

Michal Herman

List of Publications by Year in descending order

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78
papers

8,952
citations

257101

24
h-index

79541

73
g-index

94
all docs

94
docs citations

94
times ranked

4206
citing authors

#	ARTICLE	IF	CITATIONS
1	Measurement of $\langle \sigma_{\text{tot}} \rangle$ for $n + ^{59}\text{Co}$ at $E_n = 10$ keV. Physical Review C, 2015, 91, 014607.	0.1	0
2	Informing nuclear physics via machine learning methods with differential and integral experiments. Physical Review C, 2021, 104, .	1.1	14
3	Infrastructure for the new paradigm of nuclear reaction evaluation. Annals of Nuclear Energy, 2021, 163, 108494.	0.9	4
4	Modeling Compound Nuclear Reactions with EMPIRE. Springer Proceedings in Physics, 2021, , 17-25.	0.1	0
5	Enhancing nuclear data validation analysis by using machine learning. Nuclear Data Sheets, 2020, 167, 36-60.	0.7	26
6	New paradigm for nuclear data evaluation. EPJ Web of Conferences, 2020, 239, 11001.	0.1	2
7	Results of the Collaborative International Evaluated Library Organisation (CIELO) Project. EPJ Web of Conferences, 2020, 239, 15003.	0.1	3
8	Overview of the OECD-NEA Working Party on International Nuclear Data Evaluation Cooperation (WPEC). EPJ Web of Conferences, 2020, 239, 15002.	0.1	0
9	IAEA CIELO Evaluation of Neutron-induced Reactions on ^{235}U and ^{238}U Targets. Nuclear Data Sheets, 2018, 148, 254-292.	0.7	33
10	ENDF/B-VIII.0: The 8 th Major Release of the Nuclear Reaction Data Library with CIELO-project Cross Sections, New Standards and Thermal Scattering Data. Nuclear Data Sheets, 2018, 148, 1-142.	0.7	1,324
11	CIELO Collaboration Summary Results: International Evaluations of Neutron Reactions on Uranium, Plutonium, Iron, Oxygen and Hydrogen. Nuclear Data Sheets, 2018, 148, 189-213.	0.7	73
12	Evaluation of Neutron Reactions on Iron Isotopes for CIELO and ENDF/B-VIII.0. Nuclear Data Sheets, 2018, 148, 214-253.	0.7	48
13	Modelling Neutron-induced Reactions on ^{232}U – ^{237}U from 10 keV up to 30 MeV. Nuclear Data Sheets, 2017, 139, 138-170.	0.7	18
14	The evaluation of experimental data in fast range for $n + ^{56}\text{Fe}(n, \text{inl})$. EPJ Web of Conferences, 2017, 146, 02037.	0.1	0
15	Production of platinum radioisotopes at Brookhaven Linac Isotope Producer (BLIP). EPJ Web of Conferences, 2017, 146, 09029.	0.1	1
16	New ^{56}Fe Evaluation for the CIELO project. EPJ Web of Conferences, 2016, 111, 03001.	0.1	2
17	Uncertainty quantification in the Nuclear Data Program. Journal of Physics C: Nuclear and Particle Physics, 2015, 42, 034020.	1.4	6
18	Derivation of an optical potential for statically deformed rare-earth nuclei from a global spherical potential. Physical Review C, 2015, 91, .	1.1	8

#	ARTICLE	IF	CITATIONS
19	Coupled channels optical model potential for rare earth nuclei. EPJ Web of Conferences, 2014, 69, 00007.	0.1	1
20	Towards an optical potential for rare-earths through coupled channels. , 2014, , .		1
21	Working Party on International Nuclear Data Evaluation Cooperation (WPEC). Nuclear Data Sheets, 2014, 120, 264-267.	0.7	2
22	Towards a More Complete and Accurate Experimental Nuclear Reaction Data Library (EXFOR): International Collaboration Between Nuclear Reaction Data Centres (NRDC). Nuclear Data Sheets, 2014, 120, 272-276.	0.7	629
23	EMPIRE: A Reaction Model Code for Nuclear Astrophysics. Nuclear Data Sheets, 2014, 120, 180-183.	0.7	0
24	National Nuclear Data Center: A Worldwide User Facility. Nuclear Physics News, 2012, 22, 23-26.	0.1	8
25	ENDF/B-VII.1 Nuclear Data for Science and Technology: Cross Sections, Covariances, Fission Product Yields and Decay Data. Nuclear Data Sheets, 2011, 112, 2887-2996.	0.7	2,100
26	ENDF/B-VII.1 Neutron Cross Section Data Testing with Critical Assembly Benchmarks and Reactor Experiments. Nuclear Data Sheets, 2011, 112, 2997-3036.	0.7	47
27	Neutron Cross Section Covariances for Structural Materials and Fission Products. Nuclear Data Sheets, 2011, 112, 3075-3097.	0.7	6
28	Sensitivity analysis of neutron total and absorption cross sections within the optical model. Physical Review C, 2011, 83, .	1.1	7
29	Fission Cross section Calculations of Actinides with EMPIRE Code. Journal of the Korean Physical Society, 2011, 59, 1015-1018.	0.3	4
30	Development of ENDF/B-VII.1 and its covariance component. Journal of the Korean Physical Society, 2011, 59, 1034-1039.	0.3	4
31	Use of Covariance Matrices in a Consistent (Multiscale) Data Assimilation for Improvement of Basic Nuclear Parameters in Nuclear Reactor Applications: from Meters to Femtometers. Journal of the Korean Physical Society, 2011, 59, 1123-1128.	0.3	9
32	Nuclear Data Target Accuracies for Generation-IV Systems Based on the Use of New Covariance Data. Journal of the Korean Physical Society, 2011, 59, 1264-1267.	0.3	14
33	International Cooperation in Nuclear Data Evaluation. Journal of the Korean Physical Society, 2011, 59, 1028-1033.	0.3	1
34	Practical Method for Estimating Neutron Cross Section Covariances in the Resonance Region. Journal of the Korean Physical Society, 2011, 59, 847-850.	0.3	0
35	Optical Model And Cross Section Uncertainties. EPJ Web of Conferences, 2010, 2, 01005.	0.1	1
36	Evaluated Nuclear Data. , 2010, , 83-187.		3

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37	RIPPL – Reference Input Parameter Library for Calculation of Nuclear Reactions and Nuclear Data Evaluations. Nuclear Data Sheets, 2009, 110, 3107-3214.	0.7	1,119
38	Extensive Set of Cross-Section Covariance Estimates in the Fast Neutron Region. Nuclear Science and Engineering, 2009, 162, 25-40.	0.5	8
39	Development of Covariance Capabilities in EMPIRE Code. Nuclear Data Sheets, 2008, 109, 2752-2761.	0.7	16
40	Evaluation of neutron cross sections for a complete set of Dy isotopes. Nuclear Instruments & Methods in Physics Research B, 2008, 266, 3513-3528.	0.6	2
41	Fast-neutron induced pre-equilibrium reactions on ⁵⁵ Mn and ^{63,65} Cu at energies up to 40 MeV. Nuclear Physics A, 2008, 806, 15-39.	0.6	22
42	Low-fidelity Covariance Project. Nuclear Data Sheets, 2008, 109, 2828-2833.	0.7	42
43	Estimated ⁵⁵ Mn and ⁹⁰ Zr Cross Section Covariances in the Fast Neutron Energy Region. Nuclear Data Sheets, 2008, 109, 2900-2904.	0.7	2
44	Processing Neutron Cross Section Covariances using NJOY-99 and PUFF-IV. Nuclear Data Sheets, 2008, 109, 2910-2914.	0.7	4
45	Deformation-dependent Tamura-Udagawa-Lenske multistep direct model. Physical Review C, 2008, 78, .	1.1	7
46	New Evaluation of the ⁹⁹ Tc Neutron-Induced Cross Sections for the ENDF/B-VII.0 Library. Nuclear Science and Engineering, 2008, 158, 68-77.	0.5	8
47	Evaluation of Neutron Cross Sections for a Complete Set of Nd Isotopes. Nuclear Science and Engineering, 2008, 160, 168-189.	0.5	4
48	EMPIRE: Nuclear Reaction Model Code System for Data Evaluation. Nuclear Data Sheets, 2007, 108, 2655-2715.	0.7	630
49	Extension of the EMPIRE code to the resonance region. , 2007, , .		2
50	Deformation dependent TUL multi-step direct model. , 2007, , .		1
51	Evaluation of tungsten isotopes in the fast neutron range including cross section covariance estimation. , 2007, , .		2
52	Modeling and Neutron-Induced Fission Cross Sections for Americium. Nuclear Science and Engineering, 2006, 154, 280-293.	0.5	3
53	New evaluation of (n, ⁿ p) and (n, ⁿ t) cross sections for the ENDF/B-VII library. Fusion Engineering and Design, 2006, 81, 2109-2113.	1.0	5
54	ENDF/B-VII.0: Next Generation Evaluated Nuclear Data Library for Nuclear Science and Technology. Nuclear Data Sheets, 2006, 107, 2931-3060.	0.7	1,766

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55	Nuclear reaction and structure data services of the National Nuclear Data Center. <i>Annals of Nuclear Energy</i> , 2006, 33, 390-399.	0.9	29
56	Pre-equilibrium reactions on the stable tungsten isotopes at low energy. <i>Nuclear Physics A</i> , 2006, 765, 1-28.	0.6	28
57	Fission of light actinides:Th232(n,f) andPa231(n,f) reactions. <i>Physical Review C</i> , 2006, 74, .	1.1	70
58	Neutron Cross-Section Evaluations for 70,72,73,74,76Ge. <i>AIP Conference Proceedings</i> , 2005, , .	0.3	2
59	Review of Neutron Cross-Section Evaluations for Fission Products. <i>AIP Conference Proceedings</i> , 2005, , .	0.3	1
60	Recent Developments of the Nuclear Reaction Model Code EMPIRE. <i>AIP Conference Proceedings</i> , 2005, , .	0.3	19
61	R1PL-2: Reference Input Parameter Library for Nuclear Reaction Model Calculations. <i>AIP Conference Proceedings</i> , 2005, , .	0.3	0
62	Validation of Monte Carlo Pre-Equilibrium Model (HMS). <i>AIP Conference Proceedings</i> , 2005, , .	0.3	1
63	Improvement of the Fission Channel in the EMPIRE Code. <i>AIP Conference Proceedings</i> , 2005, , .	0.3	1
64	Assessment of Approximate Methods for Width Fluctuation Corrections. <i>AIP Conference Proceedings</i> , 2005, , .	0.3	6
65	Sensitivity of Activation Cross Sections of Tungsten to Nuclear Reaction Mechanisms. <i>AIP Conference Proceedings</i> , 2005, , .	0.3	0
66	Stellar Neutron Capture on Promethium: Implications for the s-process Neutron Density. <i>Astrophysical Journal</i> , 2003, 582, 1251-1262.	1.6	62
67	Semi-empirical determination of the shell correction temperature and spin dependence by means of nuclear fission. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 1994, 20, 365-376.	1.4	99
68	Gamma emission in precompound reactions. II. Numerical application. <i>Physical Review C</i> , 1992, 46, 2493-2500.	1.1	9
69	Angular momentum effects in heavy-ion-induced fission. <i>Physical Review C</i> , 1992, 46, 1437-1444.	1.1	32
70	Multistep-compound contribution to precompound reaction cross section. <i>Nuclear Physics A</i> , 1992, 536, 124-140.	0.6	35
71	Eigenvalue spacings of the shell-model Hamiltonian. <i>Physical Review C</i> , 1989, 40, 2870-2876.	1.1	7
72	Effect of nuclear deformation on few-quasiparticle state densities. <i>Physical Review C</i> , 1988, 37, 797-804.	1.1	17

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73	Realistic few-quasiparticle level densities in spherical nuclei. <i>Physical Review C</i> , 1987, 36, 1546-1564.	1.1	21
74	Codes for the combinatorial calculation of few quasiparticle state densities in spherical and deformed nuclei. <i>Computer Physics Communications</i> , 1987, 47, 103-111.	3.0	6
75	Particle-hole state densities for calculation of the multi-step compound emission. <i>Nuclear Physics A</i> , 1985, 435, 67-76.	0.6	33
76	The cross sections of the (n, 2n) reactions on ^{134}Ba , ^{142}Nd , ^{150}Nd and ^{144}Sm . <i>Journal of Physics G: Nuclear Physics</i> , 1984, 10, 91-100.	0.8	12
77	A program for calculation of spectra and cross sections within the combined pre-equilibrium/compound nucleus model of nuclear reactions. <i>Computer Physics Communications</i> , 1984, 33, 373-398.	3.0	32
78	Hauser-Feshbach calculations in the presence of weakly absorbing channels with special reference to the elastic enhancement factor and the factorization assumption. <i>Zeitschrift für Physik A</i> , 1980, 297, 153-160.	1.4	56