Erik B Iverson

List of Publications by Year
in descending order

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	Experimental Search for Neutron to Mirror Neutron Oscillations as an Explanation of the Neutron Lifetime Anomaly. Physical Review Letters, 2022, 128, .	7.8	11
2	POWGEN: rebuild of a third-generation powder diffractometer at the Spallation Neutron Source. Journal of Applied Crystallography, 2019, 52, 1189-1201.	4.5	57
3	A sample holder for simultaneous Raman and neutron vibrational spectroscopy. Review of Scientific Instruments, 2018, 89, 013112.	1.3	1
4	First Observation of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>P</mml:mi></mml:math> -odd <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Î³</mml:mi></mml:math> Asymmetry in Polarized Neutron Capture on Hydrogen. Physical Review Letters, 2018, 121, 242002.	7.8	33
5	Status of the NPDGamma experiment. Hyperfine Interactions, 2017, 238, 1.	0.5	5
6	Characterization of the radiation background at the Spallation Neutron Source. Journal of Physics: Conference Series, 2016, 746, 012033.	0.4	5
7	Hydrogen adsorption on two catalysts for the ortho- to parahydrogen conversion: Cr-doped silica and ferric oxide gel. Physical Chemistry Chemical Physics, 2016, 18, 17281-17293.	2.8	34
8	The Macromolecular Neutron Diffractometer MaNDi at the Spallation Neutron Source. Journal of Applied Crystallography, 2015, 48, 1302-1306.	4.5	64
9	Enhancing neutron beam production with a convoluted moderator. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2014, 762, 31-41.	1.6	13
10	Methods and procedures for shielding analyses for the SNS. Progress in Nuclear Science and Technology, 2014, 4, 753-756.	0.3	1
11	A neutron sensitive microchannel plate detector with cross delay line readout. , 2012, , .		1
12	The new cold neutron chopper spectrometer at the Spallation Neutron Source: Design and performance. Review of Scientific Instruments, 2011, 82, 085108.	1.3	220
13	Neutron Spectral Brightness of Cold Guide 4 at the High Flux Isotope Reactor. Journal of Physics: Conference Series, 2010, 251, 012062.	0.4	0
14	MEASUREMENT OF THE NEUTRON SPECTRUM OF THE HB-4 COLD SOURCE AT THE HIGH FLUX ISOTOPE REACTOR AT OAK RIDGE NATIONAL LABORATORY. , 2009, , .		1
15	SNS MODERATOR POISON DESIGN AND EXPERIMENT VALIDATION OF THE MODERATOR PERFORMANCE. , 2009, , .		1
16	Moderator poison design and burn-up calculations at the SNS. Journal of Nuclear Materials, 2008, 377, 268-274.	2.7	8
17	Measured Spectral Brightness of the HFIR Supercritical Hydrogen Cold Source. Neutron News, 2008, 19, 17-19.	0.2	3
18	Detection of iron overload with the ORNL Spallation Neutron Source: An MCNPX simulation study. , 2008, , .		0

#	Article	IF	Citations
19	Neutron beamline shielding calculations at the SNS. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2006, 562, 946-949.	1.6	7
20	Target station shielding issues at the spallation neutron source. Radiation Protection Dosimetry, 2005, 115, 170-175.	0.8	1
21	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
22	The Spallation Neutron Source High Power Target Station Moderator Performance: Calculations and Studies. Journal of Neutron Research, 2003, 11, 83-91.	1.1	10
23	Prospects for Solid Ammonia as a Cold Moderator. Journal of Neutron Research, 2003, 11, 41-49.	1.1	1
24	Time focusing of pulsed-source crystal analyzer spectrometers. Part II: practical expressions. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2002, 483, 784-806.	1.6	12
25	NEUTRONIC CHARACTERISTICS OF THE SPALLATION NEUTRON SOURCE. , 2002, , .		1
26	The 10,000,000,000-Volt question: What is the best choice of proton energy to drive a pulsed spallation neutron source?. Physica B: Condensed Matter, 1999, 270, 272-279.	2.7	25
27	Windowless gas targets for neutron production. , 1997, , .		5
28	RFQ-accelerator-based neutron radiography and tomography system. , 1997, 2867, 347.		1
29	Small deuteron accelerator as a source of slow neutrons. , 1997, 2867, 533.		2
30	First Results from the VULCAN Diffractometer at the SNS. Materials Science Forum, 0, 652, 105-110.	0.3	36