

Karl-Heinz Schmidt

List of Publications by Year in descending order

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45
papers

2,309
citations

236925

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243625

44
g-index

46
all docs

46
docs citations

46
times ranked

973
citing authors

#	ARTICLE	IF	CITATIONS
1	General Description of Fission Observables: GEF Model Code. Nuclear Data Sheets, 2016, 131, 107-221.	2.2	341
2	Relativistic radioactive beams: A new access to nuclear-fission studies. Nuclear Physics A, 2000, 665, 221-267.	1.5	303
3	Nuclear charge and mass yields for ^{235}U (nth, f) as a function of the kinetic energy of the fission products. Nuclear Physics A, 1980, 345, 34-71.	1.5	160
4	Nuclear fission: a review of experimental advances and phenomenology. Reports on Progress in Physics, 2018, 81, 016301.	20.1	135
5	Review on the progress in nuclear fission experimental methods and theoretical descriptions. Reports on Progress in Physics, 2018, 81, 106301.	20.1	121
6	Entropy Driven Excitation Energy Sorting in Superfluid Fission Dynamics. Physical Review Letters, 2010, 104, 212501.	7.8	94
7	Empirical saddle-point and ground-state masses as a probe of the droplet model. Nuclear Physics A, 1982, 376, 94-130.	1.5	83
8	Complex nuclear-structure phenomena revealed from the nuclide production in fragmentation reactions. Nuclear Physics A, 2004, 733, 299-318.	1.5	83
9	Shell effects in the properties of the heaviest nuclei. Nuclear Physics A, 1989, 491, 267-280.	1.5	80
10	Nuclear-fission studies with relativistic secondary beams: Analysis of fission channels. Nuclear Physics A, 2008, 802, 12-25.	1.5	72
11	Isotopic yield distributions of transfer- and fusion-induced fission from $^{238}\text{U} + ^{12}\text{C}$ reactions in inverse kinematics. Physical Review C, 2013, 88, .	2.9	66
12	Characterization of the scission point from fission-fragment velocities. Physical Review C, 2015, 92, .	2.9	55
13	Shell effects in the symmetric-modal fission of pre-actinide nuclei. Nuclear Physics A, 1998, 640, 375-388.	1.5	54
14	Final excitation energy of fission fragments. Physical Review C, 2011, 83, .	2.9	54
15	Odd-even effects observed in the fission of nuclei with unpaired protons. Nuclear Physics A, 1998, 634, 89-111.	1.5	49
16	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
17	Transfer reactions in inverse kinematics: An experimental approach for fission investigations. Physical Review C, 2014, 89, .	2.9	48
18	Pair breaking and even-odd structure in fission-fragment yields. Nuclear Physics A, 2000, 678, 215-234.	1.5	42

#	ARTICLE	IF	CITATIONS
19	Thermodynamics of nuclei in thermal contact. <i>Physical Review C</i> , 2011, 83, .	2.9	35
20	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
21	SPACS: A semi-empirical parameterization for isotopic spallation cross sections. <i>Physical Review C</i> , 2014, 90, .	2.9	32
22	Experimental evidence for the separability of compound-nucleus and fragment properties in fission. <i>Europhysics Letters</i> , 2008, 83, 32001.	2.0	31
23	Influence of complete energy sorting on the characteristics of the odd-even effect in fission-fragment element distributions. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2015, 42, 055101.	3.6	27
24	The SOFIA Experiment. <i>Physics Procedia</i> , 2013, 47, 166-171.	1.2	26
25	Studies on fission with ALADIN. <i>European Physical Journal A</i> , 2015, 51, 1.	2.5	26
26	Global view on fission observables – new insights and new puzzles. <i>Physics Procedia</i> , 2012, 31, 147-157.	1.2	22
27	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
28	Inconsistencies in the description of pairing effects in nuclear level densities. <i>Physical Review C</i> , 2012, 86, .	2.9	21
29	Conditions for the manifestation of transient effects in fission. <i>Nuclear Physics A</i> , 2005, 757, 329-348.	1.5	20
30	On the topographical properties of fission barriers. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2008, 35, 035104.	3.6	19
31	Evidence for the general dominance of proton shells in low-energy fission. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2022, 825, 136859.	4.1	18
32	Experimental Evidence for Common Driving Effects in Low-Energy Fission from Sublead to Actinides. <i>Physical Review Letters</i> , 2021, 126, 132502.	7.8	16
33	Microscopic description of the structure of nuclei populated by multinucleon transfer or incomplete fusion channels in ^6Li	2.9	13
34	Benchmark of the GEF code for fission-fragment yields over an enlarged range in fissioning nucleus mass, excitation energy, and angular momentum. <i>Physical Review C</i> , 2018, 98, .	2.9	11
35	Revealing hidden regularities with a general approach to fission. <i>European Physical Journal A</i> , 2015, 51, 1.	2.5	9
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	A Sample of the Results of the First SOFIA Experiment. Physics Procedia, 2015, 64, 101-106.	1.2	7
38	Fission-fragment and neutron data traced back to the macroscopic and microscopic properties of the fissioning systems. EPJ Web of Conferences, 2010, 8, 03002.	0.3	4
39	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
40	The GEF model: Assessment of fission-fragment properties over an extended region. EPJ Web of Conferences, 2018, 169, 00022.	0.3	4
41	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
42	Hidden systematics of fission channels. EPJ Web of Conferences, 2013, 62, 06001.	0.3	3
43	General description of fission observables: The GEF code. EPJ Web of Conferences, 2017, 146, 04001.	0.3	3
44	Even-odd Effect in Fission-fragment Z Yields - A New Kind of Nuclear Clock. Physics Procedia, 2013, 47, 88-95.	1.2	2
45	Structural effects in the production of neutrons, gammas and anti-neutrinos in fission. EPJ Web of Conferences, 2021, 256, 00015.	0.3	0