

Thomas Kittelmann

List of Publications by Year in descending order

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22
papers

251
citations

933447

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940533

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22
all docs

22
docs citations

22
times ranked

178
citing authors

#	ARTICLE	IF	CITATIONS
1	NJOY+NCrystal: An open-source tool for creating thermal neutron scattering libraries with mixed elastic support. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2022, 1027, 166227.	1.6	14
2	General considerations for effective thermal neutron shielding in detector applications. EPJ Techniques and Instrumentation, 2022, 9, .	1.3	2
3	Computing and Detector Simulation Framework for the HIBEAM/NNBAR Experimental Program at the ESS. EPJ Web of Conferences, 2021, 251, 02062.	0.3	7
4	A simulational study of the indirect-geometry neutron spectrometer BIFROST at the European Spallation Source, from neutron source position to detector position. Journal of Applied Crystallography, 2021, 54, 263-279.	4.5	5
5	New high-sensitivity searches for neutrons converting into antineutrons and/or sterile neutrons at the HIBEAM/NNBAR experiment at the European Spallation Source. Journal of Physics G: Nuclear and Particle Physics, 2021, 48, 070501.	3.6	33
6	Elastic neutron scattering models for NCrystal. Computer Physics Communications, 2021, 267, 108082.	7.5	7
7	NCrystal: A library for thermal neutron transport. Computer Physics Communications, 2020, 246, 106851.	7.5	40
8	Characterization of boron-coated silicon sensors for thermal neutron detection. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2020, 972, 164124.	1.6	6
9	Suppression of intrinsic neutron background in the Multi-Grid detector. Journal of Instrumentation, 2019, 14, P01021-P01021.	1.2	6
10	Rejection-based sampling of inelastic neutron scattering. Journal of Computational Physics, 2019, 380, 400-407.	3.8	15
11	Complex Geant4 Simulation Study for the Optimisation of Multi-Grid Detector. , 2019, , .		0
12	Simulation tools for detector and instrument design. Physica B: Condensed Matter, 2018, 551, 386-389.	2.7	14
13	Investigation of neutron scattering in the Multi-Blade detector with Geant4 simulations. Journal of Instrumentation, 2018, 13, P12031-P12031.	1.2	3
14	Detector rates for the Small Angle Neutron Scattering instruments at the European Spallation Source. Journal of Instrumentation, 2018, 13, P07016-P07016.	1.2	10
15	Scattered neutron background in thermal neutron detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2018, 902, 173-183.	1.6	13
16	Using Back-Scattering to Enhance Efficiency in Neutron Detectors. IEEE Transactions on Nuclear Science, 2017, , 1-1.	2.0	2
17	Monte Carlo Particle Lists: MCPL. Computer Physics Communications, 2017, 218, 17-42.	7.5	24
18	Validation of Detailed Geant4 Model for Thermal Neutron Scattering using the Results of Multi-Grid Detector Prototype Test at CNCS at SNS. , 2017, , .		0

#	ARTICLE	IF	CITATIONS
19	Shielding optimization study for ¹⁰ B-Based large area neutron detectors with detailed Geant4 model. , 2016, , .		1
20	Polycrystalline neutron scattering for Geant4: NXSG4. Computer Physics Communications, 2015, 189, 114-118.	7.5	22
21	Geant4 based simulations for novel neutron detector development. Journal of Physics: Conference Series, 2014, 513, 022017.	0.4	27
22	Statistical energy determination in neutron detector systems for neutron scattering science. , 2012, , .		0