

# Erik B Iverson

## List of Publications by Year in descending order

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30  
papers

568  
citations

1040056

9  
h-index

752698

20  
g-index

35  
all docs

35  
docs citations

35  
times ranked

1059  
citing authors

#	ARTICLE	IF	CITATIONS
1	The new cold neutron chopper spectrometer at the Spallation Neutron Source: Design and performance. <i>Review of Scientific Instruments</i> , 2011, 82, 085108.	1.3	220
2	The Macromolecular Neutron Diffractometer MaNDi at the Spallation Neutron Source. <i>Journal of Applied Crystallography</i> , 2015, 48, 1302-1306.	4.5	64
3	POWGEN: rebuild of a third-generation powder diffractometer at the Spallation Neutron Source. <i>Journal of Applied Crystallography</i> , 2019, 52, 1189-1201.	4.5	57
4	First Results from the VULCAN Diffractometer at the SNS. <i>Materials Science Forum</i> , 0, 652, 105-110.	0.3	36
5	Hydrogen adsorption on two catalysts for the ortho- to parahydrogen conversion: Cr-doped silica and ferric oxide gel. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 17281-17293.	2.8	34
6	First Observation of $P$ -odd Asymmetry in Polarized Neutron Capture on Hydrogen. <i>Physical Review Letters</i> , 2018, 121, 242002.	7.8	33
7	The 10,000,000,000-Volt question: What is the best choice of proton energy to drive a pulsed spallation neutron source?. <i>Physica B: Condensed Matter</i> , 1999, 270, 272-279.	2.7	25
8	Enhancing neutron beam production with a convoluted moderator. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2014, 762, 31-41.	1.6	13
9	Time focusing of pulsed-source crystal analyzer spectrometers. Part II: practical expressions. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2002, 483, 784-806.	1.6	12
10	Experimental Search for Neutron to Mirror Neutron Oscillations as an Explanation of the Neutron Lifetime Anomaly. <i>Physical Review Letters</i> , 2022, 128, .	7.8	11
11	The Spallation Neutron Source High Power Target Station Moderator Performance: Calculations and Studies. <i>Journal of Neutron Research</i> , 2003, 11, 83-91.	1.1	10
12	Moderator poison design and burn-up calculations at the SNS. <i>Journal of Nuclear Materials</i> , 2008, 377, 268-274.	2.7	8
13	Neutron beamline shielding calculations at the SNS. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2006, 562, 946-949.	1.6	7
14	Windowless gas targets for neutron production. , 1997, , .		5
15	Characterization of the radiation background at the Spallation Neutron Source. <i>Journal of Physics: Conference Series</i> , 2016, 746, 012033.	0.4	5
16	Status of the NPDGamma experiment. <i>Hyperfine Interactions</i> , 2017, 238, 1.	0.5	5
17	Measured Spectral Brightness of the HFIR Supercritical Hydrogen Cold Source. <i>Neutron News</i> , 2008, 19, 17-19.	0.2	3
18	Small deuteron accelerator as a source of slow neutrons. , 1997, 2867, 533.		2

#	ARTICLE	IF	CITATIONS
19	The Spallation Neutron Source (SNS) project: a fertile ground for radiation protection and shielding challenges. Radiation Protection Dosimetry, 2005, 115, 23-32.	0.8	2
20	RFQ-accelerator-based neutron radiography and tomography system. , 1997, 2867, 347.		1
21	Prospects for Solid Ammonia as a Cold Moderator. Journal of Neutron Research, 2003, 11, 41-49.	1.1	1
22	Target station shielding issues at the spallation neutron source. Radiation Protection Dosimetry, 2005, 115, 170-175.	0.8	1
23	A neutron sensitive microchannel plate detector with cross delay line readout. , 2012, , .		1
24	A sample holder for simultaneous Raman and neutron vibrational spectroscopy. Review of Scientific Instruments, 2018, 89, 013112.	1.3	1
25	NEUTRONIC CHARACTERISTICS OF THE SPALLATION NEUTRON SOURCE. , 2002, , .		1
26	MEASUREMENT OF THE NEUTRON SPECTRUM OF THE HB-4 COLD SOURCE AT THE HIGH FLUX ISOTOPE REACTOR AT OAK RIDGE NATIONAL LABORATORY. , 2009, , .		1
27	Methods and procedures for shielding analyses for the SNS. Progress in Nuclear Science and Technology, 2014, 4, 753-756.	0.3	1
28	SNS MODERATOR POISON DESIGN AND EXPERIMENT VALIDATION OF THE MODERATOR PERFORMANCE. , 2009, , .		1
29	Detection of iron overload with the ORNL Spallation Neutron Source: An MCNPX simulation study. , 2008, , .		0
30	Neutron Spectral Brightness of Cold Guide 4 at the High Flux Isotope Reactor. Journal of Physics: Conference Series, 2010, 251, 012062.	0.4	0