

Isao Murata

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

118 papers	504 citations	11 h-index	17 g-index
122 ext. papers	584 ext. citations	1.3 avg, IF	3.3 L-index

#	Paper	IF	Citations
118	Effectiveness of boron neutron capture therapy for recurrent head and neck malignancies. <i>Applied Radiation and Isotopes</i> , 2009 , 67, S37-42	1.7	64
117	New Sampling Method in Continuous Energy Monte Carlo Calculation for Pebble Bed Reactors. <i>Journal of Nuclear Science and Technology</i> , 1997 , 34, 734-744	1	26
116	Light output response of KamLAND liquid scintillator for protons and ^{12}C nuclei. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2010 , 622, 574-582	1.2	22
115	Measurements of Double-Differential Cross Sections of Charged-Particle Emission Reactions for Several Structural Elements of Fusion Power Reactors by 14.1-MeV Incident Neutrons. <i>Nuclear Science and Engineering</i> , 1999 , 132, 16-29	1.2	22
114	Neutron and gamma-ray source-term characterization of AmBe sources in Osaka University. <i>Progress in Nuclear Science and Technology</i> , 2014 , 4, 345-348	0.3	17
113	Characterization measurement of a thick CdTe detector for BNCT-SPECT - detection efficiency and energy resolution. <i>Applied Radiation and Isotopes</i> , 2014 , 88, 129-33	1.7	16
112	Development of a thick CdTe detector for BNCT-SPECT. <i>Applied Radiation and Isotopes</i> , 2011 , 69, 1706-9	1.7	16
111	Visualization of high radiation field by radiophotoluminescence photography. <i>Radiation Measurements</i> , 2014 , 68, 23-30	1.5	14
110	Burnup calculation of fusion-fission hybrid energy system with thorium cycle. <i>Fusion Engineering and Design</i> , 2007 , 82, 2779-2785	1.7	13
109	Liquid Li based neutron source for BNCT and science application. <i>Applied Radiation and Isotopes</i> , 2015 , 106, 92-4	1.7	12
108	Measurement and Analysis of Neutron-Induced Alpha Particle Emission Double-Differential Cross Section of Carbon at 14.2 MeV. <i>Journal of Nuclear Science and Technology</i> , 2008 , 45, 103-115	1	11
107	Fusion Neutronics Benchmark Experiment on Structural and Advanced Blanket Materials - Leakage Gamma-ray Spectrum Measurement -. <i>Journal of Nuclear Science and Technology</i> , 2002 , 39, 955-958	1	10
106	Experimental study on the performance of an epithermal neutron flux monitor for BNCT. <i>Applied Radiation and Isotopes</i> , 2016 , 113, 28-32	1.7	10
105	Design study of neutron flux intensity monitor between ten and several hundred keV for BNCT. <i>Journal of Nuclear Science and Technology</i> , 2016 , 53, 1112-1119	1	9
104	New integral experiments for large angle scattering cross section data benchmarking with DT neutron beam at JAEA/FNS. <i>Fusion Engineering and Design</i> , 2012 , 87, 695-699	1.7	9
103	Investigation of irradiation effects on highly integrated leading-edge electronic components of diagnostics and control systems for LHD deuterium operation. <i>Nuclear Fusion</i> , 2017 , 57, 086012	3.3	8
102	High detection efficiency scintillating fiber detector for time-resolved measurement of triton burnup 14 MeV neutron in deuterium plasma experiment. <i>Review of Scientific Instruments</i> , 2018 , 89, 101101	1.7	7

101	New burnup calculation system for fusion-fission hybrid reactor. <i>Fusion Engineering and Design</i> , 2007 , 82, 2772-2778	1.7	7
100	Low-energy neutron spectrometer using position sensitive proportional counterFeasibility study based on numerical analysis. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2008 , 589, 445-454	1.2	7
99	Benchmark Experiment on Vanadium with D-T Neutrons and Validation of Evaluated Nuclear Data Libraries by Analysis of the Experiment. <i>Journal of Nuclear Science and Technology</i> , 1999 , 36, 242-249	1	7
98	Feasibility study on BNCT-SPECT using a CdTe detector. <i>Progress in Nuclear Science and Technology</i> , 2011 , 1, 267-270	0.3	7
97	Study on measuring device arrangement of array-type CdTe detector for BNCT-SPECT. <i>Reports of Practical Oncology and Radiotherapy</i> , 2016 , 21, 102-7	1.5	6
96	Performance testing of the neutron flux monitors from 10keV to 1MeV developed for BNCT: A preliminary study. <i>Applied Radiation and Isotopes</i> , 2017 , 125, 119-123	1.7	6
95	Fabrication of radiophotoluminescence dosimeter with 3D-printing technology. <i>Radiation Measurements</i> , 2019 , 124, 141-145	1.5	6
94	A feasibility design study on a neutron spectrometer for BNCT with liquid moderator. <i>Applied Radiation and Isotopes</i> , 2015 , 106, 41-4	1.7	6
93	Basic detection property of an array-type CdTe detector for BNCT-SPECT - Measurement and analysis of anti-coincidence events. <i>Applied Radiation and Isotopes</i> , 2016 , 118, 389-394	1.7	6
92	Tritium burning in inertial electrostatic confinement fusion facility. <i>Fusion Engineering and Design</i> , 2016 , 109-111, 1709-1713	1.7	6
91	Monte Carlo optimization of an epithermal neutron flux monitor for BNCT. <i>Journal of Nuclear Science and Technology</i> , 2017 , 54, 1118-1122	1	6
90	Development of neutron-sensitive glass dosimeter containing isotopically enriched boron. <i>Radiation Measurements</i> , 2011 , 46, 1484-1487	1.5	6
89	Measurements of Double Differential Cross Sections for Charged Particle Emission Reactions by 14.1MeV Incident Neutrons. <i>Journal of Nuclear Science and Technology</i> , 2002 , 39, 413-416	1	6
88	Neutron and Gamma-ray Dose Evaluation on Accelerator Neutron Source using p-Li Reaction for BNCT. <i>Progress in Nuclear Science and Technology</i> , 2011 , 1, 533-536	0.3	6
87	Mock-up experiment at Birmingham University for BNCT project of Osaka University--Neutron flux measurement with gold foil. <i>Applied Radiation and Isotopes</i> , 2015 , 106, 72-4	1.7	5
86	Development of human hand phantom containing radiophotoluminescence material. <i>Radiation Measurements</i> , 2016 , 85, 18-25	1.5	5
85	Verification of KERMA factor for beryllium at neutron energy of 14.2MeV based on charged-particle measurement. <i>Fusion Engineering and Design</i> , 2008 , 83, 1674-1677	1.7	5
84	New Sampling Method in Continuous Energy Monte Carlo Calculation for Pebble Bed Reactors		5

83	Design optimization of a fast-neutron detector with scintillating fibers for triton burnup experiments at fusion experimental devices. <i>Review of Scientific Instruments</i> , 2019 , 90, 043503	1.7	4
82	Development of string-shaped radiophotoluminescence dosimeter for high-radiation field. <i>Radiation Measurements</i> , 2018 , 111, 1-5	1.5	4
81	Techniques to Measure Absolute Neutron Spectrum and Intensity for Accelerator Based Neutron Source for BNCT. <i>Plasma and Fusion Research</i> , 2018 , 13, 2501007-2501007	0.5	4
80	Study on a liquid-moderator-based neutron spectrometer for BNCT development and experimental test of the prototype spectrometer. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2017 , 870, 90-96	1.2	4
79	A New Approach to Estimate Importance for Weight Window in Forward Monte Carlo Calculations. <i>Nuclear Science and Engineering</i> , 2008 , 159, 273-283	1.2	4
78	Blanket mock-up experiment with a LiAlPb assembly irradiated with 14MeV neutrons in preparation of the HCLL-TBM neutronics experiment. <i>Fusion Engineering and Design</i> , 2008 , 83, 1813-1817	1.7	4
77	Initial operation results of NE213 scintillation detector for time-resolved measurements on triton burnup in KSTAR. <i>Review of Scientific Instruments</i> , 2018 , 89, 101118	1.7	4
76	Development of An Epi-thermal Neutron Field for Fundamental Researches for BNCT with A DT Neutron Source. <i>EPJ Web of Conferences</i> , 2017 , 153, 04008	0.3	3
75	Synthesis and characterization of spherical radiophotoluminescence glass detectors by melting method. <i>Radiation Measurements</i> , 2018 , 113, 1-6	1.5	3
74	Development of thermal neutron-sensitive glass dosimeter containing lithium. <i>Radiation Protection Dosimetry</i> , 2011 , 144, 226-30	0.9	3
73	Analysis of the propagation of neutrons and gamma-rays from the fast neutron source reactor YAYOI. <i>Journal of Nuclear Materials</i> , 2011 , 417, 1345-1347	3.3	3
72	New Radiophotoluminescence Glass Dosimeter with Specialized Radiation-Sensitive Surface Layer. <i>Japanese Journal of Applied Physics</i> , 2010 , 49, 116401	1.4	3
71	Preliminary spectrum shifter design for intermediate energy nuclear data benchmark experiments with DT neutrons. <i>Fusion Engineering and Design</i> , 2009 , 84, 1446-1449	1.7	3
70	Problems of lead nuclear data in fusion blanket design. <i>Fusion Engineering and Design</i> , 2009 , 84, 1076-1089	1.7	3
69	Measurement of Charged-Particle Emission Double-Differential Cross Section of Fluorine for 14.2MeV Neutrons. <i>Journal of Nuclear Science and Technology</i> , 2011 , 48, 1146-1157	1	3
68	Verification of nuclear data for DT neutron induced charged-particle emission reaction of light nuclei. <i>Fusion Engineering and Design</i> , 2007 , 82, 2786-2793	1.7	3
67	Measurement of Secondary Gamma-ray Skyshine and Groundshine from Intense 14 MeV Neutron Source Facility. <i>Journal of Nuclear Science and Technology</i> , 2000 , 37, 650-654	1	3
66	Development of epi-thermal neutron beam intensity detector with Ga(n, γ)Ga reaction for boron neutron capture therapy. <i>Applied Radiation and Isotopes</i> , 2019 , 151, 145-149	1.7	2

65	Cross sections of (n,x) reactions on cerium isotopes induced by D-T neutrons. <i>Applied Radiation and Isotopes</i> , 2019 , 147, 144-151	1.7	2
64	Neutron intensity monitor with activation foil for p-Li neutron source for BNCT--Feasibility test of the concept. <i>Applied Radiation and Isotopes</i> , 2015 , 106, 75-7	1.7	2
63	Tritium release from molten salt FLiNaK under low flux neutron irradiation with an AmBe neutron source. <i>Fusion Engineering and Design</i> , 2018 , 136, 1269-1272	1.7	2
62	Design of an epi-thermal neutron flux intensity monitor with GaN wafer for boron neutron capture therapy. <i>Journal of Nuclear Science and Technology</i> , 2014 , 1-6	1	2
61	Performance analysis of fusion nuclear-data benchmark experiments for light to heavy materials in MeV energy region with a neutron spectrum shifter. <i>Journal of Nuclear Materials</i> , 2011 , 417, 1127-1130	3.3	2
60	A twin-type airflow pulse ionization chamber for continuous alpha-radioactivity monitoring in atmosphere. <i>Radiation Measurements</i> , 2010 , 45, 1044-1048	1.5	2
59	Neutron Emission Profile of d-Be Reaction with Low-energy Deuteron Beam for Accelerator Neutron Source. <i>Journal of Nuclear Science and Technology</i> , 2008 , 45, 58-61	1	2
58	Angle-correlated spectrum measurement for two neutrons emitted from (n,2n) reaction with the coincidence detection technique using a pencil-beam DT neutron source. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2008 , 595, 433-446	1.2	2
57	Fusion Neutronics Benchmark Experiment on Structural and Advanced Blanket Materials - Leakage Neutron Spectrum Measurement -. <i>Journal of Nuclear Science and Technology</i> , 2002 , 39, 978-981	1	2
56	Effect of Heterogeneities in Heavy Concrete on Shielding of Fusion Neutrons. <i>Fusion Science and Technology</i> , 1999 , 36, 181-193		2
55	Tritium Release from Molten FLiNaBe under Low Flux Neutron Irradiation. <i>Plasma and Fusion Research</i> , 2019 , 14, 1405044-1405044	0.5	2
54	Precise Numerical Simulation of Gamma-ray Pulse Height Spectrum Measured with a CdTe Detector Designed for BNCT-SPECT. <i>Progress in Nuclear Science and Technology</i> , 2012 , 3, 52-55	0.3	2
53	Development of precise energy spectrum measurement technique for high-power pulsed X-ray sources for industrial use. <i>Journal of Nuclear Science and Technology</i> , 2016 , 53, 766-773	1	2
52	Time-resolved secondary triton burnup 14 MeV neutron measurement by a new scintillating fiber detector in middle total neutron emission ranges in deuterium large helical device plasma experiments. <i>AAPPS Bulletin</i> , 2021 , 31, 1		2
51	Feasibility study on real-time E-ray spectrum / dose measurement system. <i>EPJ Web of Conferences</i> , 2017 , 153, 07014	0.3	1
50	DESIGN IMPROVEMENT OF A LIQUID-MODERATOR-BASED NEUTRON SPECTROMETER FOR BNCT. <i>Radiation Protection Dosimetry</i> , 2018 , 180, 300-303	0.9	1
49	Performance test of liquid-moderator-based neutron spectrometer for BNCT: Mono-energetic and spontaneous fission spectrum neutron measurements. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2019 , 940, 435-440	1.2	1
48	The new design and validation of an epithermal neutron flux detector using $^{71}\text{Ga}(n,\gamma)^{72}\text{Ga}$ reaction for BNCT. <i>Journal of Instrumentation</i> , 2019 , 14, P06016-P06016	1	1

47	DEVELOPMENT OF ISOTOPICALLY ENRICHED BORON-DOPED ALUMINA DOSIMETER FOR THERMAL NEUTRONS. <i>Radiation Protection Dosimetry</i> , 2017 , 177, 475-480	0.9	1
46	Measurement of Spatial Dose Distribution of High Radiation Field by Radiophotoluminescence Photography. <i>Radiation Safety Management</i> , 2017 , 16, 13-19	0.9	1
45	Radiophotoluminescence light scope for high-dose dosimetry. <i>Radiation Measurements</i> , 2015 , 82, 88-92	1.5	1
44	Boron Neutron Capture Therapy (BNCT) - Low-Energy Neutron Spectrometer for Neutron Field Characterization -. <i>Plasma and Fusion Research</i> , 2014 , 9, 4401107-4401107	0.5	1
43	Measurement of Reaction Rates in Li/V-Alloy Assembly with 14 MeV Neutron Irradiation. <i>Fusion Science and Technology</i> , 2011 , 60, 681-686	1.1	1
42	Speed-up of cross-section collapsing with weight-window for subcritical burnup calculation. <i>Fusion Engineering and Design</i> , 2009 , 84, 1281-1284	1.7	1
41	Advanced Burnup Calculation Code System in a Subcritical State with Continuous-Energy Monte Carlo Code for Fusion-Fission Hybrid Reactor. <i>Journal of Nuclear Science and Technology</i> , 2009 , 46, 776-786	1	1
40	A New Approach to Make Collapsed Cross Section for Burnup Calculation of Subcritical System. <i>Journal of Nuclear Science and Technology</i> , 2008 , 45, 86-88	1	1
39	(n, 2n) Reaction Cross Section Measurement with A Beam DT Neutron Source. <i>Journal of Nuclear Science and Technology</i> , 2002 , 39, 433-436	1	1
38	Assessment of Tritium Behavior in Man Using a Modified Three-Compartment Model. <i>Journal of Nuclear Science and Technology</i> , 2002 , 39, 316-322	1	1
37	Measurement of Biological Half-Life of Tritium in Handling Worker at Fusion Research Facility. <i>Fusion Science and Technology</i> , 1998 , 34, 656-660		1
36	Thermal neutron field with D-T neutron source for BNCT. <i>Progress in Nuclear Science and Technology</i> , 2011 , 1, 513-516	0.3	1
35	Gamma-ray transmission evaluation using imaging plate designed for X-ray radiography. <i>Progress in Nuclear Science and Technology</i> , 2014 , 4, 699-703	0.3	1
34	Design of SPECT for BNCT to measure local boron dose with GAGG scintillator.. <i>Applied Radiation and Isotopes</i> , 2021 , 181, 110056	1.7	1
33	Benchmark Experiment on Vanadium with D-T Neutrons and Validation of Evaluated Nuclear Data Libraries by Analysis of the Experiment		1
32	Measurement and Analysis of Neutron-Induced Alpha Particle Emission Double-Differential Cross Section of Carbon at 14.2 MeV		1
31	Control of Chemical Forms of Tritium in FLiNaK under Low Flux Neutron Irradiation. <i>Plasma and Fusion Research</i> , 2018 , 13, 3404071-3404071	0.5	1
30	One-dimensional dose measurement with string-shaped photo-stimulated luminescence detector. <i>Radiation Measurements</i> , 2019 , 124, 137-140	1.5	0

29	Design and performance of an epithermal neutron flux detector using Mn(n, γ)Mn reaction for BNCT. <i>Applied Radiation and Isotopes</i> , 2021 , 176, 109880	1.7	0
28	Cerebrospinal fluid-based boron delivery system may help increase the uptake boron for boron neutron capture therapy in veterinary medicine: A preliminary study with normal rat brain cells.. <i>Research in Veterinary Science</i> , 2022 , 148, 1-6	2.5	0
27	Development of beta ray scanner for imaging foliar uptake of radiocesium. <i>Radiation Detection Technology and Methods</i> , 2017 , 1, 1	0.7	
26	Gamma-Ray Dose Measurement with Radio-Photoluminescence Glass Dosimeter in Mixed Radiation Field for BNCT. <i>EPJ Web of Conferences</i> , 2017 , 153, 04009	0.3	
25	Thought Experiment to Examine Benchmark Performance for Fusion Nuclear Data. <i>EPJ Web of Conferences</i> , 2017 , 153, 07015	0.3	
24	Single floating cell irradiation technique with an X-ray microbeamPeer review under responsibility of The Egyptian Society of Radiation Sciences and Applications.View all notes. <i>Journal of Radiation Research and Applied Sciences</i> , 2018 , 11, 83-88	1.5	
23	Optimization of Experimental System Design for Benchmarking of Large Angle Scattering Reaction Cross Section at 14 MeV Using Two Shadow Bars. <i>Plasma and Fusion Research</i> , 2018 , 13, 2405002-2405002	0.5	
22	Simplified Neutron Detector for Angular Distribution Measurement of p-Li Neutron Source. <i>Plasma and Fusion Research</i> , 2014 , 9, 4405111-4405111	0.5	
21	Performance analysis for neutronics benchmark experiments with partial adjoint contribution estimated by forward Monte Carlo calculation. <i>Fusion Engineering and Design</i> , 2013 , 88, 2302-2305	1.7	
20	Basic investigation of boron neutron capture therapy (BNCT) using novel boron agents and accelerator based neutron source. <i>IFMBE Proceedings</i> , 2009 , 638-641	0.2	
19	Direct neutron spectrum measurement to validate natZr(n,2n) reaction cross-section at 14MeV. <i>Fusion Engineering and Design</i> , 2009 , 84, 1376-1379	1.7	
18	On accelerator-based neutron sources and neutron field characterization with low energy neutron spectrometer based on position sensitive ^3He counter. <i>Applied Radiation and Isotopes</i> , 2009 , 67, S288-91	1.7	
17	Nuclear Data Benchmarking for Lead by LiAl/Pb Fusion Blanket Mock-Up Experiment. <i>Nuclear Technology</i> , 2009 , 168, 591-595	1.4	
16	A New Low-Energy Neutron Spectrometer Based on Position-Sensitive Proportional Counter for Accelerator-Based Neutron Source. <i>Nuclear Technology</i> , 2009 , 168, 373-377	1.4	
15	Development of Cell Chip Based on Track Detector for Examination of Biological Damage by Alpha Particles. <i>Journal of Nuclear Science and Technology</i> , 2010 , 47, 1206-1210	1	
14	Recent Measurements of Nuclear Data and Integral Tests for Fusion Reactor Application. <i>Journal of Nuclear Science and Technology</i> , 2002 , 39, 1112-1117	1	
13	Measurements of Secondary Gamma-Ray Production Cross Sections for natFe, ^{51}V , natMo, natZr, natNi and ^{181}Ta with Hp-Ge Detector Induced by DT Neutrons. <i>Journal of Nuclear Science and Technology</i> , 2002 , 39, 437-440	1	
12	Effect of Aggregate Specification in Heavy Concrete for Fusion Reactor Shield on Neutron Dose Evaluation. <i>Journal of Nuclear Science and Technology</i> , 2000 , 37, 798-802	1	

11	Radioactivation Analysis of Concrete Wall in OKTAVIAN Facility. <i>Plasma and Fusion Research</i> , 2022 , 17, 1405001-1405001	0.5
10	Boron neutron capture therapy in patients with recurrent head and neck cancers who have no other treatment options.. <i>Journal of Clinical Oncology</i> , 2014 , 32, 6046-6046	2.2
9	Boron neutron capture therapy in non-SCC patients with intractable head and neck malignancies who have no other treatment options.. <i>Journal of Clinical Oncology</i> , 2016 , 34, e17507-e17507	2.2
8	Cross Talk Experiment with Two-element CdTe Detector and Collimator for BNCT-SPECT. <i>Journal of Radiation Protection and Research</i> , 2016 , 41, 328-332	0.7
7	Performance of Convenient Film Scanner System for Automatic Counting of Track Etched Pits on PADC Detectors. <i>Radiation Safety Management</i> , 2010 , 9, 1-6	0.9
6	Development of a Grab-sampling Type Multitubular Proportional Counter for Measurement of Radon Concentration in Atmosphere. <i>Progress in Nuclear Science and Technology</i> , 2011 , 1, 396-399	0.3
5	Validation of large-angle scattering data via shadow-bar experiment. <i>Fusion Engineering and Design</i> , 2016 , 112, 360-366	1.7
4	Development of capillary plate neutron detector filed with liquid scintillator by using recoiled-particle trajectory analyses. <i>Journal of Instrumentation</i> , 2019 , 14, C10026-C10026	1
3	Feasibility study on image reconstruction for single-photon emission computed tomography with limited projections by neural networks. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2021 , 986, 164700	1.2
2	Benchmark experiment of large-angle scattering reaction cross section of iron at 14 MeV using two shadow bars [Comparison of experimental results with ENDF/B-VIII] <i>Journal of Nuclear Science and Technology</i> , 2021 , 58, 80-86	1
1	Experimental verification of real-time gamma-ray energy spectrum and dose monitor.. <i>Applied Radiation and Isotopes</i> , 2022 , 185, 110226	1.7