Gašper Žerovnik

List of Publications by Year
in descending order

33	759	623734	501196
papers	citations	14	28
		h-index	g-index

33	33	33	505
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Computational analysis of irradiation facilities at the JSI TRIGA reactor. Applied Radiation and Isotopes, 2012, 70, 483-488.	1.5	195
2	On normalization of fluxes and reaction rates in MCNP criticality calculations. Annals of Nuclear Energy, 2014, 63, 126-128.	1.8	76
3	Analysis of neutron flux distribution for the validation of computational methods for the optimization of research reactor utilization. Applied Radiation and Isotopes, 2011, 69, 136-141.	1.5	71
4	Calculation of kinetic parameters for mixed TRIGA cores with Monte Carlo. Annals of Nuclear Energy, 2010, 37, 223-229.	1.8	62
5	Computational analysis of the dose rates at JSI TRIGA reactor irradiation facilities. Applied Radiation and Isotopes, 2017, 130, 140-152.	1.5	59
6	Validation of the neutron and gamma fields in the JSI TRIGA reactor using in-core fission and ionization chambers. Applied Radiation and Isotopes, 2015, 96, 27-35.	1.5	51
7	Testing of cross section libraries on zirconium benchmarks. Annals of Nuclear Energy, 2012, 42, 71-79.	1.8	25
8	Evaluation of neutron flux and fission rate distributions inside the JSI TRIGA Mark II reactor using multiple in-core fission chambers. Annals of Nuclear Energy, 2018, 111, 407-440.	1.8	25
9	Transformation of correlation coefficients between normal and lognormal distribution and implications for nuclear applications. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2013, 727, 33-39.	1.6	24
10	Validation of neutron flux redistribution factors in JSI TRIGA reactor due to control rod movements. Applied Radiation and Isotopes, 2015, 104, 34-42.	1.5	24
11	Measurements of Thermal Power at the TRIGA Mark II Reactor in Ljubljana Using Multiple Detectors. IEEE Transactions on Nuclear Science, 2014, 61, 2527-2531.	2.0	23
12	Correlated random sampling for multivariate normal and log-normal distributions. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2012, 690, 75-78.	1.6	16
13	Validation of the Serpent 2 code on TRIGA Mark II benchmark experiments. Applied Radiation and Isotopes, 2016, 107, 165-170.	1.5	16
14	Optimization of Spent Nuclear Fuel Filling in Canisters for Deep Repository. Nuclear Science and Engineering, 2009, 163, 183-190.	1.1	15
15	Influence of resonance parameters' correlations on the resonance integral uncertainty; 55Mn case. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 632, 137-141.	1.6	9
16	Advanced methods in teaching reactor physics. Nuclear Engineering and Design, 2011, 241, 1008-1012.	1.7	9
17	TRIGLAV: A program package for TRIGA reactor calculations. Nuclear Engineering and Design, 2017, 318, 24-34.	1.7	9
18	Uncertainty analysis in the nuclear industry: Analytical unavailability modelling incorporating ageing of safety components. Journal of Loss Prevention in the Process Industries, 2012, 25, 643-649.	3.3	6

#	Article	IF	Citations
19	On random sampling of correlated resonance parameters with large uncertainties. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2013, 723, 89-98.	1.6	5
20	Systematic effects on cross-section data derived from reaction rates at a cold neutron beam. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2015, 799, 29-36.	1.6	5
21	Systematic effects on cross section data derived from reaction rates in reactor spectra and a re-analysis ofÂ241Am reactor activation measurements. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2018, 877, 300-313.	1.6	5
22	Constructive heuristics for the canister filling problem. Central European Journal of Operations Research, 2011, 19, 371-389.	1.8	4
23	Challenges and solutions for random sampling of parameters with extremely large uncertainties and analysis of the 232Th resonance covariances. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2014, 743, 39-43.	1.6	4
24	Multi-step Monte Carlo calculations applied to nuclear reactor instrumentation â€" Source definition and renormalization to physical values. , 2015, , .		4
25	Computer code ENDSAM for random sampling and validation of the resonance parameters covariance matrices of some major nuclear data libraries. Annals of Nuclear Energy, 2016, 94, 510-517.	1.8	4
26	Calculations to Support On-line Neutron Spectrum Adjustment by Measurements with Miniature Fission Chambers in the JSI TRIGA Reactor. EPJ Web of Conferences, 2018, 170, 04012.	0.3	4
27	Re-evaluation of the EURACOS integral shielding experiment series. Annals of Nuclear Energy, 2015, 77, 318-325.	1.8	3
28	Capture cross section measurement analysis in the Californium-252 spectrum with the Monte Carlo method. Applied Radiation and Isotopes, 2015, 101, 101-106.	1.5	2
29	An experimental comparison of some heuristics for cardinality constrained bin packing problem. Business Systems Research, 2012, 3, 57-63.	1.2	1
30	Improved measurements of thermal power and control rods using multiple detectors at the TRIGA Mark II reactor in Ljubljana. , 2013, , .		1
31	On the equivalence of neutron source and flux spectra. Annals of Nuclear Energy, 2017, 99, 54-57.	1.8	1
32	Evaluation of the criticality and reaction rate benchmark experiments utilizing UO2F2 aqueous solution of intermediate enrichment in spherical geometry at ORNL. Progress in Nuclear Energy, 2019, 111, 97-108.	2.9	1
33	Random sampling and validation of covariance matrices of resonance parameters. EPJ Web of Conferences, 2017, 146, 02014.	0.3	0