Yoshie Otake

List of Publications by Year
in descending order

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53	494	687363 13	752698 20
papers	citations	h-index	g-index

54	54	54	262
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Development of a neutron generating target for compact neutron sources using low energy proton beams. Journal of Radioanalytical and Nuclear Chemistry, 2015, 305, 787-794.	1.5	58
2	Prospect for application of compact accelerator-based neutron source to neutron engineering diffraction. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2016, 833, 61-67.	1.6	51
3	Interferometer for cold neutrons using multilayer mirrors. Physical Review A, 1996, 54, 649-651.	2.5	33
4	Quantum precession of cold neutron spin using multilayer spin splitters and a phase-spin-echo interferometer. Physical Review A, 1998, 57, 4720-4729.	2.5	33
5	Realization of a delayed choice experiment using a multilayer cold neutron pulser. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1998, 410, 259-263.	1.6	21
6	Visualization of Water in Corroded Region of Painted Steels at a Compact Neutron Source. ISIJ International, 2017, 57, 155-161.	1.4	20
7	Completion of a new accelerator-driven compact neutron source prototype RANS-II for on-site use. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2021, 994, 165091.	1.6	18
8	Fast neutron transmission imaging of the interior of large-scale concrete structures using a newly developed pixel-type detector. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2017, 870, 148-155.	1.6	17
9	RIKEN Compact Neutron Systems with Fast and Slow Neutrons. Plasma and Fusion Research, 2018, 13, 2401017-2401017.	0.7	15
10	A function to provide neutron spectrum produced from the ⁹Be Â+ p reaction with protons of energy below 12 MeV. Journal of Nuclear Science and Technology, 2018, 55, 859-867.	1.3	15
11	Microstructured boron foil scintillating G-GEM detector for neutron imaging. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2016, 838, 124-128.	1.6	13
12	Development of Multi-colored Neutron Talbotâ€“Lau Interferometer with Absorption Grating Fabricated by Imprinting Method of Metallic Glass. Journal of the Physical Society of Japan, 2017, 86, 044001.	1.6	13
13	Nondestructive Measurement Method to Detect Water/Void inside Slabs using Compact Neutron Source by Backscattered Neutrons. Journal of Advanced Concrete Technology, 2017, 15, 603-609.	1.8	13
14	Development of modulating permanent magnet sextupole lens for focusing of pulsed cold neutrons. Physica B: Condensed Matter, 2009, 404, 2646-2651.	2.7	12
15	Neutron Interference Experiments and Quantum Measurement Theory. Progress of Theoretical Physics, 1987, 77, 508-513.	2.0	11
16	In-house texture measurement using a compact neutron source. Journal of Applied Crystallography, 2020, 53, 444-454.	4.5	11
17	Quantum Beat Experiments Using a Cold Neutron Spin Interferometer. Journal of the Physical Society of Japan, 1998, 67, 1569-1573.	1.6	9
18	Multilayer Neutron Interferometer with Complete Path Separation. Journal of the Physical Society of Japan, 2010, 79, 124201.	1.6	9

#	Article	IF	Citations
19	A Compact Proton Linac Neutron Source at RIKEN. , 2018, , 291-314.		9
20	Pulsed neutron-beam focusing by modulating a permanent-magnet sextupole lens. Progress of Theoretical and Experimental Physics, 2015, 2015, .	6.6	8
21	Multiobjective Optimization Shielding Design for Compact Accelerator-Driven Neutron Sources by Application of NSGA-II and MCNP. IEEE Transactions on Nuclear Science, 2021, 68, 110-117.	2.0	8
22	Development of On-site Measurement Technique of Retained Austenite Volume Fraction by Compact Neutron Source RANS. Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan, 2018, 104, 138-144.	0.4	8
23	Determination Approach of Dislocation Density and Crystallite Size Using a Convolutional Multiple Whole Profile Software. Materials Transactions, 2018, 59, 1135-1141.	1.2	7
24	Feasibility Study of Nondestructive Diagnostic Method for Chlorine in Concrete by Compact Neutron Source and PGA. Journal of Advanced Concrete Technology, 2019, 17, 571-578.	1.8	7
25	RIKEN Accelerator-driven compact neutron systems. EPJ Web of Conferences, 2020, 231, 01009.	0.3	7
26	Non-Dispersive Measurement of the Transverse Coherence Length of a Cold Neutron Beam. Journal of the Physical Society of Japan, 2003, 72, 3079-3081.	1.6	7
27	Proposed Photon Interference Experiment for Test of Quantum Measurement Theories. Progress of Theoretical Physics, 1987, 78, 951-956.	2.0	6
28	The Influence of Strain Rate and Strain on the Behavior of Stress Relaxation in 980 MPa-Grade Dual Phase Steel Sheets. Key Engineering Materials, 2016, 716, 948-953.	0.4	6
29	Shielding design of a target station and radiation dose level investigation of proton linac for a compact accelerator-driven neutron source applied at industrial sites. Applied Radiation and Isotopes, 2018, 137, 129-138.	1.5	6
30	A Study on the Non-Destructive Detection of Salt in Concrete Using Neutron-Captured Prompt-Gamma Rays at RANS. Plasma and Fusion Research, 2018, 13, 2404052-2404052.	0.7	5
31	Quantification of Localized Water Image in Under-Film Corroded Steel with High Spatial Resolution, High Time Resolution, and Wide View by Neutron Radiography. Materials Transactions, 2018, 59, 976-983.	1.2	5
32	Neutron EDM search using crystal techniques. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2000, 440, 489-490.	1.6	4
33	Highly polarized very cold neutrons through a permanent magnet quadrupole. Physica B: Condensed Matter, 2009, 404, 2643-2645.	2.7	3
34	RIKEN accelerator-driven compact neutron systems, RANS project and their capabilities. Neutron News, 2020, 31, 32-36.	0.2	3
35	MoirÃ© Fringes in a Neutron Spin Interferometer. Journal of the Physical Society of Japan, 2007, 76, 064008.	1.6	3
36	Neutron flat-panel detector using Inâ€“Gaâ€“Znâ€“O thin-film transistor. Review of Scientific Instruments, 2022, 93, 013304.	1.3	3

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37	Improvement of Neutron Diffraction at Compact Accelerator-driven Neutron Source RANS Using Peak Profile Deconvolution and Delayed Neutron Reduction for Stress Measurements. ISIJ International, 2022, 62, 1013-1022.	1.4	3
38	Development of cold neutron pulser for delayed choice experiment. Physica B: Condensed Matter, 1997, 241-243, 133-135.	2.7	2
39	Research toward the development of compact neutron interference imaging instrument with gratings. Journal of Physics: Conference Series, 2012, 340, 012035.	0.4	2
40	Polarized proton spin filter for epithermal neutrons based on dynamic nuclear polarization using photo-excited triplet electron spins. Progress of Theoretical and Experimental Physics, 2020, 2020, .	6.6	2
41	Optimization of a slab geometry type cold neutron moderator for RIKEN accelerator-driven compact neutron source. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2021, 995, 165079.	1.6	2
42	Dual polarised beam polarimeter: A highly sensitive tool for the detection of very small neutron spin rotation. Journal of Neutron Research, 1996, 4, 215-219.	1.1	1
43	Development of a high-frequency cold neutron pulser for producing a time-dependent optical potential. Physica B: Condensed Matter, 2000, 276-278, 977-978.	2.7	1
44	MoirÃ© fringes of cold neutron with large divergence angle. Physica B: Condensed Matter, 2006, 385-386, 1222-1224.	2.7	1
45	Investigation of Dose Rate Distribution in an Experimental Hall of a RIKEN Accelerator-Driven Compact Neutron Source Based on the â¹Be(p, n) Reaction With 7 MeV Proton Injection. IEEE Transactions on Nuclear Science, 2022, 69, 118-125.	2.0	1
46	Radiation field characterization with emphasis on the collimator configuration at the compact neutron source RANS-II facility. Journal of Nuclear Science and Technology, 2023, 60, 110-123.	1.3	1
47	Polarization of very cold neutron using a permanent magnet quadrupole. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 634, S17-S20.	1.6	0
48	Time and flow stress dependences of internal stress during stress relaxation. Procedia Manufacturing, 2018, 15, 1746-1753.	1.9	0
49	Towards Preventive Maintenance with Non-Destructive Test Using Compact Neutron Systems. Journal of the Japan Society of Colour Material, 2021, 94, 80-84.	0.1	0
50	RIKEN Accelerator-driven compact Neutron systems, RANS project -RANS, RANS-II, III, RANS-Î¼-. Journal of Neutron Research, 2021, 23, 119-125.	1.1	0
51	ULS (ULtra-small angle Scattering instrument) and Interference Imaging. Hamon, 2014, 24, 151-155.	0.0	0
52	High-Definition Pulsed Neutron Imaging with High-Frame-Rate Camera Using Center-of-Gravity and Super-Resolution Processing for Bright Spots from Image Intensifier. , 2019, , .		0
53	Demonstration of Neutron Phase Imaging Based on Talbotâ€“Lau Interferometer at Compact Neutron Source RANS. Quantum Beam Science, 2022, 6, 22.	1.2	0