

Technical Publications
by JAERI Staff

from January 1974
to December 1974

March 1975

JAERI Reports and the Availability

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Technical Publications by JAERI Staff from January 1974 to December 1974

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Approximately 370 journal articles, papers at meetings, reports and books are given, which have been published by personnel of JAERI from January 1974 to December 1974. 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 1975

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(1974年1月~1974年12月)

1974年1月から1974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370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。

1975年3月

日本原子力研究所
技術情報部

TABLE OF CONTENTS

General Physics	1
Neutron and Nuclear Physics	4
Chemistry	5
Materials	15
Earth Sciences	18
All Effects and Various Aspects of External Radiation in Biology	18
Radionuclide Effects and Kinetics	18
Applied Life Sciences	18
Health, Safety and Environment	19
Isotopes and Radiation Sources	20
Isotopes and Radiation Applications	20
Engineering	21
Nuclear Reactors (General)	22
Reactor Types	25
Instrumentation	26
Waste Management	27
Economics	27
Nuclear Documentation	27
Mathematical Methods and Computer Codes	28
Miscellaneous	30
Personal Author Index	31
Corporate Author Index	36
Report Number Index	37
Patents	38

Subject Categories

A00	<u>PHYSICAL SCIENCES</u>	E00	<u>ENGINEERING AND TECHNOLOGY</u>
A10	GENERAL PHYSICS	E10	ENGINEERING
A11	Mathematical and General Theoretical Physics	E11	Thermodynamics and Fluid Flow
A12	Atomic and Molecular Physics	E12	Cryogenics
A13	Solid-State and Fluid Physics	E13	Structures and Equipment
A14	Plasma Physics and Thermonuclear Reactions	E14	Nuclear Explosions
A15	Astrophysics and Cosmology, Cosmic Radiation	E15	Facilities for Handling of Radioactive Materials
A16	Direct Energy Conversion	E16	Accelerators (whether for Particle Research or not)
A17	Low-Temperature Physics	E17	Materials Testing
A20	HIGH ENERGY PHYSICS	E20	NUCLEAR REACTORS (GENERAL)
A21	Elementary Particles (Theory)	E21	Reactor Theory and Calculation
A22	Elementary Particles (Experimental)	E22	Reactor Components and Accessories
A30	NEUTRON AND NUCLEAR PHYSICS	E23	Reactor Fuels
A31	Neutron Physics	E24	Reactor Control Systems
A32	Radiation Physics	E30	REACTOR TYPES
A33	Nuclear Theory	E31	Power Reactors, Non-Breeding, Light-Water Moderated, Boiling Water Cooled (BWR etc. types)
A34	Nuclear Properties and Reactions	E32	Power Reactors, Non-Breeding, Light-Water Moderated, Non-Boiling Water Cooled (PWR etc. types)
B00	<u>CHEMISTRY, MATERIALS AND EARTH SCIENCES</u>	E33	Power Reactors, Non-Breeding, Graphite-Moderated (GCR, AGR, HTGR etc. types)
B10	CHEMISTRY	E34	Power Reactors, Non-Breeding, Otherwise Moderated or Unmoderated
B11	Chemical and Isotopic Analysis	E35	Power Reactors, Breeding
B12	Inorganic, Organic and Physical Chemistry	E36	Research and Test Reactors, including Experimental Reactors (Zero Power Reactors and Subcritical Assemblies) and Training Reactors
B13	Radiochemistry and Nuclear Chemistry	E37	Production Reactors (Producing Fissionable Materials), Irradiation Reactors such as Chemonuclear Reactors, Isotope Production Reactors, Tritium Production Reactors, Materials Testing Reactors, Material Processing Reactors
B14	Radiation Chemistry	E38	Mobile, Propulsion, Transportable and Package Reactors
B15	Corrosion	E40	INSTRUMENTATION
B16	Fuel Processing and Reprocessing	E41	Particle and Radiation Detection and Measuring Instruments and Methods
B20	MATERIALS	E42	Other Nuclear Instrumentation and Methods of Measurement
B21	Metals and Alloys (Production and Fabrication)	E43	Radiation Effects on Instruments, Components or Electronic Devices
B22	Metals and Alloys (Physical Properties and Structure)	E50	WASTE MANAGEMENT
B23	Ceramics and Cermets	E51	Waste Treatment
B24	Other Materials	E52	Waste Disposal
B25	Radiation Effects on Physical Properties of Materials	F00	<u>OTHER ASPECTS OF NUCLEAR ENERGY</u>
B30	EARTH SCIENCES	F10	ECONOMICS
B31	Land	F11	Nuclear Power Economics
B32	Water	F12	Reactor Fuel Economics
B33	Atmosphere	F13	Economics of Isotope and Radiation Applications
C00	<u>LIFE SCIENCES</u>	F20	NUCLEAR LAW
C10	ALL EFFECTS AND VARIOUS ASPECTS OF EXTERNAL RADIATION IN BIOLOGY	F21	Radioactive Materials
C11	Effects of External Radiation on Biochemicals and Cell and Tissue Cultures	F22	Nuclear Installations
C12	Effects of External Radiation on Microorganisms	F23	Radiation Health
C13	Effects of External Radiation on Plants	F24	Transport and Storage of Radioactive Materials
C14	Effects of External Radiation on Animals	F25	Liability for Nuclear Damage
C15	Effects of External Radiation on Man	F26	Nuclear Ships and other Nuclear Means of Conveyance
C20	RADIONUCLIDE EFFECTS AND KINETICS	F27	Organization and Administration of Nuclear Activities
C21	Toxicology, Tissue Distribution, Metabolism and Removal of Radionuclides	F28	Nuclear Disarmament and Safeguards
C22	Radionuclide Ecology	F30	NUCLEAR DOCUMENTATION
C30	TRACER STUDIES IN LIFE SCIENCES	F31	Data Handling
C31	Novel Tracer Techniques	F32	Literature Handling
C40	APPLIED LIFE SCIENCES	F40	SAFEGUARDS AND INSPECTION
C41	Plant Cultivation and Breeding	F41	Technical Aspects
C42	Pest and Disease Control	F42	Non-Technical Aspects
C43	Food Protection and Preservation	F50	MATHEMATICAL METHODS AND COMPUTER CODES
C44	Animal Husbandry	F51	Nuclear Computation and Simulation
C45	Other Applications of Radiations and Radioisotopes in the Life Sciences	F60	MISCELLANEOUS
C50	HEALTH, SAFETY AND ENVIRONMENT	F61	General Relevant Documents
C51	Radiation Hazards	F62	Progress Reports
C52	Safety Evaluations and Environmental Aspects of Nuclear Installations		
C53	Radiation Protection Standards		
C54	Radiation Protection Procedures		
D00	<u>ISOTOPES, ISOTOPE AND RADIATION APPLICATIONS</u>		
D10	ISOTOPES AND RADIATION SOURCES		
D11	Production of Enriched Uranium		
D12	Production of Heavy Water		
D13	Other Isotope Production and Enrichment		
D14	Radiation Sources		
D15	Radiation Source Metrology		
D20	ISOTOPE AND RADIATION APPLICATIONS		
D21	Power Production		
D22	Industrial Applications, Radiometric		
D23	Industrial Applications, Radiation Processing		
D24	Tracer Techniques		

GENERAL PHYSICS

- 74001 New morphology of polyethylene prepared by gamma-ray-induced polymerization.
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- 74043 Molecular weight distribution and molecular structure of polyethylene produced by radiation-induced polymerization.
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- J. Polym. Sci., Polym. Phys. Ed. v. 11(8) p. 1573-1584. (1973).
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NEUTRON AND NUCLEAR PHYSICS

- 74046 Effect of hydrostatic pressure on the phase transitions in $\text{KH}_3(\text{SeO}_3)_2$.
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- 74052 Evaluation of fission product nuclear data for fast reactor. Neutron cross sections for 28 nuclides.
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- 74053 Measurement of anisotropic neutron diffusion coefficients in square lattices of aluminum in light water by the pulsed neutron method.

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CHEMISTRY

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Sakurada, Ichiro	74100	Shimizu, Yuichi	74217	Tagawa, Toru*	74079
	74129		74218		74080
	74154	Shimomura, Yasuo	74014		74081
	74170		74018	Taji, Yukichi	74294
	74171		74034	Tajima, Satoshi	74361
Sakurai, Tsutomu	74093	Shimooka, Kenji	74114		74330
	74138		74115	Takagaki, Torao	74331
	74139	Shimooke, Takanori	74300		74020
Sanokawa, Konomo	74194		74320	Takahashi, Akira	74059
Sasaki, Takashi	74142	Shindo, Masami	74213		74093
	74218	Shindo, Ryuiti	74301		74139
Sasaki, Teikichi	74140	Shinohara, Isao*	74079	Takahashi, Ichiro	74177
	74141		74080	Takahashi, Masao	74168
Sasaki, Yasuichi	74202		74081		74188
	74214	Shinohara, Yoshikuni ..	74291	Takahashi, Tadashi	74122
Sasakura, Yutaka	74031		74292		74123
Sasamoto, Nobuo	74061	Shioji, Yuji*	74108	Takahashi, Yoshihisa ..	74152
	74062	Shiraishi, Kensuke	74005		74199
	74367		74201		74319
Sasayama, Tatsuo	74263	Shirakata, Keisho	74279	Takamura, Saburo	74223
Sasuga, Tsuneo	74032		74325	Takano, Hideki	74060
	74142	Shirota, Kohei*	74328		74289
	74217	Shirotoni, Takashi	74230		74302
	74218		74256	Takano, Hiroyuki*	74239
	74219	Shoji, Tokio	74347		74240
Sato, Sadao	74351	Sobajima, Makoto	74299		74241
Sato, Shin*	74143	Suekane, Shota*	74051	Takasaka, Yoshio*	74258
Sato, Shinji	74204	Sugawara, Tohru*	74035	Takeda, Katsuhiko	74335
Sato, Shoichi	74091		74309	Takeda, Tatsuoki	74038
	74092	Sugawara, Toru*	74313		74039
	74155		74321		74313
	74296	Sugimoto, Shun-ichi ...	74156		74321
	74339		74157		74370
Sato, Tomotaro	74229	Sugiura, Toshio	74107	Takehisa, Masaaki	74043
	74232		74265		74144
	74234	Sugiyama, Yasuharu	74056		74146
	74235	Sugo, Takanobu	74108		74148
	74236		74158		74149
	74237		74159		74150
	74238		74258		74158
	74239		74259		74159
	74240	Suita, Tokuo*	74120		74160
	74241	Sumiya, Isao	74124		74161
	74242	Sunaga, Hiromi	74244		74162
	74243		74265		74179
	74244	Suwa, Takeshi	74144		74180
Seguchi, Tadao	74144		74147		74181
	74220		74148		74182
	74221		74149		74183
Seki, Masahiro	74264		74160		74185
Seki, Susumu	74269		74161		74186
	74336		74162		74219
Seki, Yasushi	74010		74220		74220
	74030		74221		74221
	74033		74258		74252
	74294		74259		74260
Sekine, Keiichi	74145	Suzaki, Takenori	74303	Takekoshi, Eiko	74169
Senoo, Muneaki	74114	Suzuki, Katsuo	74369		74271
	74115	Suzuki, Kazuya	74222	Takemasa, Tadashi*	74169
Senrui, Shiro*	74064	Suzuki, Nobutake	74110	Takeshita, Isao	74269
	74146		74111	Takeuchi, Eiji*	74285
	74147		74130	Takeyama, Tomonori	74270
	74148		74163	Takezaki, Jun-ichi	74170
	74149		74164		74171
	74150		74165	Takiue, Makoto*	74009
Senzaki, Yoshimichi* ..	74075		74265		74323
Shaede, E.A.*	74151	Suzuki, Norio	74313		74329
Shiba, Koreyuki	74070		74321	Tamaki, Hiroshi	74142
	74071	Suzuki, Tadakazu	74348	Tamaki, Hiroshi*	74218
	74152		74352	Tamura, Naoyuki	74029
	74199		74363		74044
	74319		74364		74144
Shibata, Katsuyuki	74308	Suzuki, Yasubumi	74263		74153
Shina, Tomio	74026	Suzuki, Yasufumi	74177		74220
Shikata, Eiji	74304	Suzuoki, Yoshiro*	74053		74221
Shimada, Machiko*	74153			Tamura, Nori	74172
Shimada, Takeo*	74260				74173
Shimano, Yasunao*	74129				74187
	74154			Tamura, Sanae	74015
Shimazaki, Junya	74255	Tachibana, Hiroyuki ...	74238		74026
	74368	Tachikawa, Enzo	74127	Tamura, Shuzo	74174
Shimizu, Masatsugu	74268		74137	Tamura, Takaaki*	74112
Shimizu, Saburo	74092	Tachikawa, Katsuhiro ..	74257	Tanaka, Isao	74224
	74155	Tagawa, Hiroaki	74166		74270
Shimizu, Sadaaki*	74299		74167	Tanaka, Kichizo	74030
Shimizu, Yuichi	74142		74339	Tanaka, Ryuichi	74252

CORPORATE AUTHOR INDEX

Div. of Health Physics and Safety
74373

Div. of JMTR Project
74191
74192
74193
74277
74307

Div. of Physics
74004

Div. of Reactor Engineering
74277

Div. of Research Reactor Operation
74371

Div. of Technical Information
74372

Food Irradiation Develop. Lab.
74233

Health Physics and Safety Sect., Oarai
74246
74373

Japanese Nuclear Data Comm.
74052

Office of Safety and Control, Tokyo
74373

Osaka Lab. for Radiation Chemistry
74136

Safety Sect., Takasaki
74373

Thermonuclear Fusion Lab.
74036
74037

Waste Management and Decontamination Sect.,
Oarai
74373

REPORT NUMBER INDEX

JAERI

JAERI--1233 74180
 JAERI--1234 74303
 JAERI--1235 74285
 JAERI--1236 74398
 JAERI--5011(Vol.7) 74372
 JAERI--5029 74020
 74059
 74072
 74073
 74074
 74075
 74076
 74077
 74084
 74100
 74101
 74125
 74129
 74136
 74154
 74156
 74157
 74170
 74171

JAERI-M

JAERI-M--5458 74233
 JAERI-M--5462 74018
 JAERI-M--5466 74325
 JAERI-M--5469 74276
 JAERI-M--5476 74130
 JAERI-M--5477 74162
 JAERI-M--5478 74317
 JAERI-M--5485 74252
 JAERI-M--5486 74273
 JAERI-M--5492 74290
 JAERI-M--5495 74161
 JAERI-M--5498 74092
 JAERI-M--5500 74181
 JAERI-M--5501 74111
 JAERI-M--5502 74030
 JAERI-M--5511 74319
 JAERI-M--5513 74351
 JAERI-M--5515 74019
 JAERI-M--5518 74307
 JAERI-M--5523 74271
 JAERI-M--5524 74186
 JAERI-M--5525 74103
 JAERI-M--5526 74340
 JAERI-M--5527 74284
 JAERI-M--5531 74360
 JAERI-M--5532 74159
 JAERI-M--5536 74049
 JAERI-M--5537 74191
 JAERI-M--5538 74182
 JAERI-M--5542 74259
 JAERI-M--5550 74355
 JAERI-M--5552 74062
 JAERI-M--5556 74367
 JAERI-M--5557 74352
 JAERI-M--5558 74356
 JAERI-M--5559 74357
 JAERI-M--5560 74359
 JAERI-M--5562 74155
 JAERI-M--5564 74036
 JAERI-M--5567 74048
 JAERI-M--5568 74257
 JAERI-M--5569 74025
 JAERI-M--5570 74185
 JAERI-M--5572 74347
 JAERI-M--5577 74158
 JAERI-M--5578 74250
 JAERI-M--5583 74040
 JAERI-M--5590 74298

JAERI-M--5591 74258
 JAERI-M--5592 74108
 JAERI-M--5593 74110
 JAERI-M--5595 74192
 JAERI-M--5596 74363
 JAERI-M--5597 74364
 JAERI-M--5599 74263
 JAERI-M--5600 74260
 JAERI-M--5601 74118
 JAERI-M--5602 74346
 JAERI-M--5608 74331
 JAERI-M--5609 74242
 JAERI-M--5610 74244
 JAERI-M--5612 74014
 JAERI-M--5613 74282
 JAERI-M--5615 74338
 JAERI-M--5616 74362
 JAERI-M--5621 74034
 JAERI-M--5623 74365
 JAERI-M--5624 74057
 JAERI-M--5628 74354
 JAERI-M--5633 74312
 JAERI-M--5642 74339
 JAERI-M--5643 74333
 JAERI-M--5648 74193
 JAERI-M--5649 74026
 JAERI-M--5651 74272
 JAERI-M--5657 74345
 JAERI-M--5658 74349
 JAERI-M--5659 74348
 JAERI-M--5661 74301
 JAERI-M--5664 74291
 JAERI-M--5674 74280
 JAERI-M--5675 74210
 JAERI-M--5681 74211
 JAERI-M--5683 74124
 JAERI-M--5690 74369
 JAERI-M--5691 74209
 JAERI-M--5697 74370
 JAERI-M--5703 74042
 JAERI-M--5712 74292
 JAERI-M--5713 74306
 JAERI-M--5714 74060
 JAERI-M--5719 74286
 JAERI-M--5722 74212
 JAERI-M--5728 74353
 JAERI-M--5730 74283
 JAERI-M--5732 74255
 JAERI-M--5733 74368
 JAERI-M--5734 74322
 JAERI-M--5739 74344
 JAERI-M--5749 74195
 JAERI-M--5752 74052
 JAERI-M--5759 74297
 JAERI-M--5767 74293
 JAERI-M--5768 74350
 JAERI-M--5769 74366
 JAERI-M--5772 74243
 JAERI-M--5773 74270
 JAERI-M--5775 74265
 JAERI-M--5779 74336
 JAERI-M--5785 74178
 JAERI-M--5787 74236
 JAERI-M--5793 74050
 JAERI-M--5794 74294
 JAERI-M--5798 74256
 JAERI-M--5800 74017
 JAERI-M--5802 74334
 JAERI-M--5805 74300
 JAERI-M--5808 74299
 JAERI-M--5809 74200
 JAERI-M--5825 74083
 JAERI-M--5827 74246
 JAERI-M--5829 74004
 JAERI-M--5832 74335
 JAERI-M--5834 74268
 JAERI-M--5835 74324
 JAERI-M--5838 74203
 JAERI-M--5840 74184
 JAERI-M--5844 74277
 JAERI-M--5845 74371
 JAERI-M--5846 74070
 JAERI-M--5847 74071
 JAERI-M--5848 74190
 JAERI-M--5849 74045
 JAERI-M--5855 74010
 JAERI-M--5861 74310
 JAERI-M--5862 74033
 JAERI-M--5863 74326
 JAERI-M--5866 74373
 JAERI-M--5867 74295
 JAERI-M--5868 74266
 JAERI-M--5871 74041
 JAERI-M--5875 74327
 JAERI-M--5876 74207
 JAERI-M--5877 74314
 JAERI-M--5878 74087
 JAERI-M--5879 74262
 JAERI-M--5880 74358
 JAERI-M--5885 74318
 JAERI-M--5886 74281
 JAERI-M--5888 74037
 JAERI-M--5890 74279
 JAERI-M--5895 74119
 JAERI-M--5898 74015
 JAERI-M--5899 74269
 JAERI-M--5903 74248

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Furukawa Y., et al., No.709475

Pat-J-470 Release method of reactor scram period.
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Pat-J-471	Solid state radiation detector for γ -ray spectrometer. Yoshida H.,	No.710129
Pat-J-472	Spacer for nuclear fuel assembly. Morishima A., et al.,	No.1025256
Pat-J-473	Imitation heater of nuclear fuel rod. Sako K., et al.,	No.1027449
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Pat-J-475	Measurement apparatus of gas volume ratio. Yamazaki Y., et al.,	No.717385
Pat-J-476	Extinguishant for metal fire. Furukawa K., et al.,	No.718192
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Pat-J-478	Container for nuclear fuel assembly. Morishima A., et al.	No. 721808
Pat-J-479	Electric voltage-frequency converter. Kinbara S.,	No.722179
Pat-J-480	Aerosol generator. Kitani S.,	No.1034063
Pat-J-481	Method for polymerizing trioxane. Yamasawa Y., et al.,	No.681680
Pat-J-482	The method for improvement of polyepichlorohydrin by ionizing radiation. Kagiya S., et al.,	No.679168
Pat-J-483	Improvement in irradiation method by radioisotope. Takehisa M., et al.,	No.692566
Pat-J-484	A method of radiation-induced reaction in gas phase. Kasamatu T., et al.,	No. 679170

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Pat-J-487	Novel process for treating polyoxymethylene. Nakase Y., et al.,	No.685672
Pat-J-488	The method of radiation-induced crosslinking of polyolefins. Kagiya S., et al.,	No.704145
Pat-J-489	Method for solid state polymerization. Ito A., et al.,	No.692567
Pat-J-490	Novel process for preparing oxymethylene polymer. Nakase Y., et al.,	No.697226
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Pat-J-492	Polymerization method of vinyl monomers induced by ionizing radiation. Kagiya S., et al.,	No.689385
Pat-J-493	Crosslinking method of polyolefins. Kagiya S., et al.,	No.712814
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Pat-J-495	Novel process for preparing oxymethylene polymer. Ito A., et al.,	No.690769
Pat-J-496	Novel process for polymerizing trioxane. Yoshida M., et al.,	No.695339
Pat-J-497	Novel process for polymerizing tetraoxane. Yoshida M., et al.,	No.708824
Pat-J-498	Novel process for polymerizing tetraoxane. Nakase Y., et al.,	No.697227

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Pat-J-500	Novel process for preparing oxymethylene polymer. Nakase Y., et al.,	No.697229
Pat-J-501	Process for the radiation curing of unsaturated polyester resins in the presence of sulfur-vulcanized elastomer. Araki K., et al.,	No.698555
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