

Karl-Heinz Schmidt

List of Publications by Year in descending order

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Version: 2024-02-01

45
papers

2,309
citations

236925

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46
all docs

46
docs citations

46
times ranked

973
citing authors

#	ARTICLE	IF	CITATIONS
1	Evidence for the general dominance of proton shells in low-energy fission. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2022, 825, 136859.	4.1	18
2	Extensive Study of the Quality of Fission Yields from Experiment, Evaluation and GEF for Antineutrino Studies and Applications. Nuclear Data Sheets, 2021, 173, 54-117.	2.2	4
3	Experimental Evidence for Common Driving Effects in Low-Energy Fission from Sublead to Actinides. Physical Review Letters, 2021, 126, 132502.	7.8	16
4	Structural effects in the production of neutrons, gammas and anti-neutrinos in fission. EPJ Web of Conferences, 2021, 256, 00015.	0.3	0
5	The GEF model: Assessment of fission-fragment properties over an extended region. EPJ Web of Conferences, 2018, 169, 00022.	0.3	4
6	Nuclear fission: a review of experimental advances and phenomenology. Reports on Progress in Physics, 2018, 81, 016301.	20.1	135
7	Mass distributions of fission fragments from nuclei populated by multinucleon transfer or incomplete fusion channels in $^6\text{Li} + ^{238}\text{U}$ reactions. Physical Review C, 2018, 98, 014607.	2.9	13
8	Benchmark of the GEF code for fission-fragment yields over an enlarged range in fissioning nucleus mass, excitation energy, and angular momentum. Physical Review C, 2018, 98, .	2.9	11
9	Review on the progress in nuclear fission experimental methods and theoretical descriptions. Reports on Progress in Physics, 2018, 81, 106301.	20.1	121
10	Accurate isotopic fission yields of electromagnetically induced fission of ^{238}U measured in inverse kinematics at relativistic energies. Physical Review C, 2017, 95, .	2.9	49
11	General description of fission observables: The GEF code. EPJ Web of Conferences, 2017, 146, 04001.	0.3	3
12	Measurements of the effective cumulative fission yields of ^{143}Nd , ^{145}Nd , ^{146}Nd , ^{148}Nd and ^{150}Nd for ^{235}U in the PHENIX fast reactor. EPJ Nuclear Sciences & Technologies, 2016, 2, 32.	0.7	4
13	General Description of Fission Observables: GEF Model Code. Nuclear Data Sheets, 2016, 131, 107-221.	2.2	341
14	Characterization of the scission point from fission-fragment velocities. Physical Review C, 2015, 92, .	2.9	55
15	A Sample of the Results of the First SOFIA Experiment. Physics Procedia, 2015, 64, 101-106.	1.2	7
16	Studies on fission with ALADIN. European Physical Journal A, 2015, 51, 1.	2.5	26
17	Revealing hidden regularities with a general approach to fission. European Physical Journal A, 2015, 51, 1.	2.5	9
18	Influence of complete energy sorting on the characteristics of the odd-even effect in fission-fragment element distributions. Journal of Physics G: Nuclear and Particle Physics, 2015, 42, 055101.	3.6	27

#	ARTICLE	IF	CITATIONS
19	Origin of odd-even staggering in fragment yields: Impact of nuclear pairing and shell structure on the particle-emission threshold energy. <i>Physical Review C</i> , 2014, 89, .	2.9	22
20	Transfer reactions in inverse kinematics: An experimental approach for fission investigations. <i>Physical Review C</i> , 2014, 89, .	2.9	48
21	SPACS: A semi-empirical parameterization for isotopic spallation cross sections. <i>Physical Review C</i> , 2014, 90, .	2.9	32
22	Isotopic yield distributions of transfer- and fusion-induced fission from ^{238}U C reactions in inverse kinematics. <i>Physical Review C</i> , 2013, 88, .	2.9	66
23	Even-odd Effect in Fission-fragment Z Yields - A New Kind of Nuclear Clock. <i>Physics Procedia</i> , 2013, 47, 88-95.	1.2	2
24	The SOFIA Experiment. <i>Physics Procedia</i> , 2013, 47, 166-171.	1.2	26
25	Hidden systematics of fission channels. <i>EPJ Web of Conferences</i> , 2013, 62, 06001.	0.3	3
26	Inconsistencies in the description of pairing effects in nuclear level densities. <i>Physical Review C</i> , 2012, 86, .	2.9	21
27	Global view on fission observables – new insights and new puzzles. <i>Physics Procedia</i> , 2012, 31, 147-157.	1.2	22
28	Final excitation energy of fission fragments. <i>Physical Review C</i> , 2011, 83, .	2.9	54
29	Thermodynamics of nuclei in thermal contact. <i>Physical Review C</i> , 2011, 83, .	2.9	35
30	Evidence for the predominant influence of the asymmetry degree of freedom on the even-odd structure in fission-fragment yields. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2011, 38, 035101.	3.6	32
31	Fission-fragment and neutron data traced back to the macroscopic and microscopic properties of the fissioning systems. <i>EPJ Web of Conferences</i> , 2010, 8, 03002.	0.3	4
32	Entropy Driven Excitation Energy Sorting in Superfluid Fission Dynamics. <i>Physical Review Letters</i> , 2010, 104, 212501.	7.8	94
33	Nuclear-fission studies with relativistic secondary beams: Analysis of fission channels. <i>Nuclear Physics A</i> , 2008, 802, 12-25.	1.5	72
34	On the topographical properties of fission barriers. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2008, 35, 035104.	3.6	19
35	Experimental evidence for the separability of compound-nucleus and fragment properties in fission. <i>Europhysics Letters</i> , 2008, 83, 32001.	2.0	31
36	Assessment of saddle-point-mass predictions for astrophysical applications. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2006, 634, 362-367.	4.1	8

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37	Conditions for the manifestation of transient effects in fission. Nuclear Physics A, 2005, 757, 329-348.	1.5	20
38	Complex nuclear-structure phenomena revealed from the nuclide production in fragmentation reactions. Nuclear Physics A, 2004, 733, 299-318.	1.5	83
39	Relativistic radioactive beams: A new access to nuclear-fission studies. Nuclear Physics A, 2000, 665, 221-267.	1.5	303
40	Pair breaking and even-odd structure in fission-fragment yields. Nuclear Physics A, 2000, 678, 215-234.	1.5	42
41	Odd-even effects observed in the fission of nuclei with unpaired protons. Nuclear Physics A, 1998, 634, 89-111.	1.5	49
42	Shell effects in the symmetric-modal fission of pre-actinide nuclei. Nuclear Physics A, 1998, 640, 375-388.	1.5	54
43	Shell effects in the properties of the heaviest nuclei. Nuclear Physics A, 1989, 491, 267-280.	1.5	80
44	Empirical saddle-point and ground-state masses as a probe of the droplet model. Nuclear Physics A, 1982, 376, 94-130.	1.5	83
45	Nuclear charge and mass yields for $^{235}\text{U}(n, f)$ as a function of the kinetic energy of the fission products. Nuclear Physics A, 1980, 345, 34-71.	1.5	160