

# Feng-Shou 冯守军 Zhang

## List of Publications by Year in descending order

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150  
papers

2,191  
citations

236925

25  
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289244

40  
g-index

151  
all docs

151  
docs citations

151  
times ranked

797  
citing authors

#	ARTICLE	IF	CITATIONS
1	The Influence of Sequence Dependence and External Solvents on DNA Conformation. Springer Proceedings in Physics, 2022, , 193-217.	0.2	0
2	Evolution of nuclear charge radii in copper and indium isotopes *. Chinese Physics C, 2022, 46, 064101.	3.7	2
3	Charge radii of potassium isotopes in the RMF (BCS)* approach *. Chinese Physics C, 2022, 46, 054101.	3.7	5
4	Production of unknown neutron-rich transuranium isotopes $^{245}\text{Np}$ , $^{248}\text{Pu}$ , $^{248}\text{Am}$ , and $^{252}\text{Cm}$ in multinucleon transfer reactions. Journal of Physics G: Nuclear and Particle Physics, 2022, 49, 025106.	3.6	6
5	Resonant coherent excitation and energy loss of slow channeling helium ions in AlN. Physical Review A, 2022, 105, .	2.5	2
6	Odd-even staggering and shell effects of charge radii for nuclei with even $Z$ from 36 to 38 and from 52 to 62. Physical Review C, 2022, 105, .	2.9	9
7	TD-carbon: A new face-centered cubic carbon allotrope. Chemical Physics, 2022, 555, 111458.	1.9	1
8	Enhancement in optical absorption of CsI(Na). Nuclear Science and Techniques/Hewuli, 2022, 33, 1.	3.4	1
9	Transport model comparison studies of intermediate-energy heavy-ion collisions. Progress in Particle and Nuclear Physics, 2022, 125, 103962.	14.4	55
10	Revising inelastic dark matter direct detection by including the cosmic ray acceleration. Journal of High Energy Physics, 2022, 2022, .	4.7	21
11	How to approach the island of stability: Reactions using multinucleon transfer or radioactive neutron-rich beams?. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2022, 829, 137113.	4.1	5
12	Electronic stopping power and electronic energy-loss mechanism for a low-energy ion in TiN under channeling conditions. Physical Review A, 2022, 105, .	2.5	0
13	Production of p-rich nuclei with $Z=20-25$ based on radioactive ion beams. Nuclear Science and Techniques/Hewuli, 2022, 33, .	3.4	6
14	Theoretical study on the production of neutron-rich transuranium nuclei with radioactive beams in multinucleon transfer reactions. Physical Review C, 2022, 106, .	2.9	3
15	Production mechanism and prediction cross sections of unknown neutron-rich $^{263}\text{Lr}$ , $^{265}\text{Lr}$ , $^{269}\text{Lr}$ isotopes in multinucleon transfer reactions based on the dinuclear system model. Journal of Physics G: Nuclear and Particle Physics, 2022, 49, 095104.	3.6	1
16	Fully self-consistent calculation of $\beta^2$ -decay half-lives within Skyrme energy density functional. Chinese Physics C, 2021, 45, 014105.	3.7	3
17	Effects of nucleus orientation on transfer process and production of unknown neutron-rich isotopes with $Z < 62$ in $\text{Hg} + \text{Hg}$ reactions. Physical Review C, 2022, 106, .	2.9	5
18	Anion effect of $\text{Cl}^-$ , $\text{I}^-$ , and $\text{F}^-$ on counterions condensation within nucleic acid ion atmosphere. Journal of Molecular Liquids, 2021, 332, 115899.	4.9	3

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19	Theoretical calculations of the nuclear deformation effects on $\hat{I}\pm$ -decay half-lives for heavy and super-heavy nuclei. Journal of Physics G: Nuclear and Particle Physics, 2021, 48, 095106.	3.6	0
20	Isospin effects of projectile fragmentation in a Boltzmann-Langevin approach *. Chinese Physics C, 2021, 45, 084103.	3.7	4
21	Comparison of heavy-ion transport simulations: Mean-field dynamics in a box. Physical Review C, 2021, 104, .	2.9	38
22	Possible assignment of excited light S31 vector mesons. Physical Review D, 2021, 104, .	4.7	9
23	First-principles study of semicore electron excitation in the electronic energy loss of ZnO for protons. Physical Review A, 2021, 104, .	2.5	7
24	Comparison of the ionic effects of $\text{Ca}^{39}$ and $\text{Ca}^{40}$ ions on the electronic energy loss of Mg ions. Physical Review B, 2021, 104, .	4.9	5
25	First-principles study of the electronic stopping power of indium for protons and He ions. Physical Review B, 2021, 104, .	3.2	10
26	Monte-Carlo simulation of ion distributions in a gas cell for multinucleon transfer reaction products at LENSIAF spectrometer. Nuclear Instruments & Methods in Physics Research B, 2020, 463, 528-532.	1.4	0
27	Electronic stopping power for slow ions in the low-hardness semimetal HgTe using first-principles calculations. Journal of Physics Condensed Matter, 2020, 32, 105701.	1.8	2
28	Role of the quasifission yields in the multinucleon transfer reactions of $^{136}\text{Xe}$ and $^{208}\text{Pb}$ . Physical Review C, 2020, 102, .	2.9	3
29	Isospin dependence of projectile fragmentation at hundreds of MeV/u. Chinese Physics C, 2020, 44, 084106.	3.7	4
30	Production mechanism of the neutron-rich nuclei in multinucleon transfer reactions: A reaction time scale analysis in energy dissipation process. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 809, 135697.	4.1	20
31	Polymorphism and Flexibility of DNA in Alcohols. Chinese Physics Letters, 2020, 37, 088701.	3.3	3
32	Theoretical progress on production of isotopes in the multinucleon transfer process. International Journal of Modern Physics E, 2020, 29, 2030004.	1.0	13
33	Excitation effect of $d$ electrons on the electronic energy loss of energetic protons colliding with a Zn atom. Physical Review A, 2020, 101, .	2.5	2
34	Electronic stopping power under channeling conditions for slow ions in Ge using first principles. Physical Review A, 2020, 102, .	2.5	5
35	Sequence dependence of the conformational transitions of DNA. Chemical Physics Letters, 2020, 748, 137344.	2.6	3
36	In situ luminescence measurement from lithium fluoride under various ions. Wuli Xuebao/Acta Physica Sinica, 2020, 69, 107801.	0.5	1





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73	Mechanism of multinucleon transfer reaction based on the GRAZING model and DNS model. Journal of Physics G: Nuclear and Particle Physics, 2017, 44, 115101.	3.6	24
74	<i>Ab initio</i> electronic stopping power and threshold effect of channeled slow light ions in $\text{HfO}_2$ . Physical Review B, 2017, 96, .	3.2	19
75	Production of neutron-rich nuclei with $Z=60\text{--}73$ in reactions induced by Xe isotopes. Physical Review C, 2017, 96, .	2.9	26
76	Production cross sections of neutron-rich $\text{No}$ isotopes. Physical Review C, 2017, 95, .	2.9	9
77	on central $k$ -mass splitting in $\text{Ru}$ .		

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91	Solvation of halogen ions in aqueous solutions at 500 K–600 K under 100 atm. Chinese Physics B, 2015, 24, 123601.	1.4	1
92	Probing the momentum-dependent symmetry potential via nuclear collective flows. Physical Review C, 2015, 91, .	2.9	9
93	Properties of pure water and sodium chloride solutions at high temperatures and pressures: a simulation study. Molecular Simulation, 2015, 41, 1488-1494.	2.0	7
94	Effect of fragment emission time on the temperature of momentum quadrupole fluctuations. Physical Review C, 2015, 91, .	2.9	5
95	Structural conservation of the short $\alpha$ -helix in modified higher and lower polarity water solutions. RSC Advances, 2015, 5, 9627-9634.	3.6	3
96	Production of heavy neutron-rich nuclei in transfer reactions within the dinuclear system model. Journal of Physics G: Nuclear and Particle Physics, 2015, 42, 085102.	3.6	39
97	Production cross section of neutron-rich calcium isotopes in heavy ion collisions. Chinese Physics C, 2015, 39, 044103.	3.7	1
98	Theoretical study of the channeling effect in the electronic stopping power of silicon carbide nanocrystal for low-energy protons and helium ions. Nuclear Instruments & Methods in Physics Research B, 2015, 342, 215-220.	1.4	9
99	Production cross sections of superheavy elements $Z > 110$ in hot fusion reactions. Physical Review C, 2014, 89, .	2.9	7
100	Collision dynamics of proton with formaldehyde: Fragmentation and ionization. Journal of Chemical Physics, 2014, 140, 124306.	3.0	7
101	Mixed-salt effects on the conformation of a short salt-bridge-forming $\alpha$ -helix: A simulation study. Physical Review E, 2014, 89, 022717.	2.1	2
102	Effect of the spin-orbit interaction on flows in heavy-ion collisions at intermediate energies. Physical Review C, 2014, 90, .	2.9	4
103	$\alpha$ -nuclear shapes in head-on heavy ion collisions. Physical Review C, 2014, 89, .	2.9	8
104	Nonisotropic and nonsingle explosion in central $^{129}\text{Xe} + ^{120}\text{Sn}$ collisions at 50–125 MeV/nucleon. Physical Review C, 2014, 89, .	2.9	24
105	Hofmeister series and ionic effects of alkali metal ions on DNA conformation transition in normal and less polarised water solvent. Molecular Physics, 2014, 112, 2707-2719.	1.7	10
106	Probing the Reactivity of Hydroxyl Radicals toward Isolated Thymine Using Theoretical Calculations. International Journal of Quantum Chemistry, 2014, 114, 367-374.	2.0	4
107	Evaluation of the curvature-correction term from the equation of state of nuclear matter. Physical Review C, 2014, 90, .	2.9	7
108	Orientation effects on evaporation residue cross sections in $^{48}\text{Ca}$ -induced hot fusion reactions. Physical Review C, 2014, 90, .	2.9	48

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109	Irradiation effects in single-walled carbon nanotubes: Density-functional theory based treatments. Computational Materials Science, 2014, 93, 15-21.	3.0	5
110	Nuclear collective flows as a probe to the neutron-proton effective mass splitting. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 735, 250-255.	4.1	30
111	The effects of electron transfer on the energy loss of slow He <sup>2+</sup> , C <sup>2+</sup> , and C <sup>4+</sup> ions penetrating a graphene fragment. Journal of Physics Condensed Matter, 2014, 26, 085402.	1.8	8
112	First-principles study of the threshold effect in the electronic stopping power of LiF and SiO <sub>2</sub> for low-velocity protons and helium ions. Physical Review A, 2014, 89, .	2.1	3
113	Magnetism of hydrogen-irradiated silicon carbide. Physics Letters, Section A: General, Atomic and Solid State Physics, 2014, 378, 1897-1902.	2.1	3
114	Theoretical study on collision dynamics of H <sup>+</sup> + CH <sub>4</sub> at low energies. Journal of Chemical Physics, 2014, 140, 054308.	3.0	24
115	Molecular insights into the mechanisms of cation-type specific stability and denaturation of poly-scp-glutamate: a simulation study. Molecular Simulation, 2013, 39, 842-847.	2.0	0
116	Study of the dynamical potential barriers in heavy ion collisions. Nuclear Physics A, 2013, 915, 90-105.	1.5	21
117	Dynamics of proton collisions with acetylene, ethylene and ethane at 30 eV. Chemical Physics, 2013, 410, 9-18.	1.9	13
118	Collision of H <sup>++</sup> CH <sub>4</sub> at 30eV: A simulation study. Nuclear Instruments & Methods in Physics Research B, 2013, 307, 225-228.	1.4	5
119	The steric effect in the formation of protonated HCOOH. Nuclear Instruments & Methods in Physics Research B, 2013, 307, 277-280.	1.4	0
120	Symmetry energy and pion production in the Boltzmann-Langevin approach. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 718, 1510-1514.	4.1	93
121	Ion effects of Sr <sup>2+</sup> , Cs <sup>+</sup> and I <sup>+</sup> on DNA in aqueous solutions. Chemical Physics Letters, 2013, 574, 100-105.	2.6	6
122	Neutron-proton effective mass splitting in a Boltzmann-Langevin approach. Physical Review C, 2013, 88, .	2.9	24
123	Non-equilibrium and residual memory in momentum space of fragmenting sources in central heavy-ion collisions. Physical Review C, 2013, 87, .	2.9	24
124	Collision dynamics of energetic carbon ions impinging on single-walled carbon nanotubes. EPJ Applied Physics, 2013, 64, 10401.	0.7	3
125	Nuclear temperatures from kinetic characteristics. Physical Review C, 2012, 85, .	2.9	31
126	Impact energy dependence of defect formation in single-walled carbon nanotubes. Chemical Physics Letters, 2012, 541, 92-95.	2.6	5

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127	Enhanced magnetism of SiC with He defects. Physics Letters, Section A: General, Atomic and Solid State Physics, 2012, 376, 3363-3367.	2.1	4
128	Isotopic dependence of nuclear temperatures. Physical Review C, 2011, 84, .	2.9	35
129	Density functional study on helium and hydrogen interstitials in silicon carbide. Nuclear Instruments & Methods in Physics Research B, 2011, 269, 2067-2074.	1.4	15
130	Odd-even effect in heavy-ion collisions at intermediate energies. Physical Review C, 2011, 83, .	2.9	45
131	Effect of shell structure in the fusion reactions. European Physical Journal A, 2010, 43, 67.	2.5	1
132	Nuclear symmetry energy at subnormal densities from measured nuclear masses. Physical Review C, 2010, 82, .	2.9	74
133	Investigation of discrete $\hat{I}^3$ radiation in interactions of 14.9-MeV neutrons with natural silicon by a total $\hat{I}^3$ -radiation measurement technique. Physical Review C, 2010, 82, .	2.9	2
134	Genuine tripartite entanglement in quantum brachistochrone evolution of a three-qubit system. Physical Review A, 2009, 80, .	2.5	12
135	Dynamical analysis on heavy-ion fusion reactions near Coulomb barrier. Nuclear Physics A, 2008, 802, 91-106.	1.5	51
136	Fragmentation cross sections of $^{20}\text{Ne}$ collisions with different targets at 600 MeV/nucleon. Nuclear Physics A, 2008, 807, 71-78.	1.5	14
137	SHELL CORRECTION ENERGY AND THE ENTRANCE CHANNEL EFFECT ON THE FORMATION OF SUPERHEAVY NUCLEI. International Journal of Modern Physics E, 2008, 17, 80-96.	1.0	3
138	FRAGMENTATION CROSS SECTIONS IN HEAVY ION COLLISIONS. International Journal of Modern Physics E, 2008, 17, 1927-1936.	1.0	1
139	ISOSPIN EFFECTS OF THRESHOLD ENERGY OF RADIAL FLOW IN HEAVY ION COLLISIONS. International Journal of Modern Physics E, 2008, 17, 1865-1874.	1.0	4
140	Improved isospin dependent quantum molecular dynamics model and its application to fusion reactions near Coulomb barrier. Nuclear Physics A, 2005, 750, 232-244.	1.5	35
141	Isospin dependent Pauli blocking and nucleon mean free path in isospin-asymmetric nuclear matter. Physical Review C, 2001, 64, .	2.9	12
142	Isospin effects on squeeze-out flow in heavy-ion collisions. European Physical Journal A, 2000, 9, 149-152.	2.5	10
143	Isospin effects on rotational flow in intermediate energy heavy ion collisions. Physical Review C, 2000, 61, .	2.9	14
144	Isospin dependence of nuclear multifragmentation in $^{112}\text{Sn}+^{112}\text{Sn}$ and $^{124}\text{Sn}+^{124}\text{Sn}$ collisions at 40 MeV/nucleon. Physical Review C, 1999, 60, .	2.9	57

#	ARTICLE	IF	CITATIONS
145	Isospin dependence of radial flow in heavy-ion collisions at intermediate energies. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1999, 459, 21-26.	4.1	22
146	Phase transitions, correlations and fluctuations of nuclear multifragmentation. Zeitschrift für Physik A, 1996, 356, 163-170.	0.9	14
147	Analysis of multifragmentation in a Boltzmann-Langevin approach. Physical Review C, 1995, 51, 3201-3210.	2.9	32
148	On transient effects in violent nuclear collisions. Nuclear Physics A, 1994, 580, 323-334.	1.5	8
149	Boltzmann-Langevin equation, dynamical instability and multifragmentation. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1993, 319, 35-40.	4.1	23
150	Dynamical fluctuations in fragmentation reactions in a Boltzmann-Langevin approach. Communications in Theoretical Physics, 0, , .	2.5	0