

# Nikolai Antonenko

## List of Publications by Year in descending order

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325  
papers

6,363  
citations

71102

41  
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106344

65  
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329  
all docs

329  
docs citations

329  
times ranked

1016  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Spontaneous fission hindrance in even-odd nuclei within a cluster approach. Physical Review C, 2022, 105, .	2.9	4
3	Role of spin-orbit strength in the prediction of closed shells in superheavy nuclei. Physical Review C, 2022, 105, .	2.9	3
4	Energy dependent ratios of level-density parameters in superheavy nuclei. Physical Review C, 2022, 105, .	2.9	4
5	Optimal ways to produce heavy and superheavy nuclei. European Physical Journal A, 2022, 58, .	2.5	12
6	Applicability of the absence of equilibrium in quantum system fully coupled to several fermionic and bosonic heat baths. Physical Review E, 2021, 103, 012137.	2.1	1
7	Self-consistent methods for structure and production of heavy and superheavy nuclei. European Physical Journal A, 2021, 57, 1.	2.5	25
8	Level-density parameters in superheavy nuclei. Physical Review C, 2021, 103, .	2.9	11
9	Rate of decline of the production cross section of superheavy nuclei with $Z > 114$ at high excitation energies. Physical Review C, 2021, 103, .	2.9	14
10	Simultaneous description of charge, mass, total kinetic energy, and neutron multiplicity distributions in fission of Th and U isotopes. Physical Review C, 2021, 104, .	2.9	10
11	Correlations of $\hat{\Gamma}_{\pm}$ -decay properties and isospin-asymmetry. Physical Review C, 2021, 104, .	2.9	5
12	Shaping the archipelago of stability by the competition of proton and neutron shell closures. Physical Review C, 2021, 104, .	2.9	4
13	Application of Regge Theory to Astronomical Objects. Physics, 2021, 3, 669-677.	1.4	0
14	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
15	Orbital diamagnetism of two-dimensional quantum systems in a dissipative environment: Non-Markovian effect and application to graphene. Physical Review E, 2021, 104, 054120.	2.1	1
16	Landscape of the island of stability with self-consistent mean-field potentials. Physical Review C, 2021, 104, .	2.9	6
17	Asymptotic equilibrium in quantum system fully coupled simultaneously to mixed fermionic and bosonic heat baths. Physica A: Statistical Mechanics and Its Applications, 2020, 545, 123653.	2.6	2
18	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

#	ARTICLE	IF	CITATIONS
19	Nucleon density distribution in description of nuclear decays. Nuclear Physics A, 2020, 1002, 121995.	1.5	2
20	Non-Markovian modeling of Fermi-Bose systems coupled to one or several Fermi-Bose thermal baths. Physical Review A, 2020, 102, .	2.5	4
21	Production of neutron deficient isotopes in the multinucleon transfer reaction Ca48(Elab=5.63MeV/nucleon)+Cm248. Physical Review C, 2020, 102, .	2.9	4
22	Examination of coexistence of symmetric mass and asymmetric charge distributions of fission fragments. Physical Review C, 2020, 101, .	2.9	12
23	Collective enhancements in the level densities of Dy and Mo isotopes. Physical Review C, 2020, 101, .	2.9	14
24	Non-Markovian dynamics of quantum systems coupled with several mixed fermionic-bosonic heat baths. Physical Review E, 2020, 101, 062115.	2.1	2
25	From Dinuclear Systems to Close Binary Stars and Galaxies. Physics of Atomic Nuclei, 2020, 83, 60-68.	0.4	2
26	Predictions of identification and production of new superheavy nuclei with $Z=112$ and 120. Physical Review C, 2020, 101, .	2.9	16
27	How to extend the chart of nuclides?. European Physical Journal A, 2020, 56, 1.	2.5	68
28	Extended quantum diffusion approach to reactions of astrophysical interests. European Physical Journal A, 2020, 56, 1.	2.5	7
29	Possible production of neutron-rich No isotopes. Physical Review C, 2020, 101, .	2.9	10
30	Could new isotopes of superheavies with $Z=112$ be produced in 48Ca-induced cold fusion reactions?. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 805, 135438.	4.1	6
31	Effect of the Nucleon-Density Distribution on the Description of Nuclear Decay. Physics of Atomic Nuclei, 2020, 83, 15-23.	0.4	0
32	How Does One Extend the Chart of Nuclides?. Nuclear Physics News, 2020, 30, 22-26.	0.4	1
33	Application of the theory of open quantum systems in nuclear physics. International Journal of Modern Physics Conference Series, 2019, 49, 1960008.	0.7	0
34	Dynamics of a dinuclear system in charge-asymmetry coordinates; $I_{\pm}$ decay, cluster radioactivity, and spontaneous fission. Physical Review C, 2019, 100, .	2.9	12
35	Close Binary Galaxies: Application to Source of Energy and Expansion in Universe. International Journal of Modern Physics E, 2019, 28, 1950031.	1.0	3
36	Origin of the orbital period change in contact binary stars. International Journal of Modern Physics E, 2019, 28, 1950044.	1.0	3

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37	Angular momentum of open quantum systems in external magnetic field. <i>Physical Review A</i> , 2019, 99, .	2.5	4
38	Change of the shape of mass and charge distributions in fission of Cf isotopes with excitation energy. <i>Physical Review C</i> , 2019, 99, .	2.9	13
39	Possible production of neutron-rich Md isotopes in multinucleon transfer reactions with Cf and Es targets. <i>Physical Review C</i> , 2019, 99, .	2.9	13
40	Stability of Macroscopic Binary Systems*. <i>Communications in Theoretical Physics</i> , 2019, 71, 1335.	2.5	3
41	Open quantum system in external magnetic field within non-Markovian quantum Langevin approach. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2019, 514, 957-973.	2.6	3
42	Nonrotational states in isotonic chains of heavy nuclei. <i>Physical Review C</i> , 2018, 97, .	2.9	12
43	Non-Markovian dynamics of mixed fermionicâ€bosonic systems: Full coupling. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2018, 505, 666-679.	2.6	6
44	Light charged particle multiplicities in fusion and quasifission reactions. <i>European Physical Journal A</i> , 2018, 54, 1.	2.5	2
45	Non-Markovian dynamics of fermionic and bosonic systems coupled to several heat baths. <i>Physical Review E</i> , 2018, 97, 032134.	2.1	6
46	Charge distributions of fission fragments of low- and high-energy fission of Fm, No, and Rf isotopes. <i>Physical Review C</i> , 2018, 97, .	2.9	14
47	Transitions between symmetric and asymmetric modes in the region of heavy actinides. <i>Nuclear Physics A</i> , 2018, 969, 226-236.	1.5	25
48	Estimates of production and structure of nuclei with $Z=119$ . <i>Nuclear Physics A</i> , 2018, 970, 22-28.	1.5	17
49	From dinuclear systems to close binary stars: Application to source of energy in the universe. <i>International Journal of Modern Physics E</i> , 2018, 27, 1850093.	1.0	5
50	Dinuclear system model in spontaneous fission process. <i>EPJ Web of Conferences</i> , 2018, 194, 06005.	0.3	0
51	Charge/mass yields in the fission of highly excited heavy actinides. <i>EPJ Web of Conferences</i> , 2018, 194, 06004.	0.3	0
52	Influence of the entrance channel on spins of complex fragments in binary reactions. <i>Nuclear Physics A</i> , 2018, 980, 143-155.	1.5	0
53	Role of the excitation energy of the compound nucleus in binary decay processes. <i>EPJ Web of Conferences</i> , 2018, 169, 00015.	0.3	1
54	Derivation of Maxwell-type equations for open systems. <i>Physical Review A</i> , 2018, 98, .	2.5	1

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55	Incorporating self-consistent single-particle potentials into the microscopic-macroscopic method. European Physical Journal A, 2018, 54, 1.	2.5	11
56	Induced fission modes of Fermium and Nobelium isotopes. Nuclear Physics A, 2018, 977, 1-13.	1.5	2
57	Suggestion for examination of a role of multi-chance fission. European Physical Journal A, 2018, 54, 1.	2.5	6
58	Capture cross section with quantum diffusion approach. Computer Physics Communications, 2018, 233, 145-155.	7.5	9
59	Toward an understanding of the anomaly in charge yield of Mo and Sn fragments in the fission reaction U238(n,f). Physical Review C, 2018, 98, .	2.9	5
60	Effect of Coriolis Interaction on the Decay of Isotones with N = 149 and N = 153. Bulletin of the Russian Academy of Sciences: Physics, 2018, 82, 691-696.	0.6	0
61	From dinuclear systems to close binary stars: Application to mass transfer. International Journal of Modern Physics E, 2018, 27, 1850063.	1.0	8
62	Galvano- and thermo-magnetic effects at low and high temperatures within non-Markovian quantum Langevin approach. Physica A: Statistical Mechanics and Its Applications, 2018, 508, 613-630.	2.6	4
63	Large-amplitude nuclear motion formulated in terms of dissipation of quantum fluctuations. Physics of Particles and Nuclei, 2017, 48, 158-209.	0.7	5
64	Non-Markovian dynamics of fully coupled fermionic and bosonic oscillators. Physical Review A, 2017, 95, .	2.5	11
65	Ways to produce new superheavy isotopes with Z = 111â€“117 in charged particle evaporation channels. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 764, 42-48.	4.1	39
66	Examination of production and properties of Hs268â€“271. Physical Review C, 2017, 96, .	2.9	1
67	Non-Markovian dynamics of mixed fermionic-bosonic systems: Rotating-wave-approximation coupling. Physical Review A, 2017, 96, .	2.5	7
68	Correlation between observed $\beta^\pm$ decays and changes in neutron or proton skins from parent to daughter nuclei. Physical Review C, 2017, 96, .	2.9	26
69	Spins of complex fragments in binary reactions within a dinuclear system model. Physical Review C, 2017, 96, .	2.9	4
70	Possibilities of production of transfermium nuclei in complete fusion reactions with radioactive beams. Physical Review C, 2017, 96, .	2.9	6
71	Quasiparticle structure of superheavy nuclei in $\beta^\pm$ -decay chains of $^{285}\text{Fl}$ and $^{291,293}\text{Lv}$ . Chinese Physics C, 2017, 41, 074105.	3.7	5
72	Physical origin of the transition from symmetric to asymmetric fission fragment charge distribution. AIP Conference Proceedings, 2017, , .	0.4	0

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73	Comparative analysis of the fusion reactions $Ti + Fe$ and $Ni + Ni$ . Acta Physica Polonica B, 2017, 48, 431.	2.9	9
74	Physical Origin of the Transition from Symmetric to Asymmetric Fission Fragment Charge Distribution. Acta Physica Polonica B, 2017, 48, 431.	0.8	4
75	Influence of Properties of Superheavy Nuclei on Their $\alpha$ Decays. Acta Physica Polonica B, 2017, 48, 441.	0.8	1
76	Predicting reaction observables from back-scattering measurements in low-energy heavy-ion collisions. EPJ Web of Conferences, 2016, 107, 08002.	0.3	0
77	Manifestation of cluster effects in collective octupole and superdeformed states of heavy nuclei.. Journal of Physics: Conference Series, 2016, 724, 012021.	0.4	0
78	Description of the Fusion-Fission Reactions in the Framework of Dinuclear System Conception. EPJ Web of Conferences, 2016, 117, 08007.	0.3	0
79	Level densities of dinuclear systems. European Physical Journal A, 2016, 52, 1.	2.5	4
80	Manifestation of cluster effects in the structure of actinides. EPJ Web of Conferences, 2016, 107, 03009.	0.3	0
81	Unexpected asymmetry of the charge distribution in the fission of $Th$ at high excitation energies. Physical Review C, 2016, 94, .	2.9	18
82	Extraction of potential energy in charge asymmetry coordinate from experimental fission data. European Physical Journal A, 2016, 52, 1.	2.5	17
83	Possibilities of production of neutron-rich Md isotopes in multi-nucleon transfer reactions. European Physical Journal A, 2016, 52, 1.	2.5	4
84	Extraction of pure transfer probabilities from experimental transfer and capture data. Physical Review C, 2016, 94, .	2.9	3
85	Description of alpha decay and cluster radioactivity in the dinuclear system model. Physics of Particles and Nuclei, 2016, 47, 206-235.	0.7	10
86	Application of the theory of open quantum systems to nuclear physics problems. Physics of Particles and Nuclei, 2016, 47, 157-205.	0.7	5
87	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
88	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
89	Effect of properties of superheavy nuclei on their production and decay. Physics of Particles and Nuclei, 2016, 47, 387-455.	0.7	3
90	Asymmetry of fission fragment mass distribution for Po and Ir isotopes. Physical Review C, 2016, 93, .	2.9	19

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91	Energy dependence of mass, charge, isotopic, and energy distributions in neutron-induced fission of $^{235}\text{U}$ and $^{239}\text{Pu}$ . Physical Review C, 2016, 93, .	2.9	29
92	Expected production of new exotic $\beta^\pm$ emitters $^{108}\text{Xe}$ and $^{112}\text{Ba}$ in complete fusion reactions. Physical Review C, 2016, 93, .	2.9	3
93	Experimental elastic and quasi-elastic angular distributions provide transfer probabilities. Physical Review C, 2016, 93, .	2.9	2
94	Isotopic trends of nuclear surface properties of spherical nuclei. Physical Review C, 2016, 94, .	2.9	16
95	Perspectives of production of superheavy nuclei. AIP Conference Proceedings, 2016, , .	0.4	1
96	Extracting integrated and differential cross sections in low energy heavy-ion reactions from backscattering measurements. AIP Conference Proceedings, 2016, , .	0.4	0
97	Manifestation of the structure of heavy nuclei in their alpha decays. Physics of Atomic Nuclei, 2016, 79, 951-962.	0.4	2
98	Description of alternating-parity bands within the dinuclear-system model. Physics of Atomic Nuclei, 2016, 79, 963-977.	0.4	0
99	Possibilities of production of transfermium nuclei in charged-particle evaporation channels. Physical Review C, 2016, 94, .	2.9	32
100	Quasifission and fusion-fission processes in the reactions $\text{Kr} + \text{Ca}$ . Physical Review C, 2016, 94, .	2.9	9
101	Description of quasifission reactions in the dinuclear system model. Physics of Particles and Nuclei, 2016, 47, 1-48.	0.7	7
102	Quasiparticle structure of superheavy nuclei along the $\beta^\pm$ -decay chain of $^{115}\text{Mn}$ . Physical Review C, 2015, 92, .	2.9	6
103	Entrance channel effects on sub-barrier capture. Physical Review C, 2015, 92, .	2.9	0
104	Influence of entrance channel on the production of hassium isotopes. Physical Review C, 2015, 92, .	2.9	23
105	Cluster approach to the structure of $^{240}\text{Pu}$ . Physical Review C, 2015, 92, .	2.9	19
106	Origin of termination of negative-parity bands. Physical Review C, 2015, 92, .	2.9	1
107	Isotopic trends in capture reactions with radioactive and stable potassium beams. Physical Review C, 2015, 92, .	2.9	4
108	Toward neutron-rich nuclei via transfer reactions with stable and radioactive beams. Physical Review C, 2015, 91, .	2.9	22

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109	Derivation of breakup probabilities of weakly bound nuclei from experimental elastic and quasi-elastic scattering angular distributions. <i>Physical Review C</i> , 2015, 92, .	2.9	5
110	Production of $^{100}\text{Sn}$ in fusion reactions via cluster emission channels. <i>EPJ Web of Conferences</i> , 2015, 88, 01009.	0.3	0
111	Level densities and shell corrections of superheavy nuclei. <i>Journal of Physics: Conference Series</i> , 2015, 580, 012026.	0.4	3
112	Analysis of the role of neutron transfer in asymmetric fusion reactions at subbarrier energies. <i>Physics of Atomic Nuclei</i> , 2015, 78, 985-992.	0.4	0
113	Role of the neck degree of freedom in cold fusion reactions. <i>Physical Review C</i> , 2015, 91, .	2.9	6
114	Analysis of the dependence of the few-neutron transfer probability on the $Q$ -value magnitudes. <i>Physical Review C</i> , 2015, 91, .	2.9	3
115	Examination of the different roles of neutron transfer in the sub-barrier fusion reactions $^{32}\text{S}+^{94,96}\text{Zr}$ and $^{40}\text{Ca}+^{94,96}\text{Zr}$ . <i>Physical Review C</i> , 2015, 91, .	2.9	30
116	Influence of Shell Structure on Level Densities of Superheavy Nuclei. <i>Acta Physica Polonica B</i> , 2015, 46, 563.	0.8	0
117	Description of non-Markovian effect in open quantum system with the discretized environment method. <i>European Physical Journal B</i> , 2015, 88, 1.	1.5	16
118	Population of Strongly Deformed Nuclear States Within the Cluster Approach. , 2015, , .		0
119	Energy-shifting formulae yield reliable reaction and capture probabilities. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2014, 739, 348-351.	4.1	14
120	Production of the doubly magic nucleus $^{100}\text{Sn}$ in fusion and quasifission reactions via light particle and cluster emission channels. <i>Physical Review C</i> , 2014, 90, .	2.9	12
121	Dinuclear systems in complete fusion reactions. <i>Physics of Particles and Nuclei</i> , 2014, 45, 848-923.	0.7	12
122	Effects of angular dependence of surface diffuseness in deformed nuclei on Coulomb barrier. <i>Physical Review C</i> , 2014, 90, .	2.9	23
123	Role of neutron transfer in asymmetric fusion reactions at sub-barrier energies. <i>European Physical Journal A</i> , 2014, 50, 1.	2.5	10
124	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
125	Excited states of deformed nuclei in the quasiparticle-phonon nuclear model. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2014, 78, 1137-1141.	0.6	4
126	Deriving capture and reaction cross sections from observed quasi-elastic and elastic backscattering. <i>Physical Review C</i> , 2014, 90, .	2.9	10



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127	Disagreement between capture probabilities extracted from capture and quasi-elastic backscattering excitation functions. European Physical Journal A, 2014, 50, 1.	2.5	4
128	Impact of nuclear structure on production of superheavy nuclei. Journal of Physics: Conference Series, 2014, 515, 012002.	0.4	4
129	Derivation of breakup probabilities from experimental elastic backscattering data. European Physical Journal A, 2014, 50, 1.	2.5	3
130	Production cross section of neutron-rich isotopes with radioactive and stable beams. Physical Review C, 2014, 89, .	2.9	24
131	Non-Markovian dynamics with fermions. Physical Review A, 2014, 90, .	2.5	20
132	Level densities of heaviest nuclei. European Physical Journal A, 2014, 50, 1.	2.5	11
133	Fusion at near-barrier energies within the quantum diffusion approach. EPJ Web of Conferences, 2014, 69, 00015.	0.3	0
134	Cluster approach to the structure of heavy nuclei. Journal of Physics: Conference Series, 2014, 569, 012056.	0.4	2
135	Derivation of capture and reaction cross sections from experimental quasi-elastic and elastic backscattering probabilities. EPJ Web of Conferences, 2014, 69, 00004.	0.3	1
136	Impact of nuclear structure on the production and identification of superheavy nuclei. EPJ Web of Conferences, 2014, 66, 02003.	0.3	0
137	Microscopic-macroscopic method for studying single-particle level density of superheavy nuclei. Journal of Physics: Conference Series, 2014, 503, 012011.	0.4	1
138	Nuclear reactions at near-barrier energies with quantum diffusion approach. Journal of Physics: Conference Series, 2014, 515, 012001.	0.4	1
139	Role of the quasiparticle structure in $\hat{I}_{\pm}$ -decays of superheavy nuclei. Bulletin of the Russian Academy of Sciences: Physics, 2013, 77, 406-410.	0.6	0
140	Derivation of capture cross sections from quasi-elastic excitation functions. Physical Review C, 2013, 87, .	2.9	13
141	Polarization of the nuclear surface in deformed nuclei. Physical Review C, 2013, 88, .	2.9	30
142	Production of exotic isotopes in complete fusion reactions with radioactive beams. Physical Review C, 2013, 88, .	2.9	8
143	Population of the yrast superdeformed band in $^{152}\text{Dy}$ within a cluster approach. Physical Review C, 2013, 88, .	2.9	3
144	Study of isotopic chain capture. Bulletin of the Russian Academy of Sciences: Physics, 2013, 77, 803-808.	0.6	0

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145	Threshold energy for sub-barrier fusion hindrance phenomenon. European Physical Journal A, 2013, 49, 1.	2.5	13
146	Sub-barrier capture reactions with $^{16}\text{O}$ and $^{40}\text{Ca}$ beams. European Physical Journal A, 2013, 49, 1.	2.5	18
147	Total and partial capture cross sections in reactions with deformed nuclei at energies near and below the Coulomb barrier. Physics of Atomic Nuclei, 2013, 76, 716-731.	0.4	4
148	Study of Isotopic Effects in Capture Process. Acta Physica Polonica B, 2013, 44, 471.	0.8	0
149	Derivation of reaction cross sections from experimental elastic backscattering probabilities. Physical Review C, 2013, 88, .	2.9	11
150	Neutron-pair transfer in the sub-barrier capture process. Physical Review C, 2013, 88, .	2.9	25
151	Isospin dependence of mass-distribution shape of fission fragments of Hg isotopes. Physical Review C, 2013, 88, .	2.9	44
152	Influence of shell effects on mass asymmetry in fission of different Hg isotopes. EPJ Web of Conferences, 2013, 62, 06007.	0.3	2
153	Cluster aspects of binary fission. Journal of Physics: Conference Series, 2013, 436, 012059.	0.4	0
154	Population and properties of superdeformed bands in $A \approx 150$ region. Journal of Physics: Conference Series, 2013, 436, 012062.	0.4	0
155	Formation of strongly deformed states in entrance channels. Journal of Physics: Conference Series, 2013, 436, 012060.	0.4	0
156	Structures of nuclei in $\alpha$ -decay chains of $^{291}\text{Fr}$ , $^{293}\text{Fr}$ . Physical Review C, 2012, 85, .	2.9	6
157	Influence of proton shell closure on production and identification of new superheavy nuclei. Physical Review C, 2012, 85, .	2.9	52
158	Deformation effect in the sub-barrier capture process. Physical Review C, 2012, 85, .	2.9	17
159	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
160	Oblate-prolate deformation effect in capture reactions at sub-barrier energies. Physical Review C, 2012, 85, .	2.9	17
161	Role of neutron transfer in capture processes at sub-barrier energies. Physical Review C, 2012, 85, .	2.9	61
162	Isotopic trends of capture cross section and mean-square angular momentum of the captured system. Physical Review C, 2012, 85, .	2.9	26

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163	Role of quasiparticle structure in $\lambda$ decays of the heaviest nuclei. Physical Review C, 2012, 85, .	2.9	13
164	Role of neutron transfer and deformation effect in capture process at sub-barrier energies. EPJ Web of Conferences, 2012, 38, 09005.	0.3	0
165	Description of light charged particle multiplicities in the framework of dinuclear system model. EPJ Web of Conferences, 2012, 38, 09002.	0.3	1
166	Influence of proton shell closure on production of new superheavy nuclei. EPJ Web of Conferences, 2012, 38, 17004.	0.3	0
167	Mass distributions for induced fission of different Hg isotopes. Physical Review C, 2012, 86, .	2.9	55
168	Quasifission at extreme sub-barrier energies. European Physical Journal A, 2012, 48, 1.	2.5	2
169	Emission of heavy clusters in nuclear reactions at low collision energies. Physics of Particles and Nuclei, 2012, 43, 825-866.	0.7	11
170	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
171	Astrophysical S factor, logarithmic slope of the excitation function, and barrier distribution. Physical Review C, 2012, 86, .	2.9	11
172	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
173	Quantum diffusion description of the subbarrier-capture process in heavy-ion reactions. Physics of Atomic Nuclei, 2012, 75, 439-448.	0.4	9
174	Peculiarities of sub-barrier reactions with heavy ions. Journal of Physics: Conference Series, 2011, 282, 012001.	0.4	21
175	Sub-barrier capture with quantum diffusion approach. EPJ Web of Conferences, 2011, 17, 04003.	0.3	17
176	Production of doubly magic nucleus $^{100}\text{Sn}$ in $^{72,74,76}\text{Kr}+^{40}\text{Ca}$ , $^{72,74,76}\text{Kr}+^{40}\text{Ar}$ and $^{72,74,76}\text{Kr}+^{32}\text{S}$ reactions at $4 \lesssim 6$ MeV/nucleon. EPJ Web of Conferences, 2011, 17, 10004.	0.3	1
177	Decay of excited nuclei produced in the $^{78,82}\text{Kr}+^{40}\text{Ca}$ reactions at 5.5 MeV/nucleon. EPJ Web of Conferences, 2011, 17, 10005.	0.3	4
178	Production of exotic nuclei in quasifission-type reactions. Journal of Physics: Conference Series, 2011, 282, 012002.	0.4	2
179	Mechanism of heavy ion fusion to superheavy nuclei. Journal of Physics: Conference Series, 2011, 322, 012009.	0.4	2
180	Multiple reflection-asymmetric-type band structures in $^{220}\text{Th}$ and dinuclear model. European Physical Journal A, 2011, 47, 1.	2.5	6

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181	Sub-barrier capture with quantum diffusion approach: Actinide-based reactions. European Physical Journal A, 2011, 47, 1.	2.5	35
182	Impact of nuclear structure on production and identification of new superheavy nuclei. European Physical Journal A, 2011, 47, 1.	2.5	12
183	Decay of excited nuclei produced in $^{78,82}\text{Kr}+^{40}\text{Ca}$ reactions at 5.5 MeV/nucleon. Physical Review C, 2011, 83, .	2.9	57
184	Non-Markovian dynamics of an open quantum system with nonstationary coupling. Physical Review E, 2011, 83, 041104.	2.1	5
185	Role of angular momentum in the production of complex fragments in fusion and quasifission reactions. Physical Review C, 2011, 83, .	2.9	33
186	Emission of clusters with $Z > 2$ from excited actinide nuclei. Physical Review C, 2011, 84, .	2.9	11
187	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
188	Peculiarities of parabolic-barrier penetrability and thermal decay rate with the quantum diffusion approach. Physical Review A, 2011, 83, .	2.5	16
189	Population of ground-state rotational bands of superheavy nuclei produced in complete fusion reactions. Physical Review C, 2011, 84, .	2.9	9
190	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
191	Clusterization in the shape isomers of the $^{56}\text{Ni}$ nucleus. Physical Review C, 2011, 84, .	2.9	16
192	Behavior of one-quasiparticle levels in odd isotonic chains of heavy nuclei. Physical Review C, 2011, 84, .	2.9	34
193	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
194	PRODUCTION OF NEUTRON-RICH ISOTOPES IN TRANSFER-TYPE REACTIONS. International Journal of Modern Physics E, 2011, 20, 999-1002.	1.0	1
195	FORMATION OF HYPERDEFORMED STATES FROM DINUCLEAR SYSTEM. International Journal of Modern Physics E, 2011, 20, 919-922.	1.0	0
196	Title is missing!. Acta Physica Polonica B, 2011, 42, 481.	0.8	1
197	Title is missing!. Acta Physica Polonica B, 2011, 42, 487.	0.8	2
198	On the hyperdeformed state of the $^{36}\text{Ar}$ nucleus. Journal of Physics: Conference Series, 2010, 239, 012006.	0.4	4

#	ARTICLE	IF	CITATIONS
199	Emission of charged particles from excited compound nucleus. , 2010, , .		2
200	Quantum statistical effects in nuclear reactions, fission, and open quantum systems. Physics of Particles and Nuclei, 2010, 41, 175-229.	0.7	47
201	Isomeric states in heavy nuclei. Physics of Particles and Nuclei, 2010, 41, 1101-1104.	0.7	4
202	Peculiarities of the sub-barrier fusion with the quantum diffusion approach. European Physical Journal A, 2010, 45, 125-130.	2.5	65
203	Possibility of production of new superheavy nuclei in complete fusion reactions. Nuclear Physics A, 2010, 834, 345c-348c.	1.5	13
204	Transfer-induced fission of superheavy nuclei. Physical Review C, 2010, 82, .	2.9	2
205	Formation of hyperdeformed states by neutron emission from a dinuclear system. Physical Review C, 2010, 81, .	2.9	15
206	Production of neutron-rich Ca, Sn, and Xe isotopes in transfer-type reactions with radioactive beams. Physical Review C, 2010, 82, .	2.9	31
207	Emission of charged particles from excited compound nuclei. Physical Review C, 2010, 82, .	2.9	51
208	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
209	Predicted yields of new neutron-rich isotopes of nuclei with $Z < 64$ in the multinucleon transfer reaction $Z > 48$ Ca $\rightarrow$ Z heavy nuclei. Physical Review C, 2010, 82, .	2.9	42
210	High-spin isomers in some of the heaviest nuclei: Spectra, decays, and population. Physical Review C, 2010, 81, .	2.9	59
211	Comment on "Ratios of disintegration rates for distinct decay modes of an excited nucleus". Physical Review C, 2010, 81, .	2.9	5
212	Formation of hyperdeformed states in capture reactions at sub-barrier energies. Physical Review C, 2010, 82, .	2.9	10
213	One-quasiparticle states in odd-Z heavy nuclei. Physical Review C, 2010, 82, .	2.9	39
214	Description of light charged particle emission in ternary fission. , 2009, , .		1
215	Capture process in nuclear reactions with a quantum master equation. Physical Review C, 2009, 80, .	2.9	36
216	Interaction times in the $^{136}\text{Xe} + ^{136}\text{Xe}$ and $^{238}\text{U} + ^{238}\text{U}$ reactions with a quantum master equation. Physical Review C, 2009, 80, .	2.9	30

#	ARTICLE	IF	CITATIONS
217	Stability of superheavy nuclei produced in actinide-based complete fusion reactions: Evidence for the next magic proton number at $Z=120$ . <i>Physical Review C</i> , 2009, 79, .	2.9	35
218	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
219	Quantum-mechanical description of the initial stage of fusion reaction. <i>Physics of Atomic Nuclei</i> , 2009, 72, 425-438.	0.4	4
220	Isotopic dependence of the cross section for the induced fission of heavy nuclei. <i>Physics of Atomic Nuclei</i> , 2009, 72, 928-937.	0.4	1
221	Application of statistical methods for analysis of heavy-ion reactions in the framework of a dinuclear system model. <i>Physics of Particles and Nuclei</i> , 2009, 40, 847-889.	0.7	34
222	Isotopic Dependence of Isomeric States in Heavy Nuclei. , 2009, , .		2
223	Quantum non-Markovian Langevin equations and transport coefficients for an inverted oscillator. <i>Theoretical and Mathematical Physics(Russian Federation)</i> , 2008, 156, 1331-1346.	0.9	2
224	Spectroscopic factors within the dinuclear-system model. <i>Physics of Atomic Nuclei</i> , 2008, 71, 1756-1768.	0.4	8
225	Quantum non-Markovian Langevin formalism for heavy ion reactions near the Coulomb barrier. <i>Physical Review C</i> , 2008, 77, .	2.9	16
226	CLUSTER ASPECTS OF PRODUCTION AND DECAY OF EXOTIC NUCLEI. <i>International Journal of Modern Physics E</i> , 2008, 17, 2363-2367.	1.0	0
227	CLUSTER FEATURES OF STRONGLY DEFORMED NUCLEI SHAPES. <i>International Journal of Modern Physics E</i> , 2008, 17, 2020-2024.	1.0	9
228	BINARY AND TERNARY FISSION WITHIN THE STATISTICAL MODEL. <i>International Journal of Modern Physics E</i> , 2008, 17, 2014-2019.	1.0	1
229	Possibility of production of neutron-rich isotopes in transfer-type reactions at intermediate energies. <i>Physical Review C</i> , 2008, 78, .	2.9	15
230	Possibilities of production of neutron-deficient isotopes of U, Np, Pu, Am, Cm, and Cf in complete fusion reactions. <i>Physical Review C</i> , 2008, 78, .	2.9	16
231	NUCLEAR MOLECULES. <i>International Journal of Modern Physics E</i> , 2007, 16, 1021-1031.	1.0	3
232	Isotopic Dependence of Neutron Emission from Dinuclear System. <i>AIP Conference Proceedings</i> , 2007, , .	0.4	0
233	Fission rate and transient time with a quantum master equation. <i>Physical Review C</i> , 2007, 76, .	2.9	25
234	Coordinate-dependent diffusion coefficients: Decay rate in open quantum systems. <i>Physical Review A</i> , 2007, 75, .	2.5	21

#	ARTICLE	IF	CITATIONS
235	Influence of external magnetic field on dynamics of open quantum systems. <i>Physical Review E</i> , 2007, 75, 031115.	2.1	21
236	Isotopic dependence of neutron emission from dinuclear system. <i>European Physical Journal A</i> , 2007, 33, 223-230.	2.5	6
237	Decay rate with coordinate-dependent diffusion coefficients. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2007, 386, 36-46.	2.6	5
238	Nuclear structure in the dinuclear model with rotating clusters. <i>Physics of Atomic Nuclei</i> , 2007, 70, 1350-1356.	0.4	2
239	Cluster approach to the structure of nuclei with $Z \approx 96$ . <i>Physics of Atomic Nuclei</i> , 2007, 70, 1452-1456.	0.4	1
240	Cluster aspects of binary and ternary fission. <i>Physics of Atomic Nuclei</i> , 2007, 70, 1649-1653.	0.4	1
241	Effects of nuclear deformation in dinuclear systems: Application to the fission process. <i>Physics of Atomic Nuclei</i> , 2006, 69, 197-206.	0.4	2
242	Production of neutron-rich Ca isotopes in transfer-type reactions. <i>European Physical Journal A</i> , 2006, 27, 187-190.	2.5	25
243	Ternary fission within statistical approach. <i>European Physical Journal A</i> , 2006, 30, 579-589.	2.5	27
244	Transport coefficients of a quantum system interacting with a squeezed heat bath. <i>Physical Review E</i> , 2006, 74, 011118.	2.1	11
245	Possible alternative parity bands in the heaviest nuclei. <i>Physical Review C</i> , 2006, 74, .	2.9	47
246	Towards neutron drip line via transfer-type reactions. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2005, 621, 119-125.	4.1	45
247	Survival probabilities of superheavy nuclei based on recent predictions of nuclear properties. <i>European Physical Journal A</i> , 2005, 23, 249-256.	2.5	26
248	Bimodality and charge splitting in fission of actinides. <i>European Physical Journal A</i> , 2005, 26, 327-332.	2.5	24
249	Fine Structures by Deformation in the Mass-Energy Distribution of Fission Fragments. <i>Acta Physica Hungarica A Heavy Ion Physics</i> , 2005, 22, 3-11.	0.4	1
250	Spectroscopic factors and barrier penetrabilities in cluster radioactivity. <i>Physics of Atomic Nuclei</i> , 2005, 68, 1443-1452.	0.4	12
251	Quantum non-Markovian Langevin equations and transport coefficients. <i>Physics of Atomic Nuclei</i> , 2005, 68, 2009-2021.	0.4	3
252	Quantum Non-Markovian Stochastic Equations. <i>Theoretical and Mathematical Physics (Russian)</i> Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 62	0.9	32

#	ARTICLE	IF	CITATIONS
253	Cluster Features of Normal-, Super- and Hyperdeformed nuclei. AIP Conference Proceedings, 2005, , .	0.4	1
254	Transfer-type products accompanying cold fusion reactions. Physical Review C, 2005, 72, .	2.9	14
255	Production of unknown transactinides in asymmetry-exit-channel quasifission reactions. Physical Review C, 2005, 71, .	2.9	77
256	Non-Markovian dynamics of quantum systems. I. Formalism and transport coefficients. Physical Review E, 2005, 71, 016121.	2.1	50
257	Spectroscopic factors and cluster decay half-lives of heavy nuclei. Physical Review C, 2005, 71, .	2.9	56
258	Non-Markovian dynamics of quantum systems. II. Decay rate, capture, and pure states. Physical Review E, 2005, 71, 016122.	2.1	34
259	Isotopic trends in the production of superheavy nuclei in cold fusion reactions. Physical Review C, 2004, 69, .	2.9	60
260	Possibilities of synthesis of new superheavy nuclei in actinide-based fusion reactions. Physical Review C, 2004, 69, .	2.9	54
261	Unexpected isotopic trends in synthesis of superheavy nuclei. Physical Review C, 2004, 69, .	2.9	60
262	Decay out of superdeformed bands in the mass region $A \approx 190$ within a cluster approach. Physical Review C, 2004, 69, .	2.9	23
263	Cluster interpretation of parity doublet rotational bands in odd-mass nuclei. Physical Review C, 2004, 70, .	2.9	32
264	Nuclear structure with the dinuclear model. Physics of Atomic Nuclei, 2004, 67, 1701-1708.	0.4	3
265	Superdeformation as cluster state. Physics of Atomic Nuclei, 2004, 67, 1709-1714.	0.4	1
266	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
267	Possible explanation of fine structures in mass-energy distribution of fission fragments. European Physical Journal A, 2004, 22, 51-60.	2.5	50
268	Fusion and Quasifission within the Dinuclear System Model. Acta Physica Hungarica A Heavy Ion Physics, 2004, 19, 87-94.	0.4	6
269	Survival Probability of Excited Heavy and Superheavy Nuclei. Acta Physica Hungarica A Heavy Ion Physics, 2004, 19, 147-148.	0.4	0
270	Manifestation of cluster effects in the structure of medium mass and heavy nuclei. Nuclear Physics A, 2004, 734, 433-436.	1.5	6



#	ARTICLE	IF	CITATIONS
271	Fusion and Quasifission in a Molecular Model. , 2004, , 447-462.		0
272	Cluster Interpretation of Highly Deformed Nuclear States. Acta Physica Hungarica A Heavy Ion Physics, 2003, 18, 311-316.	0.4	4
273	Generation of angular momentum of fission fragments in a cluster model. Physics of Atomic Nuclei, 2003, 66, 206-217.	0.4	4
274	Survivability of excited superheavy nuclei. Physics of Atomic Nuclei, 2003, 66, 218-232.	0.4	8
275	Characteristics of quasifission products within the dinuclear system model. Physical Review C, 2003, 68, .	2.9	190
276	Competition between evaporation channels in neutron-deficient nuclei. Physical Review C, 2003, 68, .	2.9	60
277	Cluster effects in the structure of the ground state and superdeformed bands of $^{60}\text{Zn}$ . Physical Review C, 2003, 67, .	2.9	33
278	Cluster interpretation of properties of alternating parity bands in heavy nuclei. Physical Review C, 2003, 67, .	2.9	93
279	Survival probability of superheavy nuclei. Physical Review C, 2002, 65, .	2.9	91
280	Synthesis of Superheavy Elements in Dinuclear System Model. Progress of Theoretical Physics Supplement, 2002, 146, 536-537.	0.1	0
281	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
282	Generalization of Kramers formula for open quantum systems. Physica A: Statistical Mechanics and Its Applications, 2002, 316, 297-313.	2.6	17
283	Role of bending mode in generation of angular momentum of fission fragments. Physical Review C, 2002, 65, .	2.9	30
284	Potential in mass asymmetry and quasifission in a dinuclear system. Nuclear Physics A, 2001, 679, 410-426.	1.5	27
285	Synthesis of superheavy elements and the process of complete fusion of massive nuclei. Physics of Atomic Nuclei, 2001, 64, 1116-1120.	0.4	0
286	How to observe hyperdeformed states populated in heavy ion reactions. Physical Review C, 2001, 64, .	2.9	14
287	Quasifission process in a transport model for a dinuclear system. Physical Review C, 2001, 64, .	2.9	57
288	Fusion to Superheavy Nuclei and Quasifission. Acta Physica Hungarica A Heavy Ion Physics, 2001, 14, 3-12.	0.4	0

#	ARTICLE	IF	CITATIONS
289	Fusion and Quasifission of Heavy Nuclei. , 2001, , 163-172.		0
290	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
291	Isotopic dependence of fusion cross sections in reactions with heavy nuclei. Nuclear Physics A, 2000, 678, 24-38.	1.5	185
292	Relationship between dinuclear systems and nuclei in highly deformed states. Nuclear Physics A, 2000, 671, 119-135.	1.5	55
293	Dynamical restriction for a growing neck due to mass parameters in a dinuclear system. Nuclear Physics A, 2000, 671, 233-254.	1.5	38
294	Clustering aspects of nuclei in highly deformed states. Physics of Atomic Nuclei, 2000, 63, 1716-1723.	0.4	0
295	Effect of transport coefficients on the time dependence of a density matrix. Journal of Physics A, 2000, 33, 4265-4276.	1.6	20
296	Analysis of survival probability of superheavy nuclei. Physical Review C, 2000, 62, .	2.9	63
297	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
298	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
299	Friction and diffusion coefficients in coordinate in nonequilibrium nuclear processes. Nuclear Physics A, 1999, 645, 376-398.	1.5	21
300	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
301	Dinuclear system in diabatic two-center shell model approach. Nuclear Physics A, 1999, 652, 61-70.	1.5	28
302	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
303	Tunneling with dissipation in open quantum systems. Physics Letters, Section A: General, Atomic and Solid State Physics, 1998, 244, 482-488.	2.1	28
304	Fusion cross sections for superheavy nuclei in the dinuclear system concept. Nuclear Physics A, 1998, 633, 409-420.	1.5	220
305	Towards exotic nuclei via binary reaction mechanism. Physical Review C, 1998, 57, 1832-1838.	2.9	7
306	Process of complete fusion of nuclei within the framework of dinuclear system concept. Il Nuovo Cimento A, 1997, 110, 1127-1135.	0.2	7

#	ARTICLE	IF	CITATIONS
307	Competition between complete fusion and quasi-fission in dinuclear system. <i>Il Nuovo Cimento A</i> , 1997, 110, 1143-1148.	0.2	31
308	Neck dynamics at the approach stage of heavy ion collisions. <i>Nuclear Physics A</i> , 1997, 619, 241-260.	1.5	13
309	Treatment of competition between complete fusion and quasifission in collisions of heavy nuclei. <i>Nuclear Physics A</i> , 1997, 627, 361-378.	1.5	153
310	Model of competition between fusion and quasifission in reactions with heavy nuclei. <i>Nuclear Physics A</i> , 1997, 618, 176-198.	1.5	130
311	Cluster approach to description of fission modes. <i>Nuclear Physics A</i> , 1996, 611, 355-369.	1.5	21
312	EFFECTIVE NUCLEUS-NUCLEUS POTENTIAL FOR CALCULATION OF POTENTIAL ENERGY OF A DINUCLEAR SYSTEM. <i>International Journal of Modern Physics E</i> , 1996, 05, 191-216.	1.0	217
313	COMPLETE FUSION OF MASSIVE NUCLEI IN FRAMES OF DNS-CONCEPT AND MACROSCOPIC DYNAMICAL MODEL. , 1996, , .		0
314	Mass parameters for a dinuclear system. <i>Nuclear Physics A</i> , 1995, 584, 205-220.	1.5	52
315	Model of competition between complete fusion and quasi-fission in reactions with massive nuclei. <i>Nuclear Physics A</i> , 1995, 583, 165-168.	1.5	7
316	Compound nucleus formation in reactions between massive nuclei: Fusion barrier. <i>Physical Review C</i> , 1995, 51, 2635-2645.	2.9	165
317	Application of the Lindblad axiomatic approach to non-equilibrium nuclear processes. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 1994, 20, 1447-1459.	3.6	19
318	Light nuclei production in fusion of heavy ions. <i>Physical Review C</i> , 1994, 50, 2063-2068.	2.9	12
319	Production of heavy actinides in incomplete fusion reactions. <i>Journal of Alloys and Compounds</i> , 1994, 213-214, 460-464.	5.5	2
320	Competition between complete fusion and quasi-fission in reactions between massive nuclei. The fusion barrier. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1993, 319, 425-430.	4.1	198
321	Microscopic driving potential for a dinuclear system. <i>Nuclear Physics A</i> , 1993, 551, 321-332.	1.5	26
322	Mechanism of enhanced yield of light particles in compound nucleus formation: Diffusion description. <i>Zeitschrift für Physik A</i> , 1992, 341, 459-463.	0.9	8
323	Mechanism of enhanced yield of light particles in compound nucleus formation. <i>Zeitschrift für Physik A</i> , 1991, 339, 453-463.	0.9	26
324	The microscopic treatment of proton and neutron multiple transfer in DIC. <i>Zeitschrift für Physik A</i> , 1991, 338, 423-430.	0.9	12

#	ARTICLE	IF	CITATIONS
325	Influence of the Shell Effects on the Charge Distributions of the Heavy-Ion Reaction Products. Physica Scripta, 1990, T32, 27-30.	2.5	1