

Zdenek Matej

List of Publications by Year in descending order

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Version: 2024-02-01

29
papers

236
citations

1163117

8
h-index

996975

15
g-index

30
all docs

30
docs citations

30
times ranked

77
citing authors

#	ARTICLE	IF	CITATIONS
1	Measurement of neutron spectra in a silicon filtered neutron beam using stilbene detectors at the LVR-15 research reactor. Applied Radiation and Isotopes, 2017, 128, 41-48.	1.5	37
2	Measurement and calculation of fast neutron and gamma spectra in well defined cores in LR-0 reactor. Applied Radiation and Isotopes, 2017, 120, 45-50.	1.5	30
3	Comparison of fast neutron spectra in graphite and FLINA salt inserted in well-defined core assembled in LR-0 reactor. Annals of Nuclear Energy, 2015, 83, 216-225.	1.8	29
4	On similarity of various reactor spectra and ²³⁵ U prompt fission neutron spectrum. Applied Radiation and Isotopes, 2018, 135, 83-91.	1.5	22
5	Quick algorithms for real-time discrimination of neutrons and gamma rays. Journal of Radioanalytical and Nuclear Chemistry, 2015, 303, 583-599.	1.5	18
6	Characterization of mixed N/G beam of the VR-1 reactor. Annals of Nuclear Energy, 2018, 122, 69-78.	1.8	15
7	The methodology of characterization of neutron leakage field from PET production cyclotron for experimental purposes. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2019, 942, 162374.	1.6	9
8	The characterization of ²⁵² Cf neutron generators in precise neutron experiments. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2022, 1034, 166837.	1.6	9
9	Digital two-parametric processing of the output data from radiation detectors. Progress in Nuclear Science and Technology, 2014, 4, 670-674.	0.3	8
10	The methodology for validation of cross sections in quasi monoenergetic neutron field. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2022, 1040, 167075.	1.6	8
11	Comparison of Neutron-Gamma Separation Qualities of Various Organic Scintillation Materials and Liquid Scintillator LSB-200. Journal of Nuclear Engineering and Radiation Science, 2021, 7, .	0.4	6
12	Fast neutron spectra measurement in a copper using a ²⁵² Cf standard neutron source. Radiation Physics and Chemistry, 2022, 192, 109871.	2.8	6
13	Measurements of neutron transport of well defined silicon filtered beam in lead. Applied Radiation and Isotopes, 2018, 142, 160-166.	1.5	5
14	The influence of core power distribution on neutron flux density behind a pressure vessel of a VVER-1000 Mock Up in LR-0 reactor. Applied Radiation and Isotopes, 2018, 142, 12-21.	1.5	5
15	The effect of local power increase on neutron flux in internal parts of the VVER-1000 Mock-Up in LR-0 reactor. Annals of Nuclear Energy, 2018, 121, 567-576.	1.8	5
16	Fast digital spectrometer for mixed radiation fields. , 2017, , .		4
17	Validation of heavy water cross section using AmBe neutron source. EPJ Web of Conferences, 2020, 239, 18008.	0.3	4
18	Measurement of prompt gamma field above the VR-1 water level. EPJ Web of Conferences, 2021, 253, 04014.	0.3	4

#	ARTICLE	IF	CITATIONS
19	Testing of Scintillation Detectors in Quasi-Monoenergetic Neutron Spectra in a Silicon Filtered Neutron Beam at the LVR-15 Research Reactor. Journal of Nuclear Engineering and Radiation Science, 2019, 5, .	0.4	3
20	Characterization of the neutron flux on the surface of a liquid water target intended for ¹⁸ F production. Radiation Physics and Chemistry, 2021, 184, 109475.	2.8	3
21	Validation of the Fast Neutron Field in the Radial Channel of the VR-1 Reactor. Journal of Nuclear Engineering and Radiation Science, 2021, 7, .	0.4	2
22	Response to Mono-Energetic Neutrons and Light Output Function for Liquid Organic Scintillators PYR5/DIPN and THIO5/DIPN. Quantum Beam Science, 2022, 6, 18.	1.2	2
23	The Application of Silicon-Filtered Beam in the Validation of Iron Cross Sections by Deep Penetration Experiments. Journal of Nuclear Engineering and Radiation Science, 2021, 7, .	0.4	1
24	Calculation and measurement of Al prompt capture gammas above water in a pool-type reactor. Nuclear Engineering and Technology, 2022, 54, 3824-3832.	2.3	1
25	Perspective liquid scintillators for spectrometry of neutron and gamma radiation. EPJ Web of Conferences, 2020, 225, 04011.	0.3	0
26	Comparison of neutron/gamma separation qualities of various organic scintillation materials. EPJ Web of Conferences, 2020, 225, 04017.	0.3	0
27	Perspective liquid scintillators for spectrometry of neutron and gamma radiation. EPJ Web of Conferences, 2020, 225, 05006.	0.3	0
28	CHARACTERIZATION AND COMPARSION OF NEUTRON GENERATORS OF IEC AND LINEAR D-T BY THE SPECTROMETRIC SYSTEM NGA-01. EPJ Web of Conferences, 2021, 247, 18004.	0.3	0
29	Tests of Various Scintillator Detectors in Selected Mono-Energetic Neutron Beams. EPJ Web of Conferences, 2021, 253, 07007.	0.3	0