

# Peter F Peterson

## List of Publications by Year in descending order

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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	Illustrated formalisms for total scattering data: a guide for new practitioners. Journal of Applied Crystallography, 2021, 54, 317-332.	4.5	23
2	<i>pyRS</i>: 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
3	Efficient loading of reduced data ensembles produced at ORNL SNS/HFIR neutron time-of-flight facilities. , 2021, , .		1
4	Efficient Data Management in Neutron Scattering Data Reduction Workflows at ORNL. , 2020, , .		4
5	Performance Improvements on SNS and HFIR Instrument Data Reduction Workflows Using Mantid. Communications in Computer and Information Science, 2020, , 175-186.	0.5	2
6	POWGEN: rebuild of a third-generation powder diffractometer at the Spallation Neutron Source. Journal of Applied Crystallography, 2019, 52, 1189-1201.	4.5	57
7	Capturing the Details of N<sub>2</sub> Adsorption in Zeolite X Using Stroboscopic Isotope Contrasted Neutron Total Scattering. Chemistry of Materials, 2018, 30, 296-302.	6.7	12
8	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
9	Advances in utilizing event based data structures for neutron scattering experiments. Review of Scientific Instruments, 2018, 89, 093001.	1.3	9
10	Event-based processing of neutron scattering data at the Spallation Neutron Source. Journal of Applied Crystallography, 2018, 51, 616-629.	4.5	35
11	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
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	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
14	The NeXus data format. Journal of Applied Crystallography, 2015, 48, 301-305.	4.5	133
15	Mantid: Data analysis and visualization package for neutron scattering and $\frac{1}{4}$ SR experiments. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2014, 764, 156-166.	1.6	1,257
16	Integration of neutron time-of-flight single-crystal Bragg peaks in reciprocal space. Journal of Applied Crystallography, 2014, 47, 915-921.	4.5	82
17	<i>CrystalPlan</i>: an experiment-planning tool for crystallography. Journal of Applied Crystallography, 2011, 44, 418-423.	4.5	67
18	The SNS/HFIR Web Portal System – How Can it Help Me?. Journal of Physics: Conference Series, 2010, 251, 012096.	0.4	2

#	ARTICLE	IF	CITATIONS
19	The SNS/HFIR Web Portal System for SANS. Journal of Physics: Conference Series, 2010, 247, 012013.	0.4	3
20	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
21	Improved measures of quality for the atomic pair distribution function. Journal of Applied Crystallography, 2003, 36, 53-64.	4.5	96
22	Local atomic strain in ZnSe from high real-space resolution neutron pair distribution function measurements. Physical Review B, 2001, 63, .	3.2	39
23	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