

Francesco Piscitelli

List of Publications by Year in descending order

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34
papers

690
citations

623734

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552781

26
g-index

35
all docs

35
docs citations

35
times ranked

453
citing authors

#	ARTICLE	IF	CITATIONS
1	B4C thin films for neutron detection. Journal of Applied Physics, 2012, 111, .	2.5	128
2	The instrument suite of the European Spallation Source. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2020, 957, 163402.	1.6	90
3	Neutron detection techniques from $\frac{1}{4}$ to GeV. Physics Reports, 2020, 875, 1-65.	25.6	43
4	Analytical modeling of thin film neutron converters and its application to thermal neutron gas detectors. Journal of Instrumentation, 2013, 8, P04020-P04020.	1.2	41
5	The Multi-Blade Boron-10-based neutron detector for high intensity neutron reflectometry at ESS. Journal of Instrumentation, 2017, 12, P03013-P03013.	1.2	37
6	^{10}B Multi-Grid as an Alternative to ^3He for Large Area Neutron Detectors. IEEE Transactions on Nuclear Science, 2013, 60, 871-878.	2.0	35
7	Study of a high spatial resolution ^{10}B -based thermal neutron detector for application in neutron reflectometry: the Multi-Blade prototype. Journal of Instrumentation, 2014, 9, P03007-P03007.	1.2	34
8	^{10}B multi-grid proportional gas counters for large area thermal neutron detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2013, 720, 116-121.	1.6	33
9	Investigation of gamma-ray sensitivity of neutron detectors based on thin converter films. Journal of Instrumentation, 2013, 8, P10025-P10025.	1.2	29
10	Multi-Grid detector for neutron spectroscopy: results obtained on time-of-flight spectrometer CNCS. Journal of Instrumentation, 2017, 12, P04030-P04030.	1.2	29
11	^{10}B multi-grid proportional gas counters for large area thermal neutron detectors. Neutron News, 2012, 23, 20-25.	0.2	26
12	In-beam test of the Boron-10 Multi-Grid neutron detector at the IN6 time-of-flight spectrometer at the ILL. Journal of Physics: Conference Series, 2014, 528, 012040.	0.4	21
13	Fast neutron sensitivity of neutron detectors based on Boron-10 converter layers. Journal of Instrumentation, 2018, 13, P03004-P03004.	1.2	20
14	Characterization of the Multi-Blade ^{10}B -based detector at the CRISP reflectometer at ISIS for neutron reflectometry at ESS. Journal of Instrumentation, 2018, 13, P05009-P05009.	1.2	18
15	Novel boron-10-based detectors for neutron scattering science. European Physical Journal Plus, 2015, 130, 1.	2.6	14
16	Study of a ^{10}B -based multi-blade detector for neutron scattering science. , 2012, , .		12
17	Neutron reflectometry with the Multi-Blade ^{10}B -based detector. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2018, 474, 20180266.	2.1	11
18	A novel small-angle neutron scattering detector geometry. Journal of Applied Crystallography, 2013, 46, 1031-1037.	4.5	9

#	ARTICLE	IF	CITATIONS
19	Software-based data acquisition and processing for neutron detectors at European Spallation Source—early experience from four detector designs. <i>Journal of Instrumentation</i> , 2018, 13, T11002-T11002.	1.2	8
20	Adaptive algorithms of position and energy reconstruction in Anger-camera type detectors: experimental data processing in ANTS. <i>Journal of Instrumentation</i> , 2013, 8, P05002-P05002.	1.2	7
21	Investigation of background in large-area neutron detectors due to alpha emission from impurities in aluminium. <i>Journal of Instrumentation</i> , 2015, 10, P10019-P10019.	1.2	7
22	Fast neutron sensitivity for ^3He detectors and comparison with Boron-10 based neutron detectors. <i>EPJ Techniques and Instrumentation</i> , 2019, 6, .	1.3	7
23	Neutron reflectometry on highly absorbing films and its application to ^{10}B ^4C -based neutron detectors. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2016, 472, 20150711.	2.1	6
24	The Multi-Blade: The ^{10}B -based neutron detector for reflectometry at ESS. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2019, 936, 499-500.	1.6	5
25	The Multi-Blade Boron-10-based neutron detector performance using a focusing reflectometer. <i>Journal of Instrumentation</i> , 2020, 15, P03010-P03010.	1.2	5
26	ANTS — a simulation package for secondary scintillation Anger-camera type detector in thermal neutron imaging. <i>Journal of Instrumentation</i> , 2012, 7, P08010-P08010.	1.2	4
27	Verification of He-3 proportional counters—fast neutron sensitivity through a comparison with He-4 detectors. <i>European Physical Journal Plus</i> , 2020, 135, 1.	2.6	4
28	Investigation of neutron scattering in the Multi-Blade detector with Geant4 simulations. <i>Journal of Instrumentation</i> , 2018, 13, P12031-P12031.	1.2	3
29	Multi-Grid boron-10 detector for time-of-flight spectrometers in neutron scattering science. , 2015, , .		1
30	ANTS: A simulation package for gas scintillation Anger camera in thermal neutron imaging. , 2011, , .		0
31	An information-theoretical approach to image resolution applied to neutron imaging detectors based upon individual discriminator signals. , 2013, , .		0
32	An alternative small angle neutron scattering detector. , 2013, , .		0
33	Neutron beam monitors for the European spallation source. , 2015, , .		0
34	An Information-Theoretical Approach to Image Resolution Applied to Neutron Imaging Detectors Based Upon Individual Discriminator Signals. <i>IEEE Transactions on Nuclear Science</i> , 2017, 64, 735-742.	2.0	0