Thomas Kittelmann

List of Publications by Year
in descending order

22 papers	**251** citations	**10** h-index	**16** g-index
22 all docs	**22** docs citations	**22** times ranked	**178** citing authors

#	Article	IF	Citations
1	NCrystal: A library for thermal neutron transport. Computer Physics Communications, 2020, 246, 106851.	7.5	40
2	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
3	Geant4 based simulations for novel neutron detector development. Journal of Physics: Conference Series, 2014, 513, 022017.	0.4	27
4	Monte Carlo Particle Lists: MCPL. Computer Physics Communications, 2017, 218, 17-42.	7.5	24
5	Polycrystalline neutron scattering for Geant4: NXSG4. Computer Physics Communications, 2015, 189, 114-118.	7.5	22
6	Rejection-based sampling of inelastic neutron scattering. Journal of Computational Physics, 2019, 380, 400-407.	3.8	15
7	Simulation tools for detector and instrument design. Physica B: Condensed Matter, 2018, 551, 386-389.	2.7	14
8	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
9	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
10	Detector rates for the Small Angle Neutron Scattering instruments at the European Spallation Source. Journal of Instrumentation, 2018, 13, P07016-P07016.	1.2	10
11	Computing and Detector Simulation Framework for the HIBEAM/NNBAR Experimental Program at the ESS. EPJ Web of Conferences, 2021, 251, 02062.	0.3	7
12	Elastic neutron scattering models for NCrystal. Computer Physics Communications, 2021, 267, 108082.	7.5	7
13	Suppression of intrinsic neutron background in the Multi-Grid detector. Journal of Instrumentation, 2019, 14, P01021-P01021.	1.2	6
14	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
15	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
16	Investigation of neutron scattering in the Multi-Blade detector with Geant4 simulations. Journal of Instrumentation, 2018, 13, P12031-P12031.	1.2	3
17	Using Back-Scattering to Enhance Efficiency in Neutron Detectors. IEEE Transactions on Nuclear Science, 2017, , 1-1.	2.0	2
18	General considerations for effective thermal neutron shielding in detector applications. EPJ Techniques and Instrumentation, 2022, 9, .	1.3	2

#	Article	IF	Citations
19	Shielding optimization study for ^{10}B-Based large area neutron detectors with detailed Geant4 model. , 2016, , .		1
20	Statistical energy determination in neutron detector systems for neutron scattering science. , 2012, , .		0
21	Validation of Detailed Geant4 Model for Thermal Neutron Scattering using the Results of Multi-Grid Detector Prototype Test at CNCS at SNS. , 2017, , .		0
22	Complex Geant4 Simulation Study for the Optimisation of Multi-Grid Detector. , 2019, , .		0