

Yong-tao Zhao

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

132
papers

677
citations

13
h-index

19
g-index

141
ext. papers

809
ext. citations

2.1
avg, IF

3.7
L-index

#	Paper	IF	Citations
132	Te L-shell X-ray production cross section induced by lower energy H ⁺ and He ²⁺ ions. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2022 , 511, 42-50	1.2	0
131	In situ ions energy spectrum measurement using a diamond detector in laser-accelerated ions-plasma interaction. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2022 , 1026, 166191	1.2	
130	Confinement of intense proton beams by an applied axial magnetic field in large-scale plasma. <i>Physics of Plasmas</i> , 2022 , 29, 022303	2.1	
129	Multiple ionization of iodine for 2.5-5.0 MeV I ions impacting on Fe target.. <i>Scientific Reports</i> , 2022 , 12, 6253	4.9	
128	Traversing of fast electrons in dense plasmas with dynamical screening. <i>Physics of Plasmas</i> , 2022 , 29, 052706	2.1	
127	Simulation study of coupled two-stream and current filamentation instability excited by accelerator electron beams in plasmas. <i>Physics of Plasmas</i> , 2022 , 29, 052101	2.1	1
126	W L-shell X-ray emission induced by C ⁶⁺ ions with several hundred MeV/u. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2022 , 71, 113201	0.6	
125	Laboratory Observation of C and O Emission Lines of the White Dwarf H1504+65-like Atmosphere Model. <i>Astrophysical Journal</i> , 2021 , 920, 106	4.7	0
124	Benchmark Experiment to Prove the Role of Projectile Excited States Upon the Ion Stopping in Plasmas. <i>Physical Review Letters</i> , 2021 , 126, 115001	7.4	10
123	Experimental and numerical investigations of the characteristics of electron density in O ₂ /Ar pulsed planar-coil-driven inductively coupled plasmas. <i>Physics of Plasmas</i> , 2021 , 28, 053510	2.1	
122	Mg K-shell x-ray emission induced by various ions. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2021 , 496, 78-83	1.2	1
121	Collective energy-spectrum broadening of a proton beam in a gas-discharge plasma. <i>Physical Review E</i> , 2021 , 103, 063216	2.4	2
120	Two-dimensional spatial distribution and production mechanism of H ⁺ ions in cylindrical inductively coupled H ₂ discharges. <i>Physics of Plasmas</i> , 2021 , 28, 073512	2.1	2
119	X-ray emission for Ar ¹¹⁺ ions impacting on various targets in the collisions near the Bohr velocity*. <i>Chinese Physics B</i> , 2021 , 30, 083201	1.2	1
118	Energy Dependency of Proton-Induced Outer-Shell Multiple Ionization for ⁴⁸ Cd and ⁴⁹ In. <i>Laser and Particle Beams</i> , 2021 , 2021, 1-7	0.9	0
117	Electron-accepting carborane viologen and iron based-supramolecular polymers for electrochromism and enhanced photocatalytic hydrogen evolution. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 16326-16332	7.1	9
116	Projectile energy dependence of L X-ray emission in collisions of Xe ²³⁺ with In target: role of Coulomb ionization and quasi-molecular effects. <i>Laser and Particle Beams</i> , 2020 , 38, 148-151	0.9	

115	Transport of intense particle beams in large-scale plasmas. <i>Physical Review E</i> , 2020 , 101, 051203	2.4	5
114	Gamma-ray beam produced by a plasma lens focused electron bunch. <i>Physics of Plasmas</i> , 2020 , 27, 023103	1	1
113	Simulations of transmission of 1 MeV protons through an insulating macrocapillary. <i>Journal Physics D: Applied Physics</i> , 2020 , 53, 075103	3	3
112	Numerical investigation of ion energy and angular distributions in a dc-biased H ₂ inductively coupled discharge. <i>Physics of Plasmas</i> , 2020 , 27, 093512	2.1	1
111	Charge state distribution and energy loss for 100 keV protons moving in discharge H plasmas. <i>Physics of Plasmas</i> , 2020 , 27, 093107	2.1	1
110	Observation of a high degree of stopping for laser-accelerated intense proton beams in dense ionized matter. <i>Nature Communications</i> , 2020 , 11, 5157	17.4	16
109	Generation of highly-polarized high-energy brilliant Brays via laser-plasma interaction. <i>Matter and Radiation at Extremes</i> , 2020 , 5, 054402	4.7	12
108	Modulation of ion beams in two-component plasmas: Three-dimensional particle-in-cell simulation. <i>Physics of Plasmas</i> , 2019 , 26, 093104	2.1	1
107	Determining the carrier-envelope phase of relativistic laser pulses via electron-momentum distribution. <i>Physical Review A</i> , 2019 , 99,	2.6	2
106	Imprint of the stochastic nature of photon emission by electrons on the proton energy spectra in the laser-plasma interaction. <i>Plasma Physics and Controlled Fusion</i> , 2019 , 61, 084010	2	2
105	Experimental and theoretical study of valence electronic structure of tetrabromomethane by (e,2e) electron momentum spectroscopy. <i>Physical Review A</i> , 2019 , 99,	2.6	2
104	Multiple ionization state of Ar ions during collisions near the Bohr velocity. <i>Scientific Reports</i> , 2019 , 9, 5359	4.9	3
103	Warm-Dense-Matter State of Iron Generated by Intense Heavy-Ion Beams. <i>IEEE Transactions on Plasma Science</i> , 2019 , 47, 853-857	1.3	1
102	Effects of resistive magnetic instability and electron refluxing on fast electron dynamics and bremsstrahlung radiation characteristics in relativistic laser-solid interaction. <i>Plasma Physics and Controlled Fusion</i> , 2019 , 61, 095016	2	0
101	Particle-in-cell simulation of transport and energy deposition of intense proton beams in solid-state materials. <i>Physical Review E</i> , 2019 , 100, 013208	2.4	9
100	Observation of strong relativistic and distorted-wave effects in (e,2e) electron-momentum spectroscopy of mercury. <i>Physical Review A</i> , 2019 , 99,	2.6	2
99	Visualizing the melting processes in ultrashort intense laser triggered gold mesh with high energy electron radiography. <i>Matter and Radiation at Extremes</i> , 2019 , 4, 065402	4.7	2
98	Warm dense matter research at HIAF. <i>Matter and Radiation at Extremes</i> , 2018 , 3, 85-93	4.7	12

97	L X-ray production in ionization of 48 Cd and 49 In by 75050 keV protons. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2018 , 416, 94-101	1.2	5
96	Accelerator-driven high-energy-density physics: Status and chances. <i>Contributions To Plasma Physics</i> , 2018 , 58, 82-92	1.4	6
95	Areal density and spatial resolution of high energy electron radiography. <i>Chinese Physics B</i> , 2018 , 27, 035202	1.2	2
94	Review of stopping power and Coulomb explosion for molecular ion in plasmas. <i>Matter and Radiation at Extremes</i> , 2018 , 3, 67-77	4.7	11
93	In-Situ Electrochemical Corrosion Behavior of Nickel-Base 718 Alloy Under Various CO ₂ Partial Pressures at 150 and 205 °C in NaCl Solution. <i>Metals and Materials International</i> , 2018 , 24, 752-760	2.4	2
92	Intense heavy ion beam-induced material evaporation and the resulting dynamic vacuum deterioration of the beam line. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2018 , 429, 48-52	1.2	2
91	Dynamic effects in electron momentum spectroscopy of sulfur hexafluoride. <i>Physical Review A</i> , 2018 , 97,	2.6	7
90	Relationship of Oil Composition and Lubricating Characteristics in Cold Rolling Aluminum Strips. <i>Lecture Notes in Mechanical Engineering</i> , 2018 , 697-703	0.4	
89	Damaging Intermolecular Energy and Proton Transfer Processes in Alpha-Particle-Irradiated Hydrogen-Bonded Systems. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 17023-17027	16.4	18
88	Two dimensional hydrodynamic simulations of metal targets under irradiation of intense proton beams: Effects of target materials. <i>Physics of Plasmas</i> , 2018 , 25, 113108	2.1	4
87	Electron-angular-distribution reshaping in the quantum radiation-dominated regime. <i>Physical Review A</i> , 2018 , 98,	2.6	5
86	Charge state effect on K-shell ionization of silicon induced by iodine ^{q+} ions. <i>European Physical Journal D</i> , 2018 , 72, 1	1.3	2
85	The correlation effects on the wake field and stopping power for two ion-beam pulses moving in a background plasma. <i>Physics of Plasmas</i> , 2018 , 25, 093107	2.1	
84	Modulation of proton beams by relativistic electron beam-plasma instability. <i>Physics of Plasmas</i> , 2018 , 25, 102104	2.1	1
83	Composition design, phase transitions of a new polycrystalline Ni-Cr-Co-W base superalloy and its isothermal oxidation dynamics behaviors at 1300 °C. <i>Materials and Design</i> , 2017 , 129, 26-33	8.1	12
82	X-ray and kinetic electron emission by keV proton impacting on fusion-relevant tungsten. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2017 , 406, 491-495	1.2	2
81	L x-ray production in ionization of 60 Nd by 100050 keV protons. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2017 , 408, 140-145	1.2	6
80	Hydrodynamic response of solid target heated by heavy ion beams from future facility HIAF. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2017 , 406, 703-707	1.2	6

79	Visible light emission induced by Krq+ (4 \leq Q) ions colliding with the Cu surface. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2017 , 406, 529-532	1.2	1
78	Temperature and energy effects on secondary electron emission from SiC ceramics induced by Xe ions. <i>Scientific Reports</i> , 2017 , 7, 6482	4.9	2
77	Double-ring structure formation of intense ion beams with finite radius in a pre-formed plasma. <i>Physics of Plasmas</i> , 2017 , 24, 123103	2.1	5
76	Determination of Hydrogen Density by Swift Heavy Ions. <i>Physical Review Letters</i> , 2017 , 119, 204801	7.4	17
75	Simulations of guiding of low-energy ions through a single nanocapillary in insulating materials. <i>Chinese Physics B</i> , 2017 , 26, 106104	1.2	1
74	Influence of Bi ³⁺ content on photoluminescence of InNbO ₄ :Eu ³⁺ ,Bi ³⁺ for white light-emitting diodes. <i>Materials Science-Poland</i> , 2017 , 35, 435-439	0.6	2
73	Raman spectroscopy of graphene irradiated with highly charged ions. <i>Surface and Coatings Technology</i> , 2016 , 306, 171-175	4.4	11
72	Ablation driven by hot electrons in shock ignition. <i>Journal of Physics: Conference Series</i> , 2016 , 688, 012083	3.3	3
71	High energy density physics with intense ion beams. <i>Matter and Radiation at Extremes</i> , 2016 , 1, 28-47	4.7	62
70	K-shell X-ray production in Silicon (Z ₂ = 14) by (1 \leq Z ₁ \leq 53) slow ions. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2016 , 370, 10-13	1.2	4
69	X-ray emission from 424-MeV/u C ions impacting on selected target. <i>Chinese Physics B</i> , 2016 , 25, 023402	1.2	5
68	Beam Velocity and Density Influences on Ion-Beam Pulses Moving in Magnetized Plasmas. <i>IEEE Transactions on Plasma Science</i> , 2016 , 44, 1405-1410	1.3	3
67	Rydberg-to-M-shell x-ray emission of hollow Xe ^{q+} (q=27-30) atoms or ions above metallic surfaces. <i>Physical Review A</i> , 2015 , 91,	2.6	3
66	Double-peak structures in transmission of H ₂ ⁺ ions through conical multicapillaries in a polymer: Projectile-energy dependence. <i>Physical Review A</i> , 2015 , 91,	2.6	4
65	Ionization of highly charged iodine ions near the Bohr velocity. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2015 , 342, 133-136	1.2	5
64	Luminescence properties of novel red-emitting phosphor InNb _{1-x} PxO ₄ :Eu ³⁺ for white light emitting-diodes. <i>Materials Science-Poland</i> , 2015 , 33, 331-334	0.6	2
63	Charge-state dependence of inner-shell processes in collisions between highly charged Xe ions and solids at intermediate energies. <i>Physical Review A</i> , 2015 , 92,	2.6	5
62	Hillock formation on CaF ₂ , Al ₂ O ₃ , c-SiO ₂ and MgO single crystal surfaces by ion impact - From potential energy deposition to electronic energy loss. <i>Journal of Physics: Conference Series</i> , 2015 , 635, 032005	0.3	3

61	Analytical model for describing ion guiding through capillaries in insulating polymers. <i>Chinese Physics B</i> , 2015 , 24, 086104	1.2	
60	Energy deposition by heavy ions: additivity of kinetic and potential energy contributions in hillock formation on CaF ₂ . <i>Scientific Reports</i> , 2014 , 4, 5742	4.9	24
59	Effects of multiple ionization on total L X-ray emission by proton impact. <i>Journal of Physics: Conference Series</i> , 2014 , 488, 132035	0.3	2
58	Energy dependence of H ₂ ⁺ ions guided through tapered capillaries in PC. <i>Journal of Physics: Conference Series</i> , 2014 , 488, 132044	0.3	
57	Electron emission from tungsten surface induced by neon ions. <i>Journal of Physics: Conference Series</i> , 2014 , 488, 132032	0.3	
56	Cross-sections of single & double electron capture in the interaction of highly charged ions with N ₂ gas. <i>Journal of Physics: Conference Series</i> , 2014 , 488, 082008	0.3	1
55	Fluorescence emission from CsI(Tl) crystals induced by high-energy heavy ions. <i>Journal of Physics: Conference Series</i> , 2014 , 488, 132037	0.3	
54	Potential sputtering on SiO ₂ and Au induced by highly charged ions impact. <i>Journal of Physics: Conference Series</i> , 2014 , 488, 132039	0.3	1
53	Transmission of 200 keV H ₂ ⁺ ions through Tapered Capillaries in PC. <i>Journal of Physics: Conference Series</i> , 2014 , 488, 132041	0.3	
52	Study on the electron configuration and the average equilibrium charge-state of highly charged Kr ¹³⁺ ion. <i>Journal of Physics: Conference Series</i> , 2014 , 488, 132034	0.3	
51	Charge state effect on Si K X-ray emission induced by I _q ⁺ ions impacting. <i>Journal of Physics: Conference Series</i> , 2014 , 488, 132038	0.3	
50	High energy density physics research at IMP, Lanzhou, China. <i>High Power Laser Science and Engineering</i> , 2014 , 2,	4.3	13
49	Radiative transitions of excited ions moving slowly in plasmas. <i>Physics of Plasmas</i> , 2014 , 21, 122113	2.1	9
48	Study of the slow ion beam penetrating the low density plasma target. <i>Journal of Physics: Conference Series</i> , 2014 , 488, 092005	0.3	1
47	Secondary Electron Emission from Carbon Foils under O ₂ ⁺ Ion Impact. <i>Journal of Physics: Conference Series</i> , 2014 , 488, 132045	0.3	
46	Ionization of Ar ¹¹⁺ ions during collisions near the Bohr velocity. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2014 , 340, 11-14	1.2	4
45	Heavy-ion radiography facility at the Institute of Modern Physics. <i>Laser and Particle Beams</i> , 2014 , 32, 651-655	0.9	11
44	Anisotropic deformation of Au nanoparticles by highly charged ion Xe ²¹⁺ irradiation. <i>Physica Scripta</i> , 2013 , T156, 014064	2.6	0

43	Energy levels of a heavy ion moving in dense plasmas. <i>Physics of Plasmas</i> , 2013 , 20, 122110	2.1	6
42	L-subshell X-ray intensity ratio of Xenon for 6 MeV Xe ²⁰⁺ impact on selected targets. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2013 , 304, 32-35	1.2	5
41	K and L-shell X-ray production cross sections for 50-50 keV proton impact on elements with Z = 26-30. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2013 , 299, 61-67	1.2	33
40	Electron emission and surface etching by slow and medium highly charged ions on HOPG surface. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2013 , 317, 33-36	1.2	7
39	K-shell ionization of Al induced by ions near the threshold energy. <i>Physica Scripta</i> , 2013 , T156, 014029	2.6	3
38	Kr L X-ray and Au M X-ray emission for 1.5 MeV-9 MeV Kr ¹³⁺ ions impacting on an Au target. <i>Chinese Physics B</i> , 2013 , 22, 103403	1.2	3
37	Target Z dependence of Xe L x-ray emission in heavy ion-atom collision near the Bohr velocity: influence of level matching. <i>Physica Scripta</i> , 2013 , T156, 014036	2.6	3
36	A study of highly charged ions interacting with a plasma target at the Institute of Modern Physics. <i>Physica Scripta</i> , 2013 , T156, 014074	2.6	4
35	Charge state effect on the K-shell ionization of iron by xenon ions near the Bohr velocity. <i>Chinese Physics B</i> , 2013 , 22, 113402	1.2	6
34	Al K-shell x-ray production cross section induced by proton and highly charged heavy ions. <i>Physica Scripta</i> , 2013 , 87, 055301	2.6	5
33	Energy dependence of highly charged ions guided through nanocapillaries in polycarbonate. <i>Physica Scripta</i> , 2013 , T156, 014060	2.6	
32	Modulation of continuous ion beams with low drift velocity by induced wakefield in background plasmas. <i>Laser and Particle Beams</i> , 2013 , 31, 135-140	0.9	8
31	Multiple ionization effects in M X-ray emission induced by heavy ions. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2012 , 376, 1197-1200	2.3	17
30	Ablation driven by hot electrons generated during the ignitor laser pulse in shock ignition. <i>Physics of Plasmas</i> , 2012 , 19, 122705	2.1	13
29	Creation of nanodots on mica surfaces induced by highly charged xenon ions. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2012 , 286, 299-302	1.2	10
28	Charge effect in secondary electron emission from silicon surface induced by slow neon ions. <i>Laser and Particle Beams</i> , 2012 , 30, 319-324	0.9	7
27	Two-dimensional quantum hydrodynamic model for the heating of a solid target using a Gaussian cluster. <i>Laser and Particle Beams</i> , 2012 , 30, 671-677	0.9	2
26	Trends in heavy ion interaction with plasma. <i>Laser and Particle Beams</i> , 2012 , 30, 679-706	0.9	21

25	X-ray emission induced by 1.2B.6 MeV Kr13+ ions. <i>Laser and Particle Beams</i> , 2012 , 30, 665-670	0.9	7
24	Contribution from recoiling atoms in secondary electron emission induced by slow highly charged ions from tungsten surface. <i>Laser and Particle Beams</i> , 2012 , 30, 707-711	0.9	4
23	Guided transmission of xenon ions through single nanohole in PC foil. <i>Journal of Physics: Conference Series</i> , 2012 , 388, 132032	0.3	
22	A study of highly charged ions transmission through polycarbonate nanocapillaries with multi-holes. <i>Physica Scripta</i> , 2011 , T144, 014046	2.6	3
21	Electron emission by highly charged neon and xenon ions on fusion-relevant tungsten and graphite surfaces. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2011 , 269, 977-980	1.2	7
20	X-ray emission of Xe30+ ion beam impacting on Au target. <i>Laser and Particle Beams</i> , 2011 , 29, 265-268	0.9	15
19	Potential and Kinetic Electron Emissions from HOPG Surface Irradiated by Highly Charged Xenon and Neon Ions. <i>Chinese Physics Letters</i> , 2011 , 28, 053402	1.8	4
18	Study of a magnetic alloy-loaded RF cavity for bunch compression at the CSR. <i>Chinese Physics C</i> , 2010 , 34, 1879-1882	2.2	
17	HIGH ENERGY DENSITY PHYSICS WITH INTENSE PARTICLE AND LASER BEAMS. <i>International Journal of Modern Physics E</i> , 2009 , 18, 381-391	0.7	5
16	X-RAY EMISSION FROM THE METASTABLE COMPONENTS OF SLOW Ar16+ BEAM ON METALLIC SURFACES. <i>Surface Review and Letters</i> , 2009 , 16, 463-467	1.1	2
15	An outlook of heavy ion driven plasma research at IMP-Lanzhou. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2009 , 267, 163-166	1.2	23
14	Size modification of Au nanoparticles induced by slow highly charged ions 40Arq+ irradiation. <i>Journal of Non-Crystalline Solids</i> , 2009 , 355, 1439-1443	3.9	7
13	Guided transmission of xenon ions through nanocapillaries in PC foils. <i>Journal of Physics: Conference Series</i> , 2009 , 194, 132032	0.3	2
12	Surface nanostructure formation by the interaction of slow xenon ions on HOPG surfaces. <i>Journal of Physics: Conference Series</i> , 2009 , 163, 012082	0.3	3
11	X-ray spectra induced by 129Xe _q ⁺ impacting the metal surface 2008 , 51, 82-89		1
10	Kinetic energy and charge state effects in the X-ray emission of Mo surface induced by Xe _q ⁺ (q = 25, 29) ions 2008 , 51, 1240-1244		1
9	X-ray emission of hollow atoms formed by highly charged argon and xenon ions below a beryllium surface. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2007 , 258, 121-124	1.2	12
8	Separation of potential and kinetic electron emission from Si and W induced by multiply charged neon and argon ions. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2007 , 265, 474-478	1.2	13

7	K-shell ionization cross section of aluminium induced by low-energy highly charged argon ions. <i>European Physical Journal D</i> , 2007 , 41, 281-286	1.3	8
6	X-ray spectra induced in highly charged 40Ar ^{q+} interacting with Au surface 2006 , 49, 203-212		2
5	X-ray spectroscopy of hollow argon atoms formed on a beryllium surface. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2006 , 245, 72-75	1.2	11
4	X-RAYS EMISSION OF HYDROGEN-LIKE AND HELIUM-LIKE ARGON IN INTERACTION WITH Mo METALLIC SURFACE. <i>International Journal of Modern Physics B</i> , 2005 , 19, 2433-2437	1.1	
3	THRESHOLD KINETIC ENERGY FOR GOLD X-RAY EMISSION INDUCED BY HIGHLY CHARGED IONS. <i>International Journal of Modern Physics B</i> , 2005 , 19, 2486-2490	1.1	2
2	INTERACTION OF HIGHLY CHARGED Xe ^{q+} (q = 26, 27, 30) IONS WITH MOLYBDENUM SURFACE. <i>International Journal of Modern Physics B</i> , 2005 , 19, 2443-2451	1.1	2
1	PLASMON-ASSISTED VISIBLE LIGHT EMISSION IN THE INTERACTION OF HIGHLY CHARGED IONS WITH SURFACES. <i>International Journal of Modern Physics B</i> , 2005 , 19, 2491-2495	1.1	1