, 1975 to March 31, 1976. (In Japanese).
— Div. of Research Reactor Operation.
— JAERI-M--6766. Oct 1976. 136 p.
- 76381 Catalogue of nuclear fusion codes - 1976.
— Div. of Thermonuclear Fusion Research; Div. of Large Tokamak Development.
— JAERI-M--6769. Oct 1976. 108 p.
- 76382 Design and safety features of commercial nuclear power plants in Japan, 1976 edition. (In Japanese).
— Izumi, Fumio; Harayama, Yasuo.
— JAERI-M--6732. Oct 1976. 181 p.
- 76383 Health physics and safety in JAERI, No. 18. April 1, 1975 - March 31, 1976. (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--6696. Oct 1976. 246 p.

Hashimoto, Masao	76128	Iida, Hiromasa*	76259	K
	76132	Iida, Shozo	76250	
	76288	Iijima, Susumu	76262	
	76289	Iijima, Tsutomu	76332	
Hashimoto, Shoji	76129	Iizuka, Hiroshi*	76222	
Hattori, Takamitsu	76229	Ikawa, Katsuichi	76200	
	76231	Ikawa, Kohji	76262	
Hayakawa, Naohiro	76130	Ikezawa, Yoshio	76232	
	76155		76236	
	76172		76237	
	76197	Ikezoe, Yasumasa	76137	
	76207		76138	
Hayashi, Kanae	76131		76159	
Hayashi, Teiji	76261		76174	
Hayashi, Toshikazu	76348		76298	
Hirabayashi, Makoto*	76091	Ikushima, Takeshi	76291	
Hirakawa, Takashi	76350		76303	
	76355	Imahashi, Tsuyoshi	76120	
Hirano, Kenmei	76300		76139	
Hirano, Mitsumasa	76291	Imai, Hisashi	76140	
Hirata, Mitsuho	76262	Inoue, Kenji	76081	
Hirayama, Toshio	76060	Inoue, Shuji	76026	
	76324	Inoue, Teruji*	76359	
Hirota, Jitsuya	76260	Ioki, Kimihiro*	76358	
	76364	Ise, Takeharu	76263	
Hisa, Isamu	76341		76264	
	76342		76275	
	76344	Ishibashi, Akihiro*	76290	
	76345		76356	
Honma, Kozo*	76132	Ishibashi, Teruo*	76162	
	76288	Ishigaki, Isao	76141	
Horikami, Kunihiro	76260		76158	
	76263	Ishigure, Kenkichi*	76147	
Horiuchi, Masato*	76193	Ishiguro, Misako	76351	
Hoshi, Tatsuo	76220	Ishiguro, Yukio	76027	
	76357	Iso, Shuichi	76133	
Hoshino, Akira	76133	Isozaki, Toshikuni	76201	
	76134	Itagaki, Tokiyoshi	76043	
Hoshino, Tadayama*	76189	Itagaki, Tokiyoshi*	76028	
	76346	Itami, Hiroharu	76196	
Hotta, Hiroshi	76098		76253	
	76178	Ito, Akihiko	76142	
	76179		76158	
			76341	
			76342	
			76343	
		Ito, Hitoshi	76222	
			76224	
		Ito, Mitsuo	76134	
		Itoh, Hiroshi	76278	
		Itoh, Noboru	76311	
		Itoh, Satoshi*	76082	
		Itoh, Takao*	76045	
		Itoh, Yasuyuki*	76275	
		Iwahori, Koji*	76266	
		Iwamoto, Kazumi	76199	
			76202	
			76212	
			76250	
			76261	
			76292	
			76293	
		Iwata, Tadao	76203	
			76208	
		Izui, Kazuhiko	76008	
			76013	
		Izumi, Fumio	76249	
			76290	
			76356	
			76382	
			76142	
			76194	
			76296	
			76143	
			76204	
			76029	
			76001	
			76030	
			76031	
			76047	
			76048	
			76050	
			76073	
			76233	
			76256	
			76257	
			76258	
			76265	
			76339	
			76032	
			76033	
			76187	
			76202	
			76250	
			76293	
			76278	
			76328	
			76329	
			76333	
			76336	
			76213	
			76144	
			76339	
			76042	
			76145	
			76146	
			76334	
			76027	
			76274	
			76282	
			76348	
			76359	
			76374	
			76318	
			76334	
			76323	
			76129	
			76241	
			76120	
			76087	
			76251	
			76252	
			76266	
			76294	
			76320	
			76321	
			76352	
			76360	
			76128	
			76132	
			76205	
			76288	
			76289	
			76009	
			76034	
			76035	
			76108	

I

Kazama, Noriaki*	76011	Kudo, Kazuhiko*	76362	Makuuchi, Keizo	76153
Kazumata, Yukio	76088	Kumagai, Katsuaki	76028		76154
	76204		76043		76155
Kikuchi, Akira	76202		76296	Mankin, Shuichi	76269
	76293		76323		76270
Kikuchi, Eisuke	76241	Kumakura, Toshimasa*	76361	Maruyama, Michio	76100
Kikuchi, Shiroh	76110	Kumazawa, Shigeru	76233	Maruyama, Yoichiro	76245
Kikuchi, Takeo	76036	Kume, Tamikazu	76219		76246
	76152		76223	Masaki, Norio	76209
Kikuchi, Yasuyuki	76267		76224	Matoba, Tohru	76028
	76295		76225		76043
	76314	Kurasawa, Toshimasa	76152		76044
Kim, Jung-Do*	76103		76211		76093
Kimura, Haruyuki	76069	Kurashige, Tetsuo*	76291		76323
Kimura, Hiroshi*	76268	Kurihara, Masayoshi	76214	Matsuda, Shinzaburo	76045
Kitadate, Kenji	76256	Kurita, Gen-ichi*	76039		76046
	76257	Kuriyama, Isamu	76049		76052
	76258		76114	Matsuda, Toshiaki	76057
	76265		76115		76096
Kitahara, Tanemichi	76296		76116	Matsuda, Yuji	76245
Kitani, Susumu	76234		76130		76246
	76238		76145	Matsui, Hisayuki*	76211
Kitsunezaki, Akio	76057		76146	Matsumoto, Masashi*	76237
	76096		76161	Matsuura, Shojiro	76297
	76097		76162	Matsuzaki, Yoshimi	76041
	76371		76207	Matsuzuru, Hideo	76156
Kizaki, Minoru	76206		76268		76341
Kobayashi, Hideo	76326	Kuroi, Hideo	76103		76342
Kobayashi, Iwao	76297		76363		76343
Kobayashi, Kensuke	76263		76364	Minaguchi, Tadayoshi*	76074
	76275	Kurokawa, Ryosuke	76256		76075
	76301		76258	Mitake, Susumu	76235
	76302		76265	Mitani, Hiroshi	76271
Kobayashi, Takeshi*	76235	Kuroki, Shuji*	76291		76272
Kobayashi, Tetsuro*	76037	Kushida, Tadae*	76228		76299
	76066			Miyajima, Kazutoshi	76194
	76067			Miyamoto, Yoshiaki	76303
	76080				76374
	76097			Miyasaka, Shunichi	76260
Kobayashi, Tomofumi*	76037			Miyata, Tejiro	76157
	76066			Miyoshi, Takekatsu*	76226
	76067			Mizoo, Nobutatsu	76276
	76080			Mizubayashi, Hiroshi	76054
	76097				76055
Kobayashi, Toshiaki	76174			Mizumoto, Motoharu	76325
	76298			Mizuno, Masayasu*	76085
Kodaira, Noboru*	76340			Mori, A.*	76102
Kodaira, Tuneo	76303			Mori, Hiroyuki	76074
Kohsaka, Atsuo	76361			Morimoto, Toshio*	76235
Koiwa, Masahiro*	76091			Morishita, Osamu*	76075
Kojima, Gen*	76147	Machi, Suel	76072	Morita, Yosuke	76158
Kojima, Katsumi*	76347		76191	Moriuchi, Shigeru	76326
Komaki, Kenichiro*	76100		76247	Moriuchi, Yasuyuki*	76334
Komaki, Yoshihide	76038	Machida, Chuji	76339	Moriyama, Noboru	76159
Komiya, Souji*	76085		76340		76341
Komukai, Bunsaku	76279	Maeda, Hideto*	76074		76342
Kondo, Ikuo	76279	Maeda, Hikosuke	76069	Motohashi, Haruhiko	76117
	76322		76087	Motoi, Soichiro*	76210
	76337		76371	Motojima, Kenji	76180
Kondo, Makoto	76337	Maeda, Mitsuru	76194	Mukaiyama, Takehiko	76276
Kondo, Tatsuo	76176	Maeda, Sho	76243	Mura0, Yoshio	76300
Kondoh, Umeo*	76045		76244	Muraoka, Susumu	76020
Konoshima, Shigeru	76021	Maekawa, Hiroshi	76040	Murata, Hiroshi	76348
Kosuge, Ikuo	76296		76062	Murata, Mikio	76232
Koyama, Kinji	76103	Maekawa, Mitsutomi*	76104		76236
	76364	Maeno, Masaki	76041		76237
Kubo, Kazuko	76204		76060	Muromura, Tadasumi	76160
Kubota, Masumitsu	76148		76324	Muto, Yasushi	76303
	76149	Maeta, Hiroshi	76042		
	76150		76208		
Kudo, Hiroshi	76151				

N

Nagai, Takeshi* 76178
 76179
 Nagami, Masayuki 76069
 Nagaoka, Yoshiharu 76259
 76273
 Nagasaki, Ryukichi 76205
 Naito, Yoshitaka 76104
 Nakagawa, Masayuki 76274
 76365
 Nakagawa, Tsuneo 76105
 76106
 Nakahara, Yasuaki 76026
 76260
 76275
 Nakajima, Hayato 76174
 76298
 Nakamura, Hiroo 76020
 76074
 Nakamura, Yasuhiro 76353
 76364
 76366
 76367
 76368
 Nakamura, Yukiharu* 76033
 76081
 Nakano, Ko* 76376
 Nakano, Masafumi 76276
 76277
 Nakase, Yoshiaki 76145
 76146
 76161
 76162
 76207
 76301
 76302
 76309
 76310
 Naoi, Jiro* 76334
 Narita, Hideo* 76109
 76274
 Narusawa, Tadashi* 76085
 Naruse, Yuji 76245
 76246
 Nasu, Shoichi 76211
 Nihira, Takeshi* 76203
 Niitsuma, Yasushi 76300
 Ninomiya, Hiromasa 76001
 76030
 76031
 76047
 76048
 76050
 76073
 Nishi, Masazumi* 76088
 Nishida, Takahiko 76260
 Nishimura, Hideo 76262
 76267
 Nishimura, Koichi 76158
 Nishio, Gunji 76234
 76238
 Noda, Nobuaki* 76050
 76073
 Nomura, Shinzo 76020
 76140
 Nomura, Sueo 76196
 76303

O

Oba, Toshihiro 76201
 Obu, Makoto 76319
 Odajima, Akira* 76049
 76145
 76146
 76161
 76162
 Ogata, Atsushi 76050
 76051
 76073
 Ogawa, Kiyoyuki 76212
 Ogawa, Shinichi* 76375
 Ogura, Jiro* 76268
 Ogura, Kenji* 76240
 Ohara, Yoshihiro 76045
 76052
 76369
 Ohga, Tokumichi 76045
 Ohkubo, Makio 76327
 Ohkubo, Minoru 76074
 Ohmichi, Toshihiko 76163
 Ohnishi, Nobuaki 76370
 Ohno, Hideo 76163
 Ohta, Mitsuru 76074
 76075
 Ohtsu, Hitoshi 76008
 Ohtsuka, Hideo 76069
 Ohtsuka, Hidewo 76085
 Ohuchi, Masahiro 76206
 Ohwada, Ken 76164
 Okada, Minoru 76107
 Okada, Toshio 76143
 Okamoto, Masao 76002
 76053
 Okamura, Hiroyuki* 76074
 76075
 Okazaki, Masanori* 76216
 76217
 Okazaki, Motoaki 76309
 76310
 Okazawa, Yoshishige* 76219
 Oku, Tatsuo 76198
 Okubo, Hiroshi 76142
 Okuda, Motoi* 76211
 Okuda, Shigeo 76042
 76054
 76055
 76208
 Omichi, Hideki 76165
 Onishi, Takao* 76268
 Onuma, Yoshio 76353
 76364
 76366
 76367
 76368
 Ooka, Norikazu 76253
 Osaki, Hideki 76312
 Osugi, Toshitaka 76262
 Otomo, Takashi 76128
 76132
 76288
 76289
 Otsu, Hitoshi 76013
 Otsubo, Naoaki* 76356
 Ouchi, Kinji 76160
 Ouchi, Koki 76341
 76342

Ouchi, Kouki 76344
 76345
 Oyamada, Rokuro 76259
 Ozawa, Kunio 76003
 76009
 76016
 76034
 76035
 76091
 76100
 76108

P

Pepper, D.C.* 76131

R

Ryufuku, Hiroshi 76056

S

Saeki, Masakatsu 76167
 76168
 Saigo, Masao* 76235
 Saijo, Yasuhiro* 76291
 Saito, Mituo 76250
 Saito, Ryuta* 76057
 76096
 76097
 76371
 Saito, Shinichi* 76193
 Saito, Takao* 76240
 Sakai, Eiji 76278
 76328
 76329
 76333
 76336
 Sakai, Haruyuki 76206
 Sakamoto, Masanobu 76117
 Sako, Kiyoshi 76092
 Sakumoto, Akihisa 76157
 Sakurada, Ichiro 76143
 Sakurai, Fumio 76279
 76322
 Sakurai, Tsutomu 76169
 Sasaki, Takashi 76175
 Sasaki, Teikichi 76058
 76059
 Sasaki, Yasuichi 76140
 76198
 Sasamoto, Nobuo 76330
 Sasuga, Tsuneo 76170
 Sato, Hiroaki* 76247
 Sato, Kazuo 76354
 Sato, Shoichi 76137
 76138
 76159
 76174
 76298
 Sato, Tadashi 76171

Sato, Tadashi*	76060	Shindo, Ryuichi	76314		
	76324	Shinohara, Yoshikuni	76269		
Sato, Tomotaro	76218	Shiraishi, Kensuke	76071		
	76219		76078	Tabata, Yoneho*	76147
	76220		76213	Tachibana, Hiroyuki	76223
	76222	Shiraishi, Yoshihiro*	76228		76225
	76223	Shirakata, Hirofumi	76052	Tachikawa, Enzo	76167
	76224		76077		76168
	76225		76082		76180
	76227	Shirakata, Hirohumi	76045		76181
	76228	Shirakata, Keisho	76319	Tachikawa, Noboru	76120
Sato, Yoshiki	76210		76332		76248
Seguchi, Tadao	76072	Shiratori, Tetsuo	76234	Tachimori, Syoichi	76182
	76155	Shizuma, Kiyoshi*	76333	Tagawa, Hiroaki	76183
	76172	Shoji, Tokio	76352		76209
	76241	Sobajima, Makoto	76239	Taji, Yukichi	76026
	76087		76242		76260
Seki, Masahiro	76057		76309	Tajima, Satoshi	76334
Seki, Shogo	76096		76310	Takada, Junichi	76234
	76097	Soda, Kunihisa	76280		76238
	76371		76312	Takahashi, Ichiro	76214
Seki, Susumu	76344	Sometani, Taro*	76070	Takahashi, Junzo*	76091
	76345	Sone, Kazuho	76071	Takahashi, Koki	76043
	76022		76085		76077
Seki, Yasushi	76023	Sudo, Kenji	76206		76082
	76024	Sudo, Yukio	76300	Takai, Yasuo*	76216
	76025	Sudoh, Takashi	76300		76217
	76040	Sugawara, Tohru*	76045	Takano, Hideki	76375
	76061	Sugawara, Toru*	76082		76376
	76062	Sugie, Tatsuo	76032	Takano, Hiroyuki*	76220
	76063	Sugimoto, Jun	76300	Takashima, Tetsuo	76074
	76064	Sugiyama, Yasuharu	76100		76075
	76065		76110	Takaya, Junichi*	76235
	76109	Suwa, Takeshi	76072		76240
Sekiguchi, Akio*	76175	Suzuki, Katsuo	76235	Takeda, Katsuhiko	76279
Sekine, Toshiaki	76118		76240	Takeda, Tatsuoiki	76037
	76173	Suzuki, Kazuya	76165		76076
	76331	Suzuki, Kunihiko	76291		76080
Sekiya, Hiroshi	76191	Suzuki, Masao*	76359		76082
Senoo, Muneaki	76120	Suzuki, Michiaki	76303	Takeda, Tsuneo	76313
	76248	Suzuki, Mitsuhiro	76242	Takehisa, Masaaki	76072
			76309		76170
Sezaki, Katsuji	76322		76310		76241
Sezaki, Katsuzi	76279		76255	Takemoto, Masanori*	76235
Shiba, Masayoshi	76242	Suzuki, Motoe	76177	Takeuchi, Hiroshi	76077
	76309	Suzuki, Motoye	76178	Takeuchi, Kiyoshi*	76111
	76310	Suzuki, Nobutake	76179	Takeuchi, Motoyoshi	76258
	76312		76021		76265
Shibata, Takemasa	76045	Suzuki, Norio	76082	Takeuchi, Norio	76377
	76079		76324		76378
Shibuya, Kazuo*	76104		76026	Tamaki, Masayoshi*	76211
Shikata, Eiji	76186	Suzuki, Tadakazu	76260	Tamura Sanae	76097
	76187		76281	Tamura, Naoyuki	76095
	76188	Suzuki, Tomoo	76282		76172
Shimada, Ryuiti	76037		76373		76334
	76066		76374	Tamura, Nobuhiro*	76291
	76067		76190	Tamura, Nori	76184
	76080	Suzuki, Toshio	76317		76185
	76097		76214	Tamura, Sanae	76037
Shimamoto, Susumu	76068	Suzuki, Yasufumi	76001		76066
Shimazu, Akira*	76235	Suzuki, Yasuo	76030		76067
Shimizu, Akinao*	76359		76031		76080
Shimizu, Masatsugu	76075		76047	Tanaka, Kichizo	76151
	76311		76048	Tanaka, Mitsuo	76078
Shimizu, Osamu*	76226		76050	Tanaka, Ryuichi	76241
Shimizu, Saburo	76174		76051		76334
	76298		76073	Tanaka, Shigeru	76045
Shimizu, Yuichi	76175				76052
Shimomura, Yasuo	76069				76079
Shimooke, Takanori	76372				
Shindo, Masami	76176				

Tanaka, Shun-ichi 76111
 76335
 Tanaka, Susumu 76220
 Tanase, Masakazu 76180
 76186
 76187
 76188
 Tani, Keiji 76037
 76066
 76067
 76080
 76097
 Tani, Yutaro* 76286
 Tanifuji, Takaaki 76215
 Tasaka, Kanji 76242
 76267
 76283
 76314
 Tatsuta, Hatsumi 76233
 Tazima, Teruhiko 76021
 76033
 76080
 76081
 Tensho, Kiyoshi 76216
 76217
 Terada, Hiromi 76328
 76329
 76336
 Terasawa, Michitaka* 76009
 76034
 76035
 76108
 Toi, Kazuo* 76082
 Tojo, Takao 76337
 Tokuno, Yukio* 76365
 Tomimitsu, Hiroshi 76008
 76083
 Tominaga, Hiroshi 76120
 76248
 Tone, Hirohito 76315
 Tone, Tatsuzo 76084
 76092
 76363
 76364
 Toya, Tomiyuki* 76117
 Toyoshima, Noboru 76296
 Tsujimura, Shigeo 76038
 Tsujino, Takeshi 76189
 76346
 Tsukada, Kineo 76112
 Tsukakoshi, Osamu* 76085
 Tsuruta, Harumichi 76297
 Tuda, Takasi 76086

U

Uchida, Masaaki 76284
 Uchida, Toshio* 76074
 Ueda, Noriaki* 76069
 76087
 Ueda, Syuzo 76201
 Ueda, Yoshifumi* 76088
 Uematsu, Kunihiko* 76205
 Uga, Takeo 76303
 Ugajin, Mitsuhiro 76214
 Ui, Yasunori 76206
 Umeda, Keiji* 76220
 Umezawa, Hirokazu 76190
 Usui, Hozumi 76362

W

Wachi, Hiroshi 76147
 Wada, Hidenori* 76216
 76217
 Wada, Takeshi 76114
 76115
 76191
 Wada, Takeshi* 76116
 Wadachi, Yoshiki 76156
 76341
 76342
 76343
 76347
 Wakatani, Masahiro 76089
 76090
 Washino, Masamitsu 76157
 76178
 76179
 76247
 Watanabe, Hiromasa 76241
 Watanabe, Hiroshi 76218
 76219
 76220
 76224
 76226
 76227
 76228
 Watanabe, Hiroshi* 76094
 Watanabe, Kazuo 76192
 Watanabe, Tsutomu* 76056
 Watanabe, Yuhei 76158
 Watanuki, Takashi 76241

Y

Yabe, Akira 76229
 76231
 Yagi, Eiji* 76193
 76194
 Yagi, Hideyuki 76377
 76378
 Yamabayashi, Hisamichi 76254
 Yamachi, Iwao* 76334
 Yamada, Masaharu 76316
 Yamada, Masao* 76235
 Yamada, Rayji 76249
 76255
 76290
 Yamada, Tadanori 76296
 Yamagishi, Shigeru 76195
 76215
 Yamaguchi, Sadaei* 76091
 Yamamoto, Katsumune 76196
 Yamamoto, Masahiro 76074
 76075
 Yamamoto, Nobuo 76312
 Yamamoto, Shin 76069
 Yamane, Shigeru* 76049
 Yamato, Harumi* 76084
 76092
 Yamauchi, Toshihiko 76043
 Yamauchi, Toshihiko* 76093
 Yano, Syukuro* 76077
 76082
 Yashiro, Tsutomu* 76094
 Yasuda, Hideshi 76258
 76265
 Yasukawa, Shigeru 76314
 Yoda, Osamu 76049
 76095
 76145
 76146
 76162
 Yokomizo, Hideaki* 76057
 76096
 Yokoo, Hiroshi 76296
 Yokotsuka, Koki* 76228
 Yoshida, Hiroyuki 76262
 76285
 76314
 Yoshida, Kenzo 76165
 76241
 76349
 Yoshida, Yoshikazu 76232
 76236
 76237
 Yoshida, Yoshikazu* 76037
 76066
 76067
 76080
 76097
 Yoshii, Fumio 76142
 76197
 Yoshino, Fujio* 76359

CORPORATE AUTHOR INDEX

Committee on the Analytical Chemistry of Nuclear
Fuels and Reactor Materials
76119

Div. of Health Physics and Safety
76383

Div. of Large Tokamak Development
76005
76381

Div. of Reactor Engineering
76379

Div. of Research Reactor Operation
76380

Div. of Thermonuclear Fusion Research
76006
76381

Fluorine Chemistry Lab.
76124

Food Irradiation Development Lab.
76221

Fuel Reprocessing Lab.
76121
76122
76123
76124
76125
76126
76127

Fusion Reactor System Lab.
76014

Health Physics and Safety Sect., Oarai
76383

NSRR Operation Sect.
76304

Office of Safety and Control, Tokyo
76383

Osaka Lab. for Radiation Chemistry
76166

Reactivity Accident Lab.
76304

Reactor Safety Lab. I
76305
76306
76307
76308

Safety Sect., Takasaki
76383

Waste Management and Decontamination Sect., Oarai
76383

REPORT NUMBER INDEX

JAERI				JAERI-M	
JAERI-1240	76363	JAERI-M-6424	76326	JAERI-M-6613	76240
JAERI-1241	76364	JAERI-M-6431	76045	JAERI-M-6616	76027
JAERI-1242	76119	JAERI-M-6432	76020	JAERI-M-6619	76353
JAERI-1243	76169	JAERI-M-6438	76052	JAERI-M-6623	76361
JAERI-1244	76339	JAERI-M-6451	76037	JAERI-M-6626	76249
JAERI-1245	76274	JAERI-M-6453	76084	JAERI-M-6628	76320
JAERI-1246	76359	JAERI-M-6455	76245	JAERI-M-6630	76327
JAERI-1247	76374	JAERI-M-6457	76342	JAERI-M-6631	76290
JAERI-1248	76267	JAERI-M-6460	76024	JAERI-M-6632	76348
		JAERI-M-6467	76080	JAERI-M-6635	76304
		JAERI-M-6468	76031	JAERI-M-6636	76106
		JAERI-M-6469	76066	JAERI-M-6639	76025
		JAERI-M-6470	76097	JAERI-M-6643	76376
		JAERI-M-6471	76358	JAERI-M-6646	76067
		JAERI-M-6474	76039	JAERI-M-6647	76021
		JAERI-M-6475	76022	JAERI-M-6656	76047
		JAERI-M-6476	76028	JAERI-M-6661	76273
		JAERI-M-6480	76293	JAERI-M-6662	76032
		JAERI-M-6484	76092	JAERI-M-6663	76244
JAERI-M-5984	76102	JAERI-M-6485	76124	JAERI-M-6664	76127
JAERI-M-6323	76050	JAERI-M-6486	76125	JAERI-M-6665	76370
JAERI-M-6324	76030	JAERI-M-6487	76193	JAERI-M-6666	76005
JAERI-M-6326	76286	JAERI-M-6488	76194	JAERI-M-6667	76311
JAERI-M-6329	76247	JAERI-M-6491	76264	JAERI-M-6668	76173
JAERI-M-6330	76069	JAERI-M-6492	76332	JAERI-M-6669	76184
JAERI-M-6331	76085	JAERI-M-6494	76103	JAERI-M-6670	76014
JAERI-M-6332	76250	JAERI-M-6495	76040	JAERI-M-6671	76068
JAERI-M-6337	76347	JAERI-M-6496	76276	JAERI-M-6672	76023
JAERI-M-6339	76288	JAERI-M-6497	76333	JAERI-M-6673	76367
JAERI-M-6340	76302	JAERI-M-6498	76329	JAERI-M-6677	76373
JAERI-M-6343	76053	JAERI-M-6499	76377	JAERI-M-6678	76354
JAERI-M-6346	76334	JAERI-M-6501	76246	JAERI-M-6684	76012
JAERI-M-6348	76111	JAERI-M-6504	76277	JAERI-M-6685	76043
JAERI-M-6351	76275	JAERI-M-6505	76315	JAERI-M-6688	76279
JAERI-M-6352	76316	JAERI-M-6507	76298	JAERI-M-6689	76070
JAERI-M-6354	76112	JAERI-M-6508	76029	JAERI-M-6690	76255
JAERI-M-6355	76206	JAERI-M-6511	76287	JAERI-M-6693	76096
JAERI-M-6357	76158	JAERI-M-6512	76305	JAERI-M-6694	76323
JAERI-M-6358	76071	JAERI-M-6513	76306	JAERI-M-6696	76383
JAERI-M-6359	76006	JAERI-M-6523	76336	JAERI-M-6699	76351
JAERI-M-6361	76341	JAERI-M-6531	76073	JAERI-M-6701	76257
JAERI-M-6362	76309	JAERI-M-6536	76330	JAERI-M-6702	76166
JAERI-M-6363	76241	JAERI-M-6538	76177	JAERI-M-6703	76242
JAERI-M-6364	76344	JAERI-M-6539	76230	JAERI-M-6707	76307
JAERI-M-6365	76109	JAERI-M-6540	76063	JAERI-M-6708	76312
JAERI-M-6370	76355	JAERI-M-6541	76314	JAERI-M-6709	76308
JAERI-M-6371	76350	JAERI-M-6542	76289	JAERI-M-6710	76379
JAERI-M-6372	76375	JAERI-M-6548	76221	JAERI-M-6711	76368
JAERI-M-6373	76263	JAERI-M-6549	76265	JAERI-M-6712	76324
JAERI-M-6375	76360	JAERI-M-6550	76322	JAERI-M-6714	76291
JAERI-M-6376	76292	JAERI-M-6551	76300	JAERI-M-6717	76202
JAERI-M-6380	76105	JAERI-M-6552	76001	JAERI-M-6718	76325
JAERI-M-6382	76345	JAERI-M-6555	76337	JAERI-M-6719	76378
JAERI-M-6384	76010	JAERI-M-6558	76036	JAERI-M-6720	76044
JAERI-M-6389	76372	JAERI-M-6572	76074	JAERI-M-6722	76365
JAERI-M-6390	76254	JAERI-M-6577	76060	JAERI-M-6723	76087
JAERI-M-6391	76366	JAERI-M-6584	76352	JAERI-M-6726	76064
JAERI-M-6392	76121	JAERI-M-6585	76078	JAERI-M-6727	76057
JAERI-M-6393	76122	JAERI-M-6587	76093	JAERI-M-6728	76285
JAERI-M-6396	76303	JAERI-M-6592	76126	JAERI-M-6729	76262
JAERI-M-6399	76313	JAERI-M-6593	76165	JAERI-M-6732	76382
JAERI-M-6400	76235	JAERI-M-6597	76251	JAERI-M-6733	76075
JAERI-M-6401	76002	JAERI-M-6598	76294	JAERI-M-6734	76371
JAERI-M-6405	76123	JAERI-M-6601	76128	JAERI-M-6736	76259
JAERI-M-6406	76174	JAERI-M-6602	76132	JAERI-M-6739	76258
JAERI-M-6408	76223	JAERI-M-6605	76077	JAERI-M-6740	76362
JAERI-M-6421	76183	JAERI-M-6606	76081	JAERI-M-6742	76356
JAERI-M-6423	76338				

JAERI-M-6744	76357
JAERI-M-6749	76343
JAERI-M-6751	76207
JAERI-M-6753	76318
JAERI-M-6757	76369
JAERI-M-6758	76253
JAERI-M-6761	76033
JAERI-M-6762	76041
JAERI-M-6766	76380
JAERI-M-6769	76381
JAERI-M-6777	76026
JAERI-M-6778	76079
JAERI-M-6783	76065
JAERI-M-6784	76349
JAERI-M-6785	76107

Patents

German Patents

Pat-G-31	A process for the producing of polyester polymer. Araki K., et al.,	No.1520121
----------	--	------------

Japanese Patents

Pat-J-560	Stabilization method for uranium carbide. Tagawa H., et al.,	No.764426
Pat-J-561	Process for production method of uranium carbide. Tagawa H., et al.,	No.766584
Pat-J-562	Measurement tool for cracks on metal surface by electric resistance. Fujimura S., et al.,	No.1077705
Pat-J-563	Cooling structure for nuclear reactor. Abe Y., et al.,	No.769370
Pat-J-564	Structure for sealing valve shaft. Furukawa K., et al.,	No.769104
Pat-J-565	Process for preparing of tritium. Furukawa K.,	No.769106
Pat-J-566	Decontamination method for heavy water type reactor core or pipes. Motojima K., et al.,	No.769105
Pat-J-567	Process for production method of electric sheath heater. Sako K., et al.,	No.770224
Pat-J-568	Process for solidification method of radioactive aqueous solution. Aikawa H., et al.,	No.771332
Pat-J-569	Process for wet reprocessing method of spent fuel. Aochi T., et al.,	No.777683
Pat-J-570	Process for production of uranium carbonitride. Ugajin M., et al.,	No.782132
Pat-J-571	Fuel element of nuclear reactor. Yasuno T.,	No.782136

Pat-J-572	Process for vapor deposition method of zirconium carbide. Ikawa K., et al.,	No.781302
Pat-J-573	Irradiation capsule. Arigane K.,	No.1094004
Pat-J-574	Container for scraps of nuclear fuel assembly. Shiratori T., et al.,	No.1094006
Pat-J-575	Spacer of nuclear fuel assembly. Nozawa M., et al.,	No.784528
Pat-J-576	Grinder for making test pieces for microscope. Sakai H., et al.,	No.1095152
Pat-J-577	Connector for pipes. Kimura K., et al.,	No.1097610
Pat-J-578	Extinction apparatus for sodium fire. Furukawa K., et al.,	No.1095153
Pat-J-579	Alarm dose meter for criticality incident. Minami K., et al.,	No.789855
Pat-J-580	Process for production of nuclear fuel rod. Okubo K., et al.,	No.788707
Pat-J-581	Measurement method for cracks on metal surface by electric resistance. Fujimura S., et al.,	No.789736
Pat-J-582	Purification method for molten sodium. Furukawa K., et al.,	No.793989
Pat-J-583	Diaphragm seal valve for liquid metal. Furukawa K., et al.,	No.794691
Pat-J-584	Spacer of nuclear fuel assembly. Morishima A., et al.,	No.794690
Pat-J-585	Can for failed nuclear fuel. Sawai S., et al.,	No.1108434
Pat-J-586	Process for preparing of radioactive iodine. Shikata E., et al.,	No.796148
Pat-J-587	Opener for irradiated capsule. Matsumoto S., et al.,	No.1110931
Pat-J-588	Multiamplifier for nuclear instrumentation. Wakayama N., et al.,	No.799225
Pat-J-589	Control method for neutron supercritical multiplying system.	

	Tomabechi A.,	No.799214
Pat-J-590	Capsule opener.	
	Inoue T., et al.,	No.1114174
Pat-J-591	Imitation heater of nuclear fuel rod.	
	Sako K., et al.,	No.1027450
Pat-J-592	Cooling method of liquid metal cooled reactor.	
	Torikai K.,	No.802837
Pat-J-593	Electric heater.	
	Murata H., et al.,	No.1118447
Pat-J-594	Process for production of Pu-Metal.	
	Yahata H., et al.,	No.805865
Pat-J-595	Heat exchanger method of high temperature gas-cooled reactor.	
	Torikai K.,	No.810672
Pat-J-596	Process for production of lump polymer.	
	Kaetsu I., et al.,	No.764427
Pat-J-597	Instrumented capsule for pneumatic tube.	
	Yamazaki Y., et al.,	No.764982
Pat-J-598	Process for production of ethylene fluorides- propylen co-polymer.	
	Tabata Y., et al.,	No.767178
Pat-J-599	Graft polymerization method of polyester fiber.	
	Sakurada I., et al.,	No.766583
Pat-J-600	Preventive method against dirt of polyester fiber.	
	Sakurada I., et al.,	No.766582
Pat-J-601	Cross-linking method of vinyl chlorides resin.	
	Araki K., et al.,	No.766585
Pat-J-602	Process for preparing of heat resisted foam plastics.	
	Mitsui H., et al.,	No.767755
Pat-J-603	Process for preparing of cross-linking polymer with chlorides.	
	Hagiwara M., et al.,	No.767756
Pat-J-604	Cross-linking polymerization method of polyethylen with ionizing radiation.	
	Kagiya S., et al.,	No.767754

Pat-J-605	Plywood composed woods-plastics and basic materials.	
	Gotoda M., et al.,	No.769299
Pat-J-606	Polyethylene-Latices.	
	Takehisa M., et al.,	No.770853
Pat-J-607	Cross-linking polymerization method of acrylic monomer.	
	Mitsui H., et al.,	No.771509
Pat-J-608	Improvement method of polyester fiber.	
	Sakurada I., et al.,	No.777684
Pat-J-609	Process for preparing of radiation source.	
	Tanaka S., et al.,	No.777682
Pat-J-610	Irradiation instrument for under water irradiation.	
	Tanaka S., et al.,	No.782133
Pat-J-611	Resin composition made by ionizing radiation cross-linking.	
	Mitsui H., et al.,	No.781303
Pat-J-612	Irradiation instrument for under water irradiation.	
	Tanaka S.,	No.782134
Pat-J-613	Improvement method of polyester resin.	
	Araki K., et al.,	No.781932
Pat-J-614	Irradiation instrument for under water irradiation.	
	Kasamatsu T., et al.,	No.782135
Pat-J-615	Cross-linking improvement method of poly α -olefine.	
	Hagiwara M., et al.,	No.781933
Pat-J-616	Process for production of polybutadiene derivative.	
	Araki K., et al.,	No.784530
Pat-J-617	Silicone releasing agent.	
	Araki K., et al.,	No.784529
Pat-J-618	Partially reduction method for polychloro-compound.	
	Abe T., et al.,	No.785474

Pat-J-619	Process for production of polytetrafluoroethylene wax. Kagiya S., et al.,	No.785592
Pat-J-620	Track selection instrument for radiation source traveling. Tanimoto H., et al.,	No.786506
Pat-J-621	Radiation curing method for paint compositions. Gotoda M., et al.,	No.789876
Pat-J-622	Container for radioisotope. Tanaka S.,	No.788206
Pat-J-623	Cross-linking polymerization method. Mitsui H., et al.,	No.791335
Pat-J-624	Prevention method against electrification or method for giving hydrophilic property in polyester fiber. Okada N., et al.,	No.793164
Pat-J-625	Solid state polymerization method. Ito A., et al.,	No.796507
Pat-J-626	Process for production of organic-silicon compound.	No.803671
Pat-J-627	Process for production of compound resin. Okubo H., et al.,	No.802838
Pat-J-628	Process for ultraviolet ray cross-linking polymerization of resin. Kagiya S., et al.,	No.807640
Pat-J-629	Process for production of oxymethylene polymer. Ito A., et al.,	No.810707

U. S. Patents

Pat-US-92	Method of producing thermally stable uranium carbonitrides. Ugajin M., et al.,	No.3892838
Pat-US-93	Stream reformer for hydrocarbons. Nozawa M., et al.,	No.3899420

Pat-US-94	A process for producing of ethylene fluorides-propylen fluorides co-polymer. Tabata Y., et al.,	No.3892641
Pat-US-95	A novel process for preparing of calcium sulfite. Machi S., et al.,	No.3901778
Pat-US-96	Resin compositions made by radiation curing. Gotoda M., et al.,	No.3909379
Pat-US-97	A novel cross-linking method of vinyl chlorides. Araki K., et al.,	No.3912605
Pat-US-98	Polymerization method of tetraoxane. Yoshida M., et al.,	No.3917563
Pat-US-99	Improvement method for polyester fiber. Okada N., et al.,	No.3926551
Pat-US-100	A process for producing of resin. Ito A., et al.,	No.3929602
Pat-US-101	Fiber reinforced plastic flat plates. Yotsumoto K., et al.,	No.3930098
Pat-US-102	Process for preparing of oxymethylene polymer. Ito A., et al.,	No.3930972
Pat-US-103	Composition comprising gypsum/calcium nitrite. Machi S., et al.,	No.3933731
Pat-US-104	Process for solid state polymerization. Kaetu I., et al.,	No.3935292
Pat-US-105	Process for preparing polytetrafluoro-ethylene dispersion. Machi S., et al.,	No.3941671

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.