

# Yoshie Otake

## List of Publications by Year in descending order

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53  
papers

494  
citations

686830

13  
h-index

752256

20  
g-index

54  
all docs

54  
docs citations

54  
times ranked

262  
citing authors

#	ARTICLE	IF	CITATIONS
1	Development of a neutron generating target for compact neutron sources using low energy proton beams. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2015, 305, 787-794.	0.7	58
2	Prospect for application of compact accelerator-based neutron source to neutron engineering diffraction. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2016, 833, 61-67.	0.7	51
3	Interferometer for cold neutrons using multilayer mirrors. <i>Physical Review A</i> , 1996, 54, 649-651.	1.0	33
4	Quantum precession of cold neutron spin using multilayer spin splitters and a phase-spin-echo interferometer. <i>Physical Review A</i> , 1998, 57, 4720-4729.	1.0	33
5	Realization of a delayed choice experiment using a multilayer cold neutron pulser. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1998, 410, 259-263.	0.7	21
6	Visualization of Water in Corroded Region of Painted Steels at a Compact Neutron Source. <i>ISIJ International</i> , 2017, 57, 155-161.	0.6	20
7	Completion of a new accelerator-driven compact neutron source prototype RANS-II for on-site use. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2021, 994, 165091.	0.7	18
8	Fast neutron transmission imaging of the interior of large-scale concrete structures using a newly developed pixel-type detector. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2017, 870, 148-155.	0.7	17
9	RIKEN Compact Neutron Systems with Fast and Slow Neutrons. <i>Plasma and Fusion Research</i> , 2018, 13, 2401017-2401017.	0.3	15
10	A function to provide neutron spectrum produced from the ${}^9\text{Be} + p$ reaction with protons of energy below 12 MeV. <i>Journal of Nuclear Science and Technology</i> , 2018, 55, 859-867.	0.7	15
11	Microstructured boron foil scintillating G-GEM detector for neutron imaging. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2016, 838, 124-128.	0.7	13
12	Development of Multi-colored Neutron Talbot-Lau Interferometer with Absorption Grating Fabricated by Imprinting Method of Metallic Glass. <i>Journal of the Physical Society of Japan</i> , 2017, 86, 044001.	0.7	13
13	Nondestructive Measurement Method to Detect Water/Void inside Slabs using Compact Neutron Source by Backscattered Neutrons. <i>Journal of Advanced Concrete Technology</i> , 2017, 15, 603-609.	0.8	13
14	Development of modulating permanent magnet sextupole lens for focusing of pulsed cold neutrons. <i>Physica B: Condensed Matter</i> , 2009, 404, 2646-2651.	1.3	12
15	Neutron Interference Experiments and Quantum Measurement Theory. <i>Progress of Theoretical Physics</i> , 1987, 77, 508-513.	2.0	11
16	In-house texture measurement using a compact neutron source. <i>Journal of Applied Crystallography</i> , 2020, 53, 444-454.	1.9	11
17	Quantum Beat Experiments Using a Cold Neutron Spin Interferometer. <i>Journal of the Physical Society of Japan</i> , 1998, 67, 1569-1573.	0.7	9
18	Multilayer Neutron Interferometer with Complete Path Separation. <i>Journal of the Physical Society of Japan</i> , 2010, 79, 124201.	0.7	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, .	1.8	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.	1.2	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.	0.1	8
23	Determination Approach of Dislocation Density and Crystallite Size Using a Convolutional Multiple Whole Profile Software. Materials Transactions, 2018, 59, 1135-1141.	0.4	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.	0.8	7
25	RIKEN Accelerator-driven compact neutron systems. EPJ Web of Conferences, 2020, 231, 01009.	0.1	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.	0.7	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.	0.7	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.	0.3	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.	0.4	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.	0.7	4
33	Highly polarized very cold neutrons through a permanent magnet quadrupole. Physica B: Condensed Matter, 2009, 404, 2643-2645.	1.3	3
34	RIKEN accelerator-driven compact neutron systems, RANS project and their capabilities. Neutron News, 2020, 31, 32-36.	0.1	3
35	Moiré Fringes in a Neutron Spin Interferometer. Journal of the Physical Society of Japan, 2007, 76, 064008.	0.7	3
36	Neutron flat-panel detector using InGaZnO thin-film transistor. Review of Scientific Instruments, 2022, 93, 013304.	0.6	3

#	ARTICLE	IF	CITATIONS
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.	0.6	3
38	Development of cold neutron pulser for delayed choice experiment. Physica B: Condensed Matter, 1997, 241-243, 133-135.	1.3	2
39	Research toward the development of compact neutron interference imaging instrument with gratings. Journal of Physics: Conference Series, 2012, 340, 012035.	0.3	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, .	1.8	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.	0.7	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.	0.4	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.	1.3	1
44	Moiré fringes of cold neutron with large divergence angle. Physica B: Condensed Matter, 2006, 385-386, 1222-1224.	1.3	1
45	Investigation of Dose Rate Distribution in an Experimental Hall of a RIKEN Accelerator-Driven Compact Neutron Source Based on the $^4\text{Be}(p, n)$ Reaction With 7 MeV Proton Injection. IEEE Transactions on Nuclear Science, 2022, 69, 118-125.	1.2	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.	0.7	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.	0.7	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.	0.0	0
50	RIKEN Accelerator-driven compact Neutron systems, RANS project -RANS, RANS-II, III, RANS-1/4-. Journal of Neutron Research, 2021, 23, 119-125.	0.4	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 Talbot-Lau Interferometer at Compact Neutron Source RANS. Quantum Beam Science, 2022, 6, 22.	0.6	0