Stuart I Campbell

List of Publications by Year
in descending order

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	Machine learning enabling high-throughput and remote operations at large-scale user facilities. , 2022, 1, 413-426.		10
2	Outlook for artificial intelligence and machine learning at the NSLS-II. Machine Learning: Science and Technology, 2021, 2, 013001.	5.0	11
3	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
4	Optimizing High- Throughput Capabilities by Leveraging Reinforcement Learning Methods with the Bluesky Suite. , 2021, , .		1
5	A Python Instrument Control and Data Acquisition Suite for Reproducible Research. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 1698-1707.	4.7	12
6	Future trends in synchrotron science at NSLS-II. Journal of Physics Condensed Matter, 2020, 32, 374008.	1.8	7
7	Multimodal Synchrotron Approach: Research Needs and Scientific Vision. Synchrotron Radiation News, 2020, 33, 44-47.	0.8	3
8	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
9	Bluesky's Ahead: A Multi-Facility Collaboration for an a la Carte Software Project for Data Acquisition and Management. Synchrotron Radiation News, 2019, 32, 19-22.	0.8	54
10	Experimental Data Curation at Large Instrument Facilities with Open Source Software. International Journal of Digital Curation, 2019, 14, 114-125.	0.2	0
11	Xi-cam: a versatile interface for data visualization and analysis. Journal of Synchrotron Radiation, 2018, 25, 1261-1270.	2.4	89
12	PyXRF: Python-based X-ray fluorescence analysis package. , 2017, , .		13
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	Supramolecular binding and separation of hydrocarbons within a functionalized porous metalâ€“organic framework. Nature Chemistry, 2015, 7, 121-129.	13.6	530
16	Accelerating Data Acquisition, Reduction, and Analysis at the Spallation Neutron Source. , 2014, , .		9
17	Mantidâ€”Data analysis and visualization package for neutron scattering and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si0002.gif" overflow="scroll"><mml:mi mathvariant="normal">Î¼</mml:mi></mml:math> 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
18	Integrating Advanced Materials Simulation Techniques into an Automated Data Analysis Workflow at the Spallation Neutron Source. , 2014, , 297-308.		1

#	Article	IF	Citations
19	The SNS/HFIR Web Portal System â€“ How Can it Help Me?. Journal of Physics: Conference Series, 2010, 251, 012096.	0.4	2
20	The SNS/HFIR Web Portal System for SANS. Journal of Physics: Conference Series, 2010, 247, 012013.	0.4	3
21	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
22	ISIS Target Station II: Preliminary Target and Moderator Simulations. Journal of Neutron Research, 2003, 11, 93-98.	1.1	10
23	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
24	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
25	Quasi-elastic neutron scattering study of the hydrogen diffusion in the C15 Laves structure, TiCr1.85. Journal of Alloys and Compounds, 1999, 293-295, 351-355.	5.5	12
26	X-Ray and neutron reflectivity investigations of Co/Cu multilayers. Physica B: Condensed Matter, 1998, 248, 152-156.	2.7	5
27	Water dynamics in Na zeolite P by QENS. Physica B: Condensed Matter, 1997, 234-236, 914-916.	2.7	11
28	A study of the tetragonal to ortho 1 phase transition in YBa2Cu3Ox. Physica B: Condensed Matter, 1997, 234-236, 925-927.	2.7	0
29	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