

# Stuart I Campbell

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/995038/publications.pdf>

Version: 2024-02-01

29  
papers

2,379  
citations

840776

11  
h-index

677142

22  
g-index

32  
all docs

32  
docs citations

32  
times ranked

4006  
citing authors

#	ARTICLE	IF	CITATIONS
1	Mantidâ€” 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
2	Supramolecular binding and separation of hydrocarbons within a functionalized porous metalâ€”organic framework. Nature Chemistry, 2015, 7, 121-129.	13.6	530
3	The NeXus data format. Journal of Applied Crystallography, 2015, 48, 301-305.	4.5	133
4	Spectroscopic characteristics of the OSIRIS near-backscattering crystal analyser spectrometer on the ISIS pulsed neutron source. Physical Chemistry Chemical Physics, 2005, 7, 1255-1261.	2.8	116
5	<i>Xi-cam</i> : a versatile interface for data visualization and analysis. Journal of Synchrotron Radiation, 2018, 25, 1261-1270.	2.4	89
6	Bluesky's Ahead: A Multi-Facility Collaboration for an <i>a la Carte</i> Software Project for Data Acquisition and Management. Synchrotron Radiation News, 2019, 32, 19-22.	0.8	54
7	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
8	The optimisation of analyser geometry in near-backscattering spectrometers â€” IRIS on the ISIS-pulsed source. Physica B: Condensed Matter, 2000, 276-278, 206-207.	2.7	16
9	PyXRF: Python-based X-ray fluorescence analysis package. , 2017, , .		13
10	Quasi-elastic neutron scattering study of the hydrogen diffusion in the C15 Laves structure, TiCr <sub>1.85</sub> . Journal of Alloys and Compounds, 1999, 293-295, 351-355.	5.5	12
11	Performance of the new pyrolytic graphite analyser bank on the near-backscattering spectrometer IRIS on the ISIS pulsed source. Applied Physics A: Materials Science and Processing, 2002, 74, s61-s63.	2.3	12
12	A Python Instrument Control and Data Acquisition Suite for Reproducible Research. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 1698-1707.	4.7	12
13	Water dynamics in Na zeolite P by QENS. Physica B: Condensed Matter, 1997, 234-236, 914-916.	2.7	11
14	Outlook for artificial intelligence and machine learning at the NSLS-II. Machine Learning: Science and Technology, 2021, 2, 013001.	5.0	11
15	ISIS Target Station II: Preliminary Target and Moderator Simulations. Journal of Neutron Research, 2003, 11, 93-98.	1.1	10
16	Machine learning enabling high-throughput and remote operations at large-scale user facilities. , 2022, 1, 413-426.		10
17	Accelerating Data Acquisition, Reduction, and Analysis at the Spallation Neutron Source. , 2014, , .		9
18	Gaming the beamlinesâ€”employing reinforcement learning to maximize scientific outcomes at large-scale user facilities. Machine Learning: Science and Technology, 2021, 2, 025025.	5.0	8

#	ARTICLE	IF	CITATIONS
19	Future trends in synchrotron science at NSLS-II. Journal of Physics Condensed Matter, 2020, 32, 374008.	1.8	7
20	X-Ray and neutron reflectivity investigations of Co/Cu multilayers. Physica B: Condensed Matter, 1998, 248, 152-156.	2.7	5
21	Enabling Scientific Discovery at Next-Generation Light Sources with Advanced AI and HPC. Communications in Computer and Information Science, 2020, , 145-156.	0.5	4
22	The SNS/HFIR Web Portal System for SANS. Journal of Physics: Conference Series, 2010, 247, 012013.	0.4	3
23	Multimodal Synchrotron Approach: Research Needs and Scientific Vision. Synchrotron Radiation News, 2020, 33, 44-47.	0.8	3
24	The SNS/HFIR Web Portal System – How Can it Help Me?. Journal of Physics: Conference Series, 2010, 251, 012096.	0.4	2
25	Integrating Advanced Materials Simulation Techniques into an Automated Data Analysis Workflow at the Spallation Neutron Source. , 2014, , 297-308.		1
26	Optimizing High- Throughput Capabilities by Leveraging Reinforcement Learning Methods with the Bluesky Suite. , 2021, , .		1
27	A study of the tetragonal to ortho 1 phase transition in YBa2Cu3Ox. Physica B: Condensed Matter, 1997, 234-236, 925-927.	2.7	0
28	A quasi-elastic neutron-scattering study of hydrogen diffusion in C15 Leaves-phase compounds HfV2H0.1. Physica B: Condensed Matter, 1997, 241-243, 326-328.	2.7	0
29	Experimental Data Curation at Large Instrument Facilities with Open Source Software. International Journal of Digital Curation, 2019, 14, 114-125.	0.2	0