Michal Kowal

List of Publications by Year
in descending order

47 papers	1,019 citations	516710 16 h-index	414414 32 g-index
47 all docs	47 docs citations	47 times ranked	393 citing authors

#	Article	IF	Citations
1	Fission barriers for even-even superheavy nuclei. Physical Review C, 2010, 82, .	2.9	135
2	Predictions of the fusion-by-diffusion model for the synthesis cross sections of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>Z</mml:mi><mml:mo>=</mml:mo><mml:mn>114</mml:mn></mml:mrow></mml:math>â€“120 elements based on macroscopic-microscopic fission barriers. Physical Review C, 2012, 86, .	2.9	100
3	Fission barriers and probabilities of spontaneous fission for elements with Zâ‰¥ 100. Nuclear Physics A, 2015, 944, 442-470.	1.5	92
4	Global properties of even-even superheavy nuclei in macroscopic-microscopic models. Physical Review C, 2005, 72, .	2.9	72
5	Light-particle emission from the fissioning nuclei 126 Ba, 188 Pt and 266,272,278 110: theoretical predictions and experimental results. Nuclear Physics A, 2000, 679, 25-53.	1.5	71
6	Adiabatic fission barriers in superheavy nuclei. Physical Review C, 2017, 95, .	2.9	51
7	Secondary fission barriers in even-even actinide nuclei. Physical Review C, 2012, 85, .	2.9	48
8	Eight-dimensional calculations of the third barrier in232Th. Physical Review C, 2013, 87, .	2.9	40
9	QÎ±values in superheavy nuclei from the deformed Woods-Saxon model. Physical Review C, 2014, 89, .	2.9	38
10	Examination of the existence of third, hyperdeformed minima in actinide nuclei. Physical Review C, 2012, 85, .	2.9	37
11	Properties of heaviest nuclei with <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e110931" altimg="si7.svg"><mml:mrow><mml:mn>98</mml:mn><mml:mo linebreak="goodbreak" linebreakstyle="after">â‰¤</mml:mo><mml:mi>Z</mml:mi><mml:mo linebreak="goodbreak" linebreakstyle="after">â‰¤</mml:mo><mml:mn>126</mml:mn></mml:mrow></mml:math> and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e110945" altimg="si8.svg"><m	2.4	35
12	Superdeformed oblate superheavy nuclei. Physical Review C, 2011, 83, .	2.9	32
13	Exploring the production of new superheavy nuclei with proton and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>Î±</mml:mi></mml:math> -particle evaporation channels. Physical Review C, 2019, 99, .	2.9	26
14	Static fission properties of actinide nuclei. Physical Review C, 2020, 101, .	2.9	26
15	Calculations of the cross sections for the synthesis of new<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mrow /><mml:mrow><mml:mn>293</mml:mn><mml:mo>â€“</mml:mo><mml:mn>296</mml:mn></mml:mrow></mml:msup></mml:math> isotopes in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mrow		

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19	EFFECT OF NON-AXIAL DEFORMATIONS ON THE FISSION BARRIER OF HEAVY AND SUPERHEAVY NUCLEI. International Journal of Modern Physics E, 2009, 18, 914-918.	1.0	14
20	Possibilities of direct production of superheavy nuclei with Z=112â€“118 in different evaporation channels. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 809, 135760.	4.1	14
21	Multi-dimensional fission barriers for heavy and superheavy nuclei. Physica Scripta, 2006, T125, 68-72.	2.5	12
22	Level-density parameters in superheavy nuclei. Physical Review C, 2021, 103, .	2.9	11
23	Hindered <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>Î±</mml:mi></mml:math> decays of heaviest high- <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>K</mml:mi></mml:math> isomers. Physical Review C, 2018, 98, .	2.9	9
24	EFFECT OF NON-AXIAL DEFORMATIONS OF HIGHER MULTIPOLARITY ON THE FISSION-BARRIER HEIGHT OF HEAVIEST NUCLEI. International Journal of Modern Physics E, 2010, 19, 493-499.	1.0	8
25	Search for octupole correlations inNd147. Physical Review C, 2015, 92, .	2.9	8
26	Fission of SHN and Its Hindrance: Odd Nuclei and Isomers. Acta Physica Polonica B, 2018, 49, 621.	0.8	8
27	Rate of decline of the production cross section of superheavy nuclei with <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Z</mml:mi><mml:mo>=</mml:mo><mml:mn>114</mml:mn> at high excitation energies. Physical Review C, 2021, 103, .	2.9	7
28	NON-AXIAL OCTUPOLE DEFORMATION OF A HEAVY NUCLEUS. International Journal of Modern Physics E, 2009, 18, 1088-1093.	1.0	5
29	DESCRIPTION OF EXPERIMENTAL FISSION BARRIERS OF HEAVY NUCLEI. International Journal of Modern Physics E, 2009, 18, 869-872.	1.0	5
30	PROPERTIES OF SUPERHEAVY NUCLEI IN VARIOUS MACROSCOPIC-MICROSCOPIC MODELS. International Journal of Modern Physics E, 2005, 14, 365-372.	1.0	4
31	TEST OF TETRAHEDRAL SYMMETRY FOR HEAVY AND SUPERHEAVY NUCLEI. International Journal of Modern Physics E, 2011, 20, 514-519.	1.0	4
32	Calculations of synthesis cross sections ofZ= 104â€“113 superheavy nuclei in the fusion-by-diffusion model with the Warsaw macroâ€“micro-model fission barriers. Physica Scripta, 2013, T154, 014005.	2.5	4
33	Energy dependent ratios of level-density parameters in superheavy nuclei. Physical Review C, 2022, 105, .	2.9	4
34	ROLE OF HIGHER-MULTIPOLARITY DEFORMATIONS IN THE POTENTIAL ENERGY OF HEAVIEST NUCLEI. International Journal of Modern Physics E, 2007, 16, 425-430.	1.0	3
35	SADDLE-POINT SHELL EFFECTS OF HEAVIEST NUCLEI. International Journal of Modern Physics E, 2008, 17, 259-264.	1.0	3
36	COMPETING MINIMA AND NON-AXIAL SADDLES IN SUPERHEAVY NUCLEI. International Journal of Modern Physics E, 2010, 19, 508-513.	1.0	3

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37	ROLE OF THE NON-AXIAL OCTUPOLE DEFORMATION IN THE POTENTIAL ENERGY OF HEAVY NUCLEI. International Journal of Modern Physics E, 2010, 19, 768-773.	1.0	3
38	First observation of high-K isomeric states in ^{249}Md and ^{251}Md. European Physical Journal A, 2021, 57, 1.	2.5	3
39	Diffusion as a possible mechanism controlling the production of superheavy nuclei in cold fusion reactions. Physical Review C, 2022, 105, .	2.9	3
40	IMPORTANCE OF DEFORMATION AND ORIENTATION OF NUCLEAR SHAPES FOR THE SYNTHESIS OF SUPER-HEAVY ELEMENTS. International Journal of Modern Physics E, 2004, 13, 361-366.	1.0	2
41	INFLUENCE OF THE ENTRANCE CHANNEL EFFECTS ON THE FORMATION PROCESS OF SUPERHEAVY ELEMENTS. International Journal of Modern Physics E, 2005, 14, 327-332.	1.0	2
42	TEST OF APPROXIMATION USED IN DESCRIPTION OF NON-AXIAL HEXADECAPOLE SHAPES OF HEAVIEST NUCLEI. International Journal of Modern Physics E, 2007, 16, 402-409.	1.0	2
43	DEFORMATIONS OF MULTIPOLARITY SIX AT THE SADDLE POINT OF HEAVIEST NUCLEI. International Journal of Modern Physics E, 2008, 17, 265-271.	1.0	2
44	SADDLE-POINT SHAPES OF HEAVY AND SUPERHEAVY NUCLEI. International Journal of Modern Physics E, 2008, 17, 168-176.	1.0	2
45	PROPERTIES OF HEAVIEST NUCLEI AT THE SADDLE-POINT CONFIGURATION. International Journal of Modern Physics E, 2010, 19, 1055-1063.	1.0	1
46	Fusion-fission probabilities, cross sections, and structure notes of superheavy nuclei. EPJ Web of Conferences, 2016, 131, 04005.	0.3	1
47	FISSION BARRIERS OF HEAVIEST NUCLEI. , 2008, , .		0