

Technical Publications
by JAERI Staff

from January 1973
to December 1973

March 1974

JAERI Reports and the Availability

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

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Technical Publications by JAERI Staff from January 1973 to December 1973

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

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

March 1974

Division of Technical Information
Japan Atomic Energy Research Institute

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

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

1974年3月

日本原子力研究所
技術情報部

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Subject Categories

- AC0** 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
- BC0** 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
- CD0** 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
- DO0** ISOTOPES, ISOTOPE AND RADIATION APPLICATIONS
- D10** ISOTOPES AND RADIATION SOURCES
- D11 Production of Enriched Uranium
- D12 Production of Heavy Water
- D13 Other Isotope Production and Enrichment
- D14 Radiation Sources
- D15 Radiation Source Metrology
- D20** ISOTOPE AND RADIATION APPLICATIONS
- D21 Power Production
- D22 Industrial Applications, Radiometric
- D23 Industrial Applications, Radiation Processing
- D24 Tracer Techniques
- 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 Subcritical 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

- 73001 Effect of pressure on the order-disorder transition temperature of vacancies in NiVTi_2S_4 .
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- 73004 A generalized Hartree approximation and integral equations for correlations in quantum fluids.
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- 73005 Integral equations for fluids with long-range and short-range potentials. Application to a charged particle system.
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- 73007 Static and dynamic structure factors of liquid metals. The properties of liquid metals.
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 - 2. International conference on the properties of liquid metals. Tokyo, Japan. 3 Sep 1972.
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- 73010 Leak test in JFT-2.
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- 73013 Dielectric relaxation in ferroelectric $\text{AgNa}(\text{NO}_2)_2$.
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- 73014 On polydispersive nature of dielectric relaxation in some ferroelectrics.
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- 73044 Self diffusion of fluorine in molten Li_2BeF_4 . (In Japanese).
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- 73046 Design and test of the driving mechanism for a dynamic limiter. (In Japanese).
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- 73058 Singularities of the vacuum magnetic field around a noncircular plasma cylinder.
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- 73063 Ni core polarizabilities of the 8^+ and 6^+ states in ^{210}Po .
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NEUTRON AND NUCLEAR PHYSICS

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- 73073 Conditions of fast multiplying systems for existence of the time eigenvalue of the fundamental mode.
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