

Peter F Peterson

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3043109/publications.pdf>

Version: 2024-02-01

23
papers

2,166
citations

759233

12
h-index

677142

22
g-index

25
all docs

25
docs citations

25
times ranked

3471
citing authors

#	ARTICLE	IF	CITATIONS
1	Mantid: a data analysis and visualization package for neutron scattering and SR experiments. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2014, 264, 156-166.	1.6	1,257
2	PDFgetN: a user-friendly program to extract the total scattering structure factor and the pair distribution function from neutron powder diffraction data. Journal of Applied Crystallography, 2000, 33, 1192-1192.	4.5	262
3	The NeXus data format. Journal of Applied Crystallography, 2015, 48, 301-305.	4.5	133
4	Improved measures of quality for the atomic pair distribution function. Journal of Applied Crystallography, 2003, 36, 53-64.	4.5	96
5	Integration of neutron time-of-flight single-crystal Bragg peaks in reciprocal space. Journal of Applied Crystallography, 2014, 47, 915-921.	4.5	82
6	CrystalPlan: an experiment-planning tool for crystallography. Journal of Applied Crystallography, 2011, 44, 418-423.	4.5	67
7	POWGEN: rebuild of a third-generation powder diffractometer at the Spallation Neutron Source. Journal of Applied Crystallography, 2019, 52, 1189-1201.	4.5	57
8	Local atomic strain in ZnSe from high real-space resolution neutron pair distribution function measurements. Physical Review B, 2001, 63, .	3.2	39
9	Event-based processing of neutron scattering data at the Spallation Neutron Source. Journal of Applied Crystallography, 2018, 51, 616-629.	4.5	35
10	Event-based processing of neutron scattering data. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2015, 803, 24-28.	1.6	34
11	Illustrated formalisms for total scattering data: a guide for new practitioners. Journal of Applied Crystallography, 2021, 54, 317-332.	4.5	23
12	Combinatorial appraisal of transition states for in situ pair distribution function analysis. Journal of Applied Crystallography, 2017, 50, 1744-1753.	4.5	18
13	Capturing the Details of N ₂ Adsorption in Zeolite X Using Stroboscopic Isotope Contrast Neutron Total Scattering. Chemistry of Materials, 2018, 30, 296-302.	6.7	12
14	The Neutron Science TeraGrid Gateway: a TeraGrid science gateway to support the Spallation Neutron Source. Concurrency Computation Practice and Experience, 2007, 19, 809-826.	2.2	9
15	A high precision gas flow cell for performing in situ neutron studies of local atomic structure in catalytic materials. Review of Scientific Instruments, 2017, 88, 034101.	1.3	9
16	Advances in utilizing event based data structures for neutron scattering experiments. Review of Scientific Instruments, 2018, 89, 093001.	1.3	9
17	pyRS: a user-friendly package for the reduction and analysis of neutron diffraction data measured at the High Intensity Diffractometer for Residual Stress Analysis. Journal of Applied Crystallography, 2021, 54, 1886-1893.	4.5	7
18	Time-of-flight neutron total scattering with applied electric fields: Ex situ and in situ studies of ferroelectric materials. Review of Scientific Instruments, 2018, 89, 092905.	1.3	4

#	ARTICLE	IF	CITATIONS
19	Efficient Data Management in Neutron Scattering Data Reduction Workflows at ORNL. , 2020, , .		4
20	The SNS/HFIR Web Portal System for SANS. Journal of Physics: Conference Series, 2010, 247, 012013.	0.4	3
21	The SNS/HFIR Web Portal System “ How Can it Help Me?. Journal of Physics: Conference Series, 2010, 251, 012096.	0.4	2
22	Performance Improvements on SNS and HFIR Instrument Data Reduction Workflows Using Mantid. Communications in Computer and Information Science, 2020, , 175-186.	0.5	2
23	Efficient loading of reduced data ensembles produced at ORNL SNS/HFIR neutron time-of-flight facilities. , 2021, , .		1