

Nikolai Antonenko

List of Publications by Year in descending order

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1016
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#	ARTICLE	IF	CITATIONS
1	Fusion cross sections for superheavy nuclei in the dinuclear system concept. Nuclear Physics A, 1998, 633, 409-420.	1.5	220
2	EFFECTIVE NUCLEUS-NUCLEUS POTENTIAL FOR CALCULATION OF POTENTIAL ENERGY OF A DINUCLEAR SYSTEM. International Journal of Modern Physics E, 1996, 05, 191-216.	1.0	217
3	Competition between complete fusion and quasi-fission in reactions between massive nuclei. The fusion barrier. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1993, 319, 425-430.	4.1	198
4	Characteristics of quasifission products within the dinuclear system model. Physical Review C, 2003, 68, .	2.9	190
5	Isotopic dependence of fusion cross sections in reactions with heavy nuclei. Nuclear Physics A, 2000, 678, 24-38.	1.5	185
6	Compound nucleus formation in reactions between massive nuclei: Fusion barrier. Physical Review C, 1995, 51, 2635-2645.	2.9	165
7	Treatment of competition between complete fusion and quasifission in collisions of heavy nuclei. Nuclear Physics A, 1997, 627, 361-378.	1.5	153
8	Model of competition between fusion and quasifission in reactions with heavy nuclei. Nuclear Physics A, 1997, 618, 176-198.	1.5	130
9	Cluster interpretation of properties of alternating parity bands in heavy nuclei. Physical Review C, 2003, 67, .	2.9	93
10	Survival probability of superheavy nuclei. Physical Review C, 2002, 65, .	2.9	91
11	Effects of nuclear deformation and neutron transfer in capture processes, and fusion hindrance at deep sub-barrier energies. Physical Review C, 2011, 84, .	2.9	89
12	Production of unknown transactinides in asymmetry-exit-channel quasifission reactions. Physical Review C, 2005, 71, .	2.9	77
13	Cluster interpretation of parity splitting in alternating parity bands. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2002, 526, 322-328.	4.1	68
14	How to extend the chart of nuclides?. European Physical Journal A, 2020, 56, 1.	2.5	68
15	Peculiarities of the sub-barrier fusion with the quantum diffusion approach. European Physical Journal A, 2010, 45, 125-130.	2.5	65
16	Problems in description of fusion of heavy nuclei in the two-center shell model approach. Nuclear Physics A, 1999, 646, 29-52.	1.5	64
17	Analysis of survival probability of superheavy nuclei. Physical Review C, 2000, 62, .	2.9	63
18	Possibility of production of neutron-rich Zn and Ge isotopes in multinucleon transfer reactions at low energies. Physical Review C, 2010, 81, .	2.9	63

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19	Role of neutron transfer in capture processes at sub-barrier energies. <i>Physical Review C</i> , 2012, 85, .	2.9	61
20	Competition between evaporation channels in neutron-deficient nuclei. <i>Physical Review C</i> , 2003, 68, .	2.9	60
21	Isotopic trends in the production of superheavy nuclei in cold fusion reactions. <i>Physical Review C</i> , 2004, 69, .	2.9	60
22	Unexpected isotopic trends in synthesis of superheavy nuclei. <i>Physical Review C</i> , 2004, 69, .	2.9	60
23	High-spin isomers in some of the heaviest nuclei: Spectra, decays, and population. <i>Physical Review C</i> , 2010, 81, .	2.9	59
24	Quasifission process in a transport model for a dinuclear system. <i>Physical Review C</i> , 2001, 64, .	2.9	57
25	Feature of production of new superheavy nuclei in actinide-based complete-fusion reactions. <i>European Physical Journal A</i> , 2009, 41, 235-241.	2.5	57
26	Decay of excited nuclei produced in $Kr^{78,82}+Ca^{40}$ reactions at 5.5 MeV/nucleon. <i>Physical Review C</i> , 2011, 83, .	2.9	57
27	Spectroscopic factors and cluster decay half-lives of heavy nuclei. <i>Physical Review C</i> , 2005, 71, .	2.9	56
28	Relationship between dinuclear systems and nuclei in highly deformed states. <i>Nuclear Physics A</i> , 2000, 671, 119-135.	1.5	55
29	Mass distributions for induced fission of different Hg isotopes. <i>Physical Review C</i> , 2012, 86, .	2.9	55
30	Possibilities of synthesis of new superheavy nuclei in actinide-based fusion reactions. <i>Physical Review C</i> , 2004, 69, .	2.9	54
31	Mass parameters for a dinuclear system. <i>Nuclear Physics A</i> , 1995, 584, 205-220.	1.5	52
32	Influence of proton shell closure on production and identification of new superheavy nuclei. <i>Physical Review C</i> , 2012, 85, .	2.9	52
33	Emission of charged particles from excited compound nuclei. <i>Physical Review C</i> , 2010, 82, .	2.9	51
34	Possible explanation of fine structures in mass-energy distribution of fission fragments. <i>European Physical Journal A</i> , 2004, 22, 51-60.	2.5	50
35	Non-Markovian dynamics of quantum systems. I. Formalism and transport coefficients. <i>Physical Review E</i> , 2005, 71, 016121.	2.1	50
36	Possible alternative parity bands in the heaviest nuclei. <i>Physical Review C</i> , 2006, 74, .	2.9	47

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37	Quantum statistical effects in nuclear reactions, fission, and open quantum systems. Physics of Particles and Nuclei, 2010, 41, 175-229.	0.7	47
38	Towards neutron drip line via transfer-type reactions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2005, 621, 119-125.	4.1	45
39	Isospin dependence of mass-distribution shape of fission fragments of Hg isotopes. Physical Review C, 2013, 88, .	2.9	44
40	Melting or nucleon transfer in fusion of heavy nuclei?. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2000, 481, 228-235.	4.1	42
41	Predicted yields of new neutron-rich isotopes of nuclei with $Z \leq 8$ in the multinucleon transfer reaction $^{64}\text{Ca} + ^{88}\text{Ca} \rightarrow ^{152}\text{Ca} + \dots$	2.9	42
42	One-quasiparticle states in odd- Z heavy nuclei. Physical Review C, 2010, 82, .	2.9	39
43	Ways to produce new superheavy isotopes with $Z = 111-117$ in charged particle evaporation channels. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 764, 42-48.	4.1	39
44	Dynamical restriction for a growing neck due to mass parameters in a dinuclear system. Nuclear Physics A, 2000, 671, 233-254.	1.5	38
45	Capture process in nuclear reactions with a quantum master equation. Physical Review C, 2009, 80, .	2.9	36
46	Role of the entrance channel in the production of complex fragments in fusion-fission and quasifission reactions in the framework of the dinuclear system model. Physical Review C, 2011, 84, .	2.9	36
47	Stability of superheavy nuclei produced in actinide-based complete fusion reactions: Evidence for the next magic proton number at $Z = 120$. Physical Review C, 2009, 79, .	2.9	35
48	Sub-barrier capture with quantum diffusion approach: Actinide-based reactions. European Physical Journal A, 2011, 47, 1.	2.5	35
49	Non-Markovian dynamics of quantum systems. II. Decay rate, capture, and pure states. Physical Review E, 2005, 71, 016122.	2.1	34
50	Application of statistical methods for analysis of heavy-ion reactions in the framework of a dinuclear system model. Physics of Particles and Nuclei, 2009, 40, 847-889.	0.7	34
51	Behavior of one-quasiparticle levels in odd isotonic chains of heavy nuclei. Physical Review C, 2011, 84, .	2.9	34
52	Cluster effects in the structure of the ground state and superdeformed bands of ^{60}Zn . Physical Review C, 2003, 67, .	2.9	33
53	Role of angular momentum in the production of complex fragments in fusion and quasifission reactions. Physical Review C, 2011, 83, .	2.9	33
54	Cluster interpretation of parity doublet rotational bands in odd-mass nuclei. Physical Review C, 2004, 70, .	2.9	32

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55	Quantum Non-Markovian Stochastic Equations. Theoretical and Mathematical Physics(Russian) Tj ETQq1 1 0.784314 rgBT /Overlock 10	0.9	32
56	Possibilities of production of transfermium nuclei in charged-particle evaporation channels. Physical Review C, 2016, 94, .	2.9	32
57	Competition between complete fusion and quasi-fission in dinuclear system. Il Nuovo Cimento A, 1997, 110, 1143-1148.	0.2	31
58	Production of neutron-rich Ca, Sn, and Xe isotopes in transfer-type reactions with radioactive beams. Physical Review C, 2010, 82, .	2.9	31
59	Effect of structural forbiddenness in fusion of heavy nuclei. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1999, 451, 289-295.	4.1	30
60	Role of bending mode in generation of angular momentum of fission fragments. Physical Review C, 2002, 65, .	2.9	30
61	Interaction times in theXe136+Xe136andU238+U238reactions with a quantum master equation. Physical Review C, 2009, 80, .	2.9	30
62	Polarization of the nuclear surface in deformed nuclei. Physical Review C, 2013, 88, .	2.9	30
63	Examination of the different roles of neutron transfer in the sub-barrier fusion reactionsS32+Zr94,96and40Ca+Zr94,96. Physical Review C, 2015, 91, .	2.9	30
64	Possible origin of transition from symmetric to asymmetric fission. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 760, 800-806.	4.1	30
65	Influence of neutron transfer in reactions with weakly and strongly bound nuclei on the sub-barrier capture process. Physical Review C, 2012, 86, .	2.9	29
66	Energy dependence of mass, charge, isotopic, and energy distributions in neutron-induced fission ofU235andPu239. Physical Review C, 2016, 93, .	2.9	29
67	Tunneling with dissipation in open quantum systems. Physics Letters, Section A: General, Atomic and Solid State Physics, 1998, 244, 482-488.	2.1	28
68	Dinuclear system in diabatic two-center shell model approach. Nuclear Physics A, 1999, 652, 61-70.	1.5	28
69	Potential in mass asymmetry and quasifission in a dinuclear system. Nuclear Physics A, 2001, 679, 410-426.	1.5	27
70	Ternary fission within statistical approach. European Physical Journal A, 2006, 30, 579-589.	2.5	27
71	Mechanism of enhanced yield of light particles in compound nucleus formation. Zeitschrift FÄ¼r Physik A, 1991, 339, 453-463.	0.9	26
72	Microscopic driving potential for a dinuclear system. Nuclear Physics A, 1993, 551, 321-332.	1.5	26

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73	Survival probabilities of superheavy nuclei based on recent predictions of nuclear properties. European Physical Journal A, 2005, 23, 249-256.	2.5	26
74	Isotopic trends of capture cross section and mean-square angular momentum of the captured system. Physical Review C, 2012, 85, .	2.9	26
75	Correlation between observed I_{\pm} decays and changes in neutron or proton skins from parent to daughter nuclei. Physical Review C, 2017, 96, .	2.9	26
76	Predictions of identification and production of new superheavy nuclei with $Z < 119$ and 120. Physical Review C, 2020, 101, .	2.9	26
77	Production of neutron-rich Ca isotopes in transfer-type reactions. European Physical Journal A, 2006, 27, 187-190.	2.5	25
78	Fission rate and transient time with a quantum master equation. Physical Review C, 2007, 76, .	2.9	25
79	Neutron-pair transfer in the sub-barrier capture process. Physical Review C, 2013, 88, .	2.9	25
80	Transitions between symmetric and asymmetric modes in the region of heavy actinides. Nuclear Physics A, 2018, 969, 226-236.	1.5	25
81	Self-consistent methods for structure and production of heavy and superheavy nuclei. European Physical Journal A, 2021, 57, 1.	2.5	25
82	Bimodality and charge splitting in fission of actinides. European Physical Journal A, 2005, 26, 327-332.	2.5	24
83	Production cross section of neutron-rich isotopes with radioactive and stable beams. Physical Review C, 2014, 89, .	2.9	24
84	Decay out of superdeformed bands in the mass region $A \approx 190$ within a cluster approach. Physical Review C, 2004, 69, .	2.9	23
85	Alpha-decay fine structures of U isotopes and systematics for isotopic chains of Po and Rn. European Physical Journal A, 2012, 48, 1.	2.5	23
86	Effects of angular dependence of surface diffuseness in deformed nuclei on Coulomb barrier. Physical Review C, 2014, 90, .	2.9	23
87	Influence of entrance channel on the production of hassium isotopes. Physical Review C, 2015, 92, .	2.9	23
88	Search for a systematic behavior of the breakup probability in reactions with weakly bound projectiles at energies around the Coulomb barrier. Physical Review C, 2012, 86, .	2.9	22
89	Toward neutron-rich nuclei via transfer reactions with stable and radioactive beams. Physical Review C, 2015, 91, .	2.9	22
90	Cluster approach to description of fission modes. Nuclear Physics A, 1996, 611, 355-369.	1.5	21

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91	Friction and diffusion coefficients in coordinate in nonequilibrium nuclear processes. Nuclear Physics A, 1999, 645, 376-398.	1.5	21
92	Diffusion coefficients in coordinate in density matrix description of non-equilibrium quantum processes. Physics Letters, Section A: General, Atomic and Solid State Physics, 1999, 260, 39-45.	2.1	21
93	Coordinate-dependent diffusion coefficients: Decay rate in open quantum systems. Physical Review A, 2007, 75, .	2.5	21
94	Influence of external magnetic field on dynamics of open quantum systems. Physical Review E, 2007, 75, 031115.	2.1	21
95	Peculiarities of sub-barrier reactions with heavy ions. Journal of Physics: Conference Series, 2011, 282, 012001.	0.4	21
96	Effect of transport coefficients on the time dependence of a density matrix. Journal of Physics A, 2000, 33, 4265-4276.	1.6	20
97	Non-Markovian dynamics with fermions. Physical Review A, 2014, 90, .	2.5	20
98	Application of the Lindblad axiomatic approach to non-equilibrium nuclear processes. Journal of Physics G: Nuclear and Particle Physics, 1994, 20, 1447-1459.	3.6	19
99	Cluster approach to the structure of ^{240}Pu . Physical Review C, 2015, 92, .	2.9	19
100	Asymmetry of fission fragment mass distribution for Po and Ir isotopes. Physical Review C, 2016, 93, .	2.9	19
101	Sub-barrier capture reactions with ^{16}O and ^{40}Ca beams. European Physical Journal A, 2013, 49, 1.	2.5	18
102	Unexpected asymmetry of the charge distribution in the fission of ^{232}Th and ^{224}Th at high excitation energies. Physical Review C, 2016, 94, .	2.9	18
103	Generalization of Kramers formula for open quantum systems. Physica A: Statistical Mechanics and Its Applications, 2002, 316, 297-313.	2.6	17
104	Sub-barrier capture with quantum diffusion approach. EPJ Web of Conferences, 2011, 17, 04003.	0.3	17
105	Probability of passing through a parabolic barrier and thermal decay rate: Case of linear coupling both in momentum and in coordinate. Physical Review A, 2011, 84, .	2.5	17
106	Deformation effect in the sub-barrier capture process. Physical Review C, 2012, 85, .	2.9	17
107	Oblate-prolate deformation effect in capture reactions at sub-barrier energies. Physical Review C, 2012, 85, .	2.9	17
108	Extraction of potential energy in charge asymmetry coordinate from experimental fission data. European Physical Journal A, 2016, 52, 1.	2.5	17

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109	Estimates of production and structure of nuclei with $Z=119$. Nuclear Physics A, 2018, 970, 22-28.	1.5	17
110	Quantum non-Markovian Langevin formalism for heavy ion reactions near the Coulomb barrier. Physical Review C, 2008, 77, .	2.9	16
111	Possibilities of production of neutron-deficient isotopes of U, Np, Pu, Am, Cm, and Cf in complete fusion reactions. Physical Review C, 2008, 78, .	2.9	16
112	Peculiarities of parabolic-barrier penetrability and thermal decay rate with the quantum diffusion approach. Physical Review A, 2011, 83, .	2.5	16
113	Clusterization in the shape isomers of the ^{56}Ni nucleus. Physical Review C, 2011, 84, .	2.9	16
114	Description of non-Markovian effect in open quantum system with the discretized environment method. European Physical Journal B, 2015, 88, 1.	1.5	16
115	Isotopic trends of nuclear surface properties of spherical nuclei. Physical Review C, 2016, 94, .	2.9	16
116	On the absence of an alpha-nucleus structure in a two-centre shell model. Journal of Physics G: Nuclear and Particle Physics, 1999, 25, L47-L53.	3.6	15
117	Possibility of production of neutron-rich isotopes in transfer-type reactions at intermediate energies. Physical Review C, 2008, 78, .	2.9	15
118	Formation of hyperdeformed states by neutron emission from a dinuclear system. Physical Review C, 2010, 81, .	2.9	15
119	How to observe hyperdeformed states populated in heavy ion reactions. Physical Review C, 2001, 64, .	2.9	14
120	Transfer-type products accompanying cold fusion reactions. Physical Review C, 2005, 72, .	2.9	14
121	Energy-shifting formulae yield reliable reaction and capture probabilities. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 739, 348-351.	4.1	14
122	Charge distributions of fission fragments of low- and high-energy fission of Fm, No, and Rf isotopes. Physical Review C, 2018, 97, .	2.9	14
123	Possibilities of direct production of superheavy nuclei with $Z=112$ – 118 in different evaporation channels. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 809, 135760.	4.1	14
124	Collective enhancements in the level densities of Dy and Mo isotopes. Physical Review C, 2020, 101, .	2.9	14
125	Neck dynamics at the approach stage of heavy ion collisions. Nuclear Physics A, 1997, 619, 241-260.	1.5	13
126	Possibility of production of new superheavy nuclei in complete fusion reactions. Nuclear Physics A, 2010, 834, 345c-348c.	1.5	13

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127	Role of quasiparticle structure in \hat{I}_{\pm} decays of the heaviest nuclei. Physical Review C, 2012, 85, .	2.9	13
128	Derivation of capture cross sections from quasi-elastic excitation functions. Physical Review C, 2013, 87, .	2.9	13
129	Threshold energy for sub-barrier fusion hindrance phenomenon. European Physical Journal A, 2013, 49, 1.	2.5	13
130	Possibilities of synthesis of unknown isotopes of superheavy nuclei with charge numbers $Z > 108$ in asymmetric actinide-based complete fusion reactions. European Physical Journal A, 2016, 52, 1.	2.5	13
131	Change of the shape of mass and charge distributions in fission of Cf isotopes with excitation energy. Physical Review C, 2019, 99, .	2.9	13
132	Possible production of neutron-rich Md isotopes in multinucleon transfer reactions with Cf and Es targets. Physical Review C, 2019, 99, .	2.9	13
133	The microscopic treatment of proton and neutron multiple transfer in DIC. Zeitschrift für Physik A, 1991, 338, 423-430.	0.9	12
134	Light nuclei production in fusion of heavy ions. Physical Review C, 1994, 50, 2063-2068.	2.9	12
135	Spectroscopic factors and barrier penetrabilities in cluster radioactivity. Physics of Atomic Nuclei, 2005, 68, 1443-1452.	0.4	12
136	Impact of nuclear structure on production and identification of new superheavy nuclei. European Physical Journal A, 2011, 47, 1.	2.5	12
137	Production of the doubly magic nucleus Sn100 in fusion and quasifission reactions via light particle and cluster emission channels. Physical Review C, 2014, 90, .	2.9	12
138	Dinuclear systems in complete fusion reactions. Physics of Particles and Nuclei, 2014, 45, 848-923.	0.7	12
139	Nonrotational states in isotonic chains of heavy nuclei. Physical Review C, 2018, 97, .	2.9	12
140	Dynamics of a dinuclear system in charge-asymmetry coordinates; \hat{I}_{\pm} decay, cluster radioactivity, and spontaneous fission. Physical Review C, 2019, 100, .	2.9	12
141	Examination of coexistence of symmetric mass and asymmetric charge distributions of fission fragments. Physical Review C, 2020, 101, .	2.9	12
142	Optimal ways to produce heavy and superheavy nuclei. European Physical Journal A, 2022, 58, .	2.5	12
143	Nontrivial manifestation of clustering in fission of heavy nuclei at low and middle excitations. Physics of Atomic Nuclei, 2004, 67, 1726-1730.	0.4	11
144	Transport coefficients of a quantum system interacting with a squeezed heat bath. Physical Review E, 2006, 74, 011118.	2.1	11

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145	Emission of clusters with $Z > 2$ from excited actinide nuclei. <i>Physical Review C</i> , 2011, 84, .	2.9	11
146	Emission of heavy clusters in nuclear reactions at low collision energies. <i>Physics of Particles and Nuclei</i> , 2012, 43, 825-866.	0.7	11
147	Astrophysical S factor, logarithmic slope of the excitation function, and barrier distribution. <i>Physical Review C</i> , 2012, 86, .	2.9	11
148	Derivation of reaction cross sections from experimental elastic backscattering probabilities. <i>Physical Review C</i> , 2013, 88, .	2.9	11
149	Level densities of heaviest nuclei. <i>European Physical Journal A</i> , 2014, 50, 1.	2.5	11
150	Non-Markovian dynamics of fully coupled fermionic and bosonic oscillators. <i>Physical Review A</i> , 2017, 95, .	2.5	11
151	Incorporating self-consistent single-particle potentials into the microscopic-macroscopic method. <i>European Physical Journal A</i> , 2018, 54, 1.	2.5	11
152	Level-density parameters in superheavy nuclei. <i>Physical Review C</i> , 2021, 103, .	2.9	11
153	Formation of hyperdeformed states in capture reactions at sub-barrier energies. <i>Physical Review C</i> , 2010, 82, .	2.9	10
154	Role of neutron transfer in asymmetric fusion reactions at sub-barrier energies. <i>European Physical Journal A</i> , 2014, 50, 1.	2.5	10
155	Deriving capture and reaction cross sections from observed quasi-elastic and elastic backscattering. <i>Physical Review C</i> , 2014, 90, .	2.9	10
156	Description of alpha decay and cluster radioactivity in the dinuclear system model. <i>Physics of Particles and Nuclei</i> , 2016, 47, 206-235.	0.7	10
157	Possible production of neutron-rich No isotopes. <i>Physical Review C</i> , 2020, 101, .	2.9	10
158	Simultaneous description of charge, mass, total kinetic energy, and neutron multiplicity distributions in fission of Th and U isotopes. <i>Physical Review C</i> , 2021, 104, .	2.9	10
159	CLUSTER FEATURES OF STRONGLY DEFORMED NUCLEI SHAPES. <i>International Journal of Modern Physics E</i> , 2008, 17, 2020-2024.	1.0	9
160	Population of ground-state rotational bands of superheavy nuclei produced in complete fusion reactions. <i>Physical Review C</i> , 2011, 84, .	2.9	9
161	Quantum diffusion description of the subbarrier-capture process in heavy-ion reactions. <i>Physics of Atomic Nuclei</i> , 2012, 75, 439-448.	0.4	9
162	Extracting integrated and differential cross sections in low-energy heavy-ion reactions from backscattering measurements. <i>European Physical Journal A</i> , 2014, 50, 1.	2.5	9

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163	<p>Quasifission and fusion-fission processes in the reactions $\text{Kr} + \text{Ca}$. $\text{Kr} + \text{Ca} \rightarrow \text{Ti} + \text{Fe}$. Comparative analysis of the fusion reactions $\text{Ti} + \text{Fe}$. Capture cross section with quantum diffusion approach. Computer Physics Communications, 2018, 233, 145-155.</p>	2.9	9
164	<p>Mechanism of enhanced yield of light particles in compound nucleus formation: Diffusion description. Zeitschrift für Physik A, 1992, 341, 459-463.</p>	0.9	8
167	Survivability of excited superheavy nuclei. Physics of Atomic Nuclei, 2003, 66, 218-232.	0.4	8
168	Spectroscopic factors within the dinuclear-system model. Physics of Atomic Nuclei, 2008, 71, 1756-1768.	0.4	8
169	Production of exotic isotopes in complete fusion reactions with radioactive beams. Physical Review C, 2013, 88, .	2.9	8
170	From dinuclear systems to close binary stars: Application to mass transfer. International Journal of Modern Physics E, 2018, 27, 1850063.	1.0	8
171	Model of competition between complete fusion and quasi-fission in reactions with massive nuclei. Nuclear Physics A, 1995, 583, 165-168.	1.5	7
172	Process of complete fusion of nuclei within the framework of dinuclear system concept. Il Nuovo Cimento A, 1997, 110, 1127-1135.	0.2	7
173	Towards exotic nuclei via binary reaction mechanism. Physical Review C, 1998, 57, 1832-1838.	2.9	7
174	Description of quasifission reactions in the dinuclear system model. Physics of Particles and Nuclei, 2016, 47, 1-48.	0.7	7
175	Non-Markovian dynamics of mixed fermionic-bosonic systems: Rotating-wave-approximation coupling. Physical Review A, 2017, 96, .	2.5	7
176	Extended quantum diffusion approach to reactions of astrophysical interests. European Physical Journal A, 2020, 56, 1.	2.5	7
177	Rate of decline of the production cross section of superheavy nuclei with $Z \approx 114$ at high excitation energies. Physical Review C, 2021, 103, .	2.9	7
178	Cluster approach to spontaneous fission of even-even isotopes of U, Pu, Cm, Cf, Fm, No, Rf, Sg, and Hs. Physical Review C, 2021, 104, .	2.9	7
179	Constraints on the appearance of a maximum in astrophysical S-factor. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2022, 824, 136792.	4.1	7
180	Fusion and Quasifission within the Dinuclear System Model. Acta Physica Hungarica A Heavy Ion Physics, 2004, 19, 87-94.	0.4	6

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181	Manifestation of cluster effects in the structure of medium mass and heavy nuclei. Nuclear Physics A, 2004, 734, 433-436.	1.5	6
182	Isotopic dependence of neutron emission from dinuclear system. European Physical Journal A, 2007, 33, 223-230.	2.5	6
183	Multiple reflection-asymmetric-type band structures in 220Th and dinuclear model. European Physical Journal A, 2011, 47, 1.	2.5	6
184	Structures of nuclei in α -decay chains of $^{291,293}117$. Physical Review C, 2012, 85, .	2.9	6
185	Quasiparticle structure of superheavy nuclei along the α -decay chain of ^{115}Mn . Physical Review C, 2015, 92, .	2.9	6
186	Role of the neck degree of freedom in cold fusion reactions. Physical Review C, 2015, 91, .	2.9	6
187	Possibilities of production of transfermium nuclei in complete fusion reactions with radioactive beams. Physical Review C, 2017, 96, .	2.9	6
188	Non-Markovian dynamics of mixed fermionic-bosonic systems: Full coupling. Physica A: Statistical Mechanics and Its Applications, 2018, 505, 666-679.	2.6	6
189	Non-Markovian dynamics of fermionic and bosonic systems coupled to several heat baths. Physical Review E, 2018, 97, 032134.	2.1	6
190	Suggestion for examination of a role of multi-chance fission. European Physical Journal A, 2018, 54, 1.	2.5	6
191	Could new isotopes of superheavies with $Z=112-118$ be produced in ^{48}Ca -induced cold fusion reactions?. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 805, 135438.	4.1	6
192	Landscape of the island of stability with self-consistent mean-field potentials. Physical Review C, 2021, 104, .	2.9	6
193	Decay rate with coordinate-dependent diffusion coefficients. Physica A: Statistical Mechanics and Its Applications, 2007, 386, 36-46.	2.6	5
194	Comment on "Ratios of disintegration rates for distinct decay modes of an excited nucleus". Physical Review C, 2010, 81, .	2.9	5
195	Non-Markovian dynamics of an open quantum system with nonstationary coupling. Physical Review E, 2011, 83, 041104.	2.1	5
196	Derivation of breakup probabilities of weakly bound nuclei from experimental elastic and quasi-elastic scattering angular distributions. Physical Review C, 2015, 92, .	2.9	5
197	Application of the theory of open quantum systems to nuclear physics problems. Physics of Particles and Nuclei, 2016, 47, 157-205.	0.7	5
198	Large-amplitude nuclear motion formulated in terms of dissipation of quantum fluctuations. Physics of Particles and Nuclei, 2017, 48, 158-209.	0.7	5

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