

Maria Chushnyakova

List of Publications by Year in descending order

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49
papers

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1040056

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#	ARTICLE	IF	CITATIONS
1	Systematic application of the M3Y $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi mathvariant="italic"} \rangle \text{NN} \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$ forces for describing the capture process in heavy-ion collisions involving deformed target nuclei. <i>Physical Review C</i> , 2022, 105, .	2.9	5
2	Numerical modeling of the Brownian motion in a bistable potential at medium friction. <i>Journal of Physics: Conference Series</i> , 2022, 2182, 012090.	0.4	0
3	Detail study of application of the relativistic mean-field effective NN forces for heavy-ion fusion within a dynamical model. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2021, 48, 015101.	3.6	12
4	DFMSPH22: A C-code for the double folding interaction potential of two spherical nuclei. <i>Computer Physics Communications</i> , 2021, 259, 107690.	7.5	7
5	Average lifetimes of a metastable state at low barrier in the overdamped regime. <i>Journal of Physics: Conference Series</i> , 2021, 1791, 012113.	0.4	0
6	Two algorithms for numerical modeling of thermal decay of a metastable state. <i>Journal of Physics: Conference Series</i> , 2021, 1791, 012114.	0.4	0
7	Relativistic Mean-Field Effective Nucleon–Nucleon Forces in the Dynamic Modeling of Heavy Ion Fusion. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2021, 85, 490-495.	0.6	0
8	A New Algorithm for Calculating Proton, Neutron, and Charge Densities in Nuclei: Comparisons to Experimental Data. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2021, 85, 508-516.	0.6	1
9	Reply to Comment on “Detail study of application of the relativistic mean-field effective NN forces for heavy-ion fusion within a dynamical model”. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2021, 48, 088002.	3.6	0
10	A Simple Method for Evaluating the Nucleon Densities of Atomic Nuclei Based on Microscopic Charge Densities. <i>Moscow University Physics Bulletin (English Translation of Vestnik Moskovskogo) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 377 T</i>	0.0	0
11	Modification of the Effective Yukawa-Type Nucleon–Nucleon Interaction for Accelerating Calculations of the Real Part of the Optical Potential. <i>Moscow University Physics Bulletin (English) Tj ETQq1 1 0.784314 rgBT3/Overlock</i>	0.78	0
12	Above-barrier heavy-ion fusion cross-sections using the relativistic mean-field approach: Case of spherical colliding nuclei. <i>Nuclear Physics A</i> , 2020, 994, 121657.	1.5	7
13	Computer simulating of nanoproceses: Thermal jumps over a low barrier in the overdamped regime. <i>Journal of Physics: Conference Series</i> , 2020, 1546, 012115.	0.4	0
14	Testing the energy diffusion approximation for the escape of a Brownian particle from a potential pocket. <i>Chinese Journal of Physics</i> , 2020, 67, 388-397.	3.9	2
15	Thermal decay rates for an asymmetric cusped barrier at strong friction. <i>Journal of Physics: Conference Series</i> , 2020, 1546, 012122.	0.4	0
16	Two ways for numerical solution of the Kramers problem for spatial diffusion over an edge-shaped barrier. <i>Journal of Physics: Conference Series</i> , 2020, 1441, 012135.	0.4	2
17	Accuracy of the analytical escape rate for a cusp barrier in the overdamping regime. <i>Journal of Physics: Conference Series</i> , 2020, 1441, 012181.	0.4	1
18	Fission rate of excited nuclei at variable friction in the energy diffusion regime. <i>Journal of Physics: Conference Series</i> , 2020, 1643, 012077.	0.4	0

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19	Precision Numerical Modeling of the Decay of a Metastable State at High Temperatures. Brazilian Journal of Physics, 2019, 49, 587-593.	1.4	4
20	Two ways for finding the thermal decay rate at weak friction. Journal of Physics: Conference Series, 2019, 1260, 092001.	0.4	1
21	Thermal escape from a trap over the parabolic barrier: Langevin type approach to energy diffusion regime. Journal of Physics: Conference Series, 2019, 1260, 092002.	0.4	4
22	Dimensionless Universal Parameters of the Kramers Problem. Journal of Physics: Conference Series, 2019, 1210, 012052.	0.4	7
23	DFMSPH19: A C-code for the double folding interaction potential of two spherical nuclei. Computer Physics Communications, 2019, 242, 153-155.	7.5	5
24	Thermal Decay of a Metastable State: the Quasistationary Rate and the Mean Lifetime. Journal of Physics: Conference Series, 2019, 1210, 012051.	0.4	0
25	Thermal decay of a metastable state: Influence of rescattering on the quasistationary dynamical rate. Physical Review E, 2018, 97, 032107.	2.1	16
26	DFMDEF18: A C-code for the double folding interaction potential of a spherical nucleus with deformed nucleus. Computer Physics Communications, 2018, 222, 414-417.	7.5	4
27	Applicability of Kramers rate formulas in the energy diffusion regime. Journal of Physics: Conference Series, 2018, 1050, 012029.	0.4	0
28	Comment on "Temperature dependence of nuclear fission time in heavy-ion fusion-fission reactions". Physical Review C, 2018, 98, .	2.9	8
29	The Kramers problem in the energy diffusion regime: transient times. Journal of Physics: Conference Series, 2018, 1050, 012018.	0.4	4
30	Thermal decay rate of a metastable state with two degrees of freedom: Dynamical modelling versus approximate analytical formula. Pramana - Journal of Physics, 2017, 88, 1.	1.8	17
31	Modeling a two-dimensional distorted stochastic harmonic oscillator. , 2017, , .		0
32	Dynamical modeling of fission process: Impact of the collective potential. , 2016, , .		1
33	Post-scission dissipative motion and fission-fragment kinetic energy. Bulletin of the Russian Academy of Sciences: Physics, 2016, 80, 938-941.	0.6	5
34	Systematic comparison of barriers for heavy-ion fusion calculated on the basis of the double-folding model by employing two versions of nucleon-nucleon interaction. Physics of Atomic Nuclei, 2016, 79, 543-548.	0.4	6
35	DFMSPH14: A C-code for the double folding interaction potential of two spherical nuclei. Computer Physics Communications, 2016, 206, 97-102.	7.5	3
36	Describing the heavy-ion above-barrier fusion using the bare potentials resulting from Migdal and M3Y double-folding approaches. Journal of Physics G: Nuclear and Particle Physics, 2016, 43, 045111.	3.6	8

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37	Approximating the spin distributions in capture reactions between spherical nuclei. Nuclear Physics A, 2015, 941, 255-264.	1.5	3
38	Oscillations of the fusion cross-sections in the $^{16}\text{O}+^{16}\text{O}$ reaction. Pramana - Journal of Physics, 2015, 85, 653-665.	1.8	3
39	Quantitative analysis of precise heavy-ion fusion data at above-barrier energies using Skyrme-Hartree-Fock nuclear densities. Physical Review C, 2014, 89, .	2.9	27
40	Dynamical calculations of the above-barrier heavy-ion fusion cross sections using Hartree-Fock nuclear densities with the SKX coefficient set. Physical Review C, 2014, 90, .	2.9	31
41	Retarding friction versus white noise in the description of heavy ion fusion. EPJ Web of Conferences, 2014, 66, 03018.	0.3	1
42	Heavy ion fusion: Possible dynamical solution of the problem of the abnormally large diffuseness of the nucleus-nucleus potential. Physical Review C, 2013, 87, .	2.9	36
43	A C-code for the double folding interaction potential for reactions involving deformed target nuclei. Computer Physics Communications, 2013, 184, 172-182.	7.5	9
44	Memory versus fluctuations in heavy ion fusion. Journal of Physics G: Nuclear and Particle Physics, 2013, 40, 095108.	3.6	14
45	New dissipative non-Markovian model treatment of capture: the need for precise above-barrier cross sections. EPJ Web of Conferences, 2013, 63, 02008.	0.3	2
46	A C-code for the double folding interaction potential of two spherical nuclei. Computer Physics Communications, 2010, 181, 168-182.	7.5	52
47	Disentangling effects of potential shape in the fission rate of heated nuclei. Physical Review C, 2010, 82, .	2.9	31
48	The effect of difference between neutron and proton density distributions on the nuclei fusion barrier in a double folding model. Bulletin of the Russian Academy of Sciences: Physics, 2009, 73, 185-186.	0.6	0
49	Activated decay of a metastable state: transient times for small and large dissipation. Indian Journal of Physics, 0, , 1.	1.8	0