Lubos Krupa

List of Publications by Year
in descending order

76 papers	927 citations	623734 14 h-index	454955 30 g-index
79 all docs	79 docs citations	79 times ranked	590 citing authors

#	Article	IF	Citations
1	Shell effects in fission and quasi-fission of heavy and superheavy nuclei. Nuclear Physics A, 2004, 734, 136-147.	1.5	132
2	Fission and quasifission modes in heavy-ion-induced reactions leading to the formation of Hs<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msup><mml:mrow /><mml:mrow><mml:mo>*</mml:mo></mml:mrow></mml:msup></mml:mrow></mml:math>. Physical Review C, 2011, 83, .	2.9	92
3	Investigation of the reaction 64Ni+238U being an option of synthesizing element 120. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2010, 686, 227-232.	4.1	77
4	The processes of fusion-fission and quasi-fission of superheavy nuclei. Nuclear Physics A, 2007, 787, 150-159.	1.5	75
5	The CORSET time-of-flight spectrometer for measuring binary products of nuclear reactions. Instruments and Experimental Techniques, 2008, 51, 44-58.	0.5	75
6	The fusionâ€“fission and quasi-fission processes in the reaction 48Ca + 208Pb at energies near the Coulomb barrier. Nuclear Physics A, 2008, 802, 45-66.	1.5	60
7	Fusion-fission and quasifission of superheavy systems 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>110</mml:mn></mml:mrow></mml:math> in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi mathvariant="normal">Ca</mml:mi><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>48</mml:mn></mml:mrow></mml:mmultiscripts></mml:math>-induced reactions. Physical Review C, 2014, 90, .	2.9	51
8	Fusion-fission of Superheavy Nuclei. Journal of Nuclear and Radiochemical Sciences, 2002, 3, 57-61.	0.7	36
9	Fission fragment properties obtained in the Î³ - Î³ - Î³ coincidence method in the reaction 208Pb(18O, f). European Physical Journal A, 2007, 34, 23-28.	2.5	36
10	Ternary fission ofCf252:3368keVÎ³radiation fromBe10fragments. Physical Review C, 2004, 69, .	2.9	22
11	Decomposition of continuum Î³-ray spectra using synthesized response matrix. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2004, 516, 172-183.	1.6	21
12	What can one learn about lithium breakup from the fission reaction of 232Th(6Li,â€‰f) at energies around the Coulomb barrier?. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2006, 640, 23-27.	4.1	20
13	New data on the ternary fission of 252Cf from the Gammasphere facility. Physics of Atomic Nuclei, 2004, 67, 1860-1865.	0.4	15
14	Fission dynamics in the proton induced fission of heavy nuclei. Nuclear Physics A, 2004, 734, 253-256.	1.5	15
15	Cross-section measurements for ^{58,60,61}Ni(n, Î±)^{55,57,58}Fe reactions in the 4.50 â€“ 5.50 MeV neutron energy region *. Chinese Physics C, 2020, 44, 114102.	3.7	13
16	Binary and ternary fission studies with 252Cf. Progress in Particle and Nuclear Physics, 2001, 46, 221-229.	14.4	12
17	THE PROCESS OF FUSION-FISSION OF SUPERHEAVY NUCLEI. International Journal of Modern Physics E, 2007, 16, 957-968.	1.0	12
18	Cross sections of theFe56(n,Î±)Cr53andFe54(n,Î±)Cr51reactions in the MeV region. Physical Review C, 2015, 92, .	2.9	12

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19	Cold and hot binary and ternary fission yields in the spontaneous fission of 252Cf. Physics of Atomic Nuclei, 2002, 65, 645-652.	0.4	10
20	MASHA separator on the heavy ion beam for determining masses and nuclear physical properties of isotopes of heavy and superheavy elements. Instruments and Experimental Techniques, 2014, 57, 386-393.	0.5	10
21	New systematic features in the neutron-deficient Au isotopes. Journal of Physics G: Nuclear and Particle Physics, 2017, 44, 074003.	3.6	10
22	5Heternary fission yields of252Cfand235U(n,f). Physical Review C, 2000, 61, .	2.9	9
23	Angular momenta of fission fragments in the Î±-accompanied fission of 252Cf. European Physical Journal A, 2005, 24, 373-378.	2.5	8
24	The Peculiarities of the Production and Decay of Superheavy Nuclei. AIP Conference Proceedings, 2006, , .	0.4	8
25	Gamma-ray multiplicity distribution in ternary fission of252Cf. Journal of Physics G: Nuclear and Particle Physics, 2002, 28, 2893-2905.	3.6	7
26	Analysis of coincidence Î³-ray spectra using advanced background elimination, unfolding and fitting algorithms. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2003, 502, 784-786.	1.6	7
27	Study of Fitting Algorithms Applied to Simultaneous Analysis of Large Numbers of Peaks in Î³-ray Spectra. Applied Spectroscopy, 2003, 57, 753-760.	2.2	7
28	Capture and dissipation in the superheavy region. Nuclear Physics A, 2004, 734, 184-187.	1.5	7
29	On optical transition radiation of charged particles in SiO2-aerogels. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1997, 384, 387-402.	1.6	6
30	Fusion-fission of heavy and superheavy nuclei. Physics of Atomic Nuclei, 2003, 66, 1118-1124.	0.4	6
31	Efficient fitting algorithms applied to analysis of coincidence Î³-ray spectra. Computer Physics Communications, 2005, 172, 19-41.	7.5	5
32	Bimodal fission in binary and ternary spontaneous fission of 252Cf. Physics of Atomic Nuclei, 2006, 69, 1161-1167.	0.4	5
33	Differential and angle-integrated cross sections for the 40Ca(n, Î±)37Ar reaction from 4.0 to 6.5 MeV. European Physical Journal A, 2015, 51, 1.	2.5	5
34	The current status of the MASHA setup. Hyperfine Interactions, 2017, 238, 1.	0.5	5
35	Fission Dynamics in the Proton Induced Fission of Actinide Nuclei at Intermediate Energies. AIP Conference Proceedings, 2006, , .	0.4	4
36	Cross section of the 232Th(n, f) reaction in the MeV neutron energy region. European Physical Journal A, 2022, 58, 1.	2.5	4

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37	A new beam diagnostic system for the MASHA setup. Physics of Particles and Nuclei Letters, 2016, 13, 586-590.	0.4	3
38	Efficient storing of multidimensional histograms using advanced compression techniques. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2003, 502, 725-727.	1.6	2
39	Shell Effects in Fusionâ€“Fission of Heavy and Superheavy Nuclei. Acta Physica Hungarica A Heavy Ion Physics, 2004, 19, 9-18.	0.4	2
40	Symmetric and asymmetric quasifission modes in reactions with heavy ions. , 2009, , .		2
41	Binary and Ternary Fission Yields of 252Cf. , 2001, , 173-184.		2
42	INVESTIGATION OF NEUTRON AND GAMMA MULTIPLICITIES IN REACTIONS WITH HEAVY IONS LEADING TO THE PRODUCTION OF SUPERHEAVY NUCLEI CLOSE TO THE ISLAND OF STABILITY. , 2002, , .		2
43	Cross-section measurements for the 58,60,61Ni(n, Î±)55,57,58Fe reactions at 8.50, 9.50 and 10.50 MeV neutron energies. Chinese Physics C, 0, , .	3.7	2
44	Evaporation-residue cross sections in complete fusion reactions leading to Hg and Rn isotopes. Physical Review C, 2022, 105, .	2.9	2
45	New achievements in development of multidimensional data acquisition, processing and visualization systemâ€”DAQPROVIS. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2003, 502, 728-730.	1.6	1
46	THE PROCESSES OF FUSION-FISSION AND QUASI-FISSION OF SUPERHEAVY NUCLEI. , 2008, , .		1
47	Neutron Emission in Fission And Quasi-Fission of Hs. , 2010, , .		1
48	CalcTav - Integration of a Spreadsheet and Taverna Workbench. Bioinformatics, 2011, 27, 2618-9.	4.1	1
49	Publisher's Note: Fusion-fission and quasifission of superheavy systems withZ=110â€“116formed inCa48-induced reactions [Phys. Rev. C90, 054608 (2014)]. Physical Review C, 2014, 90, .	2.9	1
50	Separation efficiency of the MASHA facility for short-lived mercury isotopes. Hyperfine Interactions, 2014, 227, 209-221.	0.5	1
51	Data acquisition system for the socal plane detector of the mass separator MASHA. Physics of Particles and Nuclei Letters, 2016, 13, 595-597.	0.4	1
52	GAMMA RAY EMISSION IN FISSION AND QUASIFISSION OF HEAVY AND SUPERHEAVY ELEMENTS. , 2002, , .		1
53	IDENTIFICATION OF EXCITED 10BE CLUSTERS BORN IN TERNARY FISSION OF 252CF. , 2004, , .		1
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55	Fission of nuclei with. , 1998, , .		0
56	Behavior of Nuclear Matter under Extreme Conditions in Fission. Acta Physica Hungarica A Heavy Ion Physics, 2001, 14, 161-168.	0.4	0
57	Identification of Gamma Transitions from He and Be Ternary Fission Fragments. Acta Physica Hungarica A Heavy Ion Physics, 2003, 18, 383-391.	0.4	0
58	Tracking dissipation in capture reactions. Physics of Atomic Nuclei, 2003, 66, 1168-1172.	0.4	0
59	Capture and Fusion-Fission Processes in Heavy Ion Induced Reactions. AIP Conference Proceedings, 2005, , .	0.4	0
60	Experiment aimed at the study of 252Cf binary and ternary fission. Physics of Atomic Nuclei, 2006, 69, 1405-1408.	0.4	0
61	RECENT EXPERIMENTS AT GAMMASPHERE INTENDED TO THE STUDY OF 252CF SPONTANEOUS FISSION. , 2008, , .		0
62	YIELDS OF CORRELATED FRAGMENT PAIRS AND AVERAGE GAMMA-RAY MULTIPLICITIES AND ENERGIES IN ²⁰⁸PB(¹⁸O,F). , 2008, , .		0
63	MANIFESTATION OF AVERAGE Î³-RAY MULTIPLICITY IN THE FISSION MODES OF 252Cf(SF) AND THE PROTON - INDUCED FISSION OF 233Pa, 239Np AND 243Am. , 2008, , .		0
64	DYNAMICS OF CAPTURE QUASIFISSION AND FUSION-FISSION COMPETITION. , 2008, , .		0
65	Possibilities of research for on-line mass separator with heavy ion reactions. Journal of Physics: Conference Series, 2014, 533, 012048.	0.4	0
66	Study of production stability of radon and mercury isotopes in complete fusion reactions at the mass-separator MASHA by â€œsolid hot catcherâ€•technique. AIP Conference Proceedings, 2019, , .	0.4	0
67	Pulse shape analysing system for a gridded ionization chamber. Journal of Instrumentation, 2019, 14, T11005-T11005.	1.2	0
68	Optimizing the Solid-State ISOL Technique for Separating Volatile Products of Complete Fusion Reactions. Bulletin of the Russian Academy of Sciences: Physics, 2020, 84, 430-435.	0.6	0
69	Study of neutron-rich isotopes near N=152 shell closure using Timepix type detectors integrated into the mass separator MASHA. Journal of Instrumentation, 2020, 15, C02008-C02008.	1.2	0
70	COMPETITION BETWEEN FUSION-FISSION AND QUASIFISSION IN HEAVY-ION REACTIONS LEADING TO SUPERHEAVY ELEMENTS. , 2003, , .		0
71	GAMMA-RAY EMISSION FROM FISSION OF HEAVY NUCLEI. , 2003, , .		0
72	Nuclear Fission and Structure Studies with Gammasphere. , 2004, , 523-533.		0

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73	TRACKING DISSIPATION IN CAPTURE REACTIONS IN THE SUPERHEAVY REGION. , 2004, , .		0
74	MASS-ENERGY CHARACTERISTICS OF THE REACTIONS 58Fe+208Pb->266Hs AND 26Mg+248Cm->274Hs AT COULOMB BARRIER. , 2008, , .		0
75	MASS-SPECTROMETRIC METHOD TO STUDY THE PROPERTIES OF HEAVY NUCLEI. , 2013, , .		0
76	OPTIMIZATION OF THE SYSTEM OF SOLID-STATE SEPARATION OF VOLATILE PRODUCTS OF REACTIONS OF COMPLETE FUSION WITH HEAVY IONS. Vestnik MeÅ¾dunarodnogo Universiteta Prirody, ObÅ¡estva I Ä¡eloveka Dubna, 2020, , 13-19.	0.0	0