Xiaolong Zhu

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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.

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papers543
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#	Paper	IF	Citations
109	Electron emission from single-electron capture with simultaneous single-ionization reactions in 30-keV/u He2+-on-argon collisions. <i>Physical Review A</i> , 2011 , 83,	2.6	44
108	Observation of interatomic Coulombic decay and electron-transfer-mediated decay in high-energy electron-impact ionization of Ar2. <i>Physical Review A</i> , 2013 , 88,	2.6	26
107	HIAF: New opportunities for atomic physics with highly charged heavy ions. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2017 , 408, 169-173	1.2	24
106	Influence of Ambient Gas on Laser-Induced Breakdown Spectroscopy of Uranium Metal. <i>Plasma Science and Technology</i> , 2015 , 17, 971-974	1.5	22
105	Radiative-electron-capture-to-continuum cusp in U88++N2 collisions and the high-energy endpoint of electron-nucleus bremsstrahlung. <i>Physical Review A</i> , 2014 , 90,	2.6	21
104	A progress report of 320 kV multi-discipline research platform for highly charged ions. <i>Journal of Physics: Conference Series</i> , 2009 , 163, 012104	0.3	21
103	Investigation of ion-atom collision dynamics through imaging techniques 2008 , 51, 755-764		20
102	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
101	Electron-capture-to-continuum cusp in U88++N2 collisions. <i>Physical Review A</i> , 2015 , 91,	2.6	16
100	Electron-loss-to-continuum cusp in U88++N2 collisions. <i>Physical Review A</i> , 2014 , 90,	2.6	16
99	YAP:Ce and CsI(Tl) detectors for dielectronic recombination experiment at the CSRm. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2013 , 317, 731-733	1.2	15
98	Observation of two sequential pathways of (CO2)3+ dissociation by heavy-ion impact. <i>Physical Review A</i> , 2016 , 94,	2.6	15
97	Dielectronic and Trielectronic Recombination Rate Coefficients of Be-like Ar 14+. <i>Astrophysical Journal, Supplement Series</i> , 2018 , 235, 2	8	14
96	Dissociation of [HCCH] to H and C: a benchmark reaction involving H migration, H-H combination, and C-H bond cleavage. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 27725-27729	3.6	14
95	Dynamics of C2H23+-Þ+++++C2+ investigated by 50-keV/u Ne8+ impact. <i>Physical Review A</i> , 2018 , 97,	2.6	13
94	Study of dielectronic recombination at the CSRm using lithium-like Ar15+ions. <i>Physica Scripta</i> , 2015 , T166, 014023	2.6	12
93	State-selective electron capture in 30- and 100-keV He++He collisions. <i>Physical Review A</i> , 2017 , 95,	2.6	11

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92	Measurements of bremsstrahlung spectra of Lanzhou ECR Ion Source No. 3 (LECR3). <i>Review of Scientific Instruments</i> , 2006 , 77, 03A312	1.7	11
91	Interatomic relaxation processes induced in neon dimers by electron-impact ionization. <i>Physical Review A</i> , 2018 , 97,	2.6	10
90	Longitudinal dynamics of RF-bunched and electron-cooled ion beam at the CSRe. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2014 , 736, 75-80	1.2	10
89	Determining excitation temperature of fragmented C60 via momentum distributions of fragments. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 3328-33	3.6	9
88	Kinetic energies of . Chemical Physics Letters, 2009, 470, 215-218	2.5	9
87	Dissociation mechanisms of the Ar trimer induced by a third atom in high-energy electron-impact ionization. <i>Physical Review A</i> , 2014 , 89,	2.6	8
86	Angular- and state-selective differential cross sections for single-electron capture in p-He collisions at intermediate energies. <i>Physical Review A</i> , 2012 , 86,	2.6	8
85	Evidence of strong projectiletarget-core interaction in single ionization of neon by electron impact. <i>Physical Review A</i> , 2010 , 82,	2.6	8
84	ElectronIbn Recombination Rate Coefficients of Be-like 40Ca16+. Astrophysical Journal, 2018, 862, 134	4.7	7
83	Signatures of the projectile electronEarget core elastic scattering in Ar (e, 2e) reactions at low and intermediate impact energies. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2011 , 44, 0552	2023	7
82	Dielectronic recombination experiments at the storage rings: From the present CSR to the future HIAF. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2017 , 408, 135-139	1.2	6
81	Breakdown of the Coulomb-explosion imaging technique induced by the ultrafast rotation of fragments. <i>Physical Review A</i> , 2020 , 101,	2.6	6
80	Observation of atomic-size Fraunhofer-type diffraction for single electron capture in He2++ He collision. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2012 , 45, 025202	1.3	6
79	Regime change and transitional regime behavior of C60 molecular beams. <i>Chemical Physics Letters</i> , 2018 , 691, 110-113	2.5	6
78	Probing scattering phases via two-center interferences in collisions of He2+ on CO. <i>Physical Review A</i> , 2018 , 97,	2.6	5
77	Measurement of the lifetime and the proportion of 12C3+ ions in stored relativistic ion beams as a preparation for laser cooling experiments at the CSRe. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2017 , 408, 280-284	1.2	5
76	(e,2e) processes on atomic targets (Ne, Ar) and molecular targets (CH4, N2, CO2): Role of electron-nucleus scattering. <i>Physical Review A</i> , 2012 , 86,	2.6	5
75	Multistage transformation and charge effect during the fragmentation phase transition in atomic clusters. <i>Physical Review A</i> , 2013 , 87,	2.6	5

74	High negative ion production yield in 30 keV F2++ adenine (C5H5N5) collisions. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2009 , 42, 075204	1.3	5
73	ATOMIC PHYSICS RESEARCHES AT COOLER STORAGE RING IN LANZHOU. <i>International Journal of Modern Physics E</i> , 2009 , 18, 373-380	0.7	5
72	The many-particle scattering system He++ on He: Experiment and a complete unified description. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2007 , 369, 85-89	2.3	5
71	Single-electron capture in 3-keV/u Ar8+-He collisions. <i>Physical Review A</i> , 2017 , 95,	2.6	4
70	Two-body fragmentation dynamics of N2Oq+ (q=2,3) induced by electron-capture collisions with 5.7 leV/uXe15+. <i>Physical Review A</i> , 2019 , 99,	2.6	4
69	Two-body dissociation of CH isomers investigated by 50 keV/u Ne impact. <i>Journal of Chemical Physics</i> , 2019 , 150, 144311	3.9	4
68	Time-resolved photoion imaging spectroscopy: Determining energy distribution in multiphoton absorption experiments. <i>Journal of Chemical Physics</i> , 2018 , 148, 134303	3.9	4
67	Probing the geometry of Ar 2 N 2 cluster by 1 MeV Ne 8+ ions. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2017 , 408, 42-45	1.2	3
66	Laser cooling and precision laser spectroscopy of highly charged ions at the storage ring CSRe and the future HIAF. <i>Hyperfine Interactions</i> , 2019 , 240, 1	0.8	3
65	Four-body Coulomb explosion of acetylene in collision with highly charged ions. <i>Physical Review A</i> , 2020 , 101,	2.6	3
64	Two-electron transfer and ionization mechanism in 80-keV/u Ne8+ on He collisions. <i>Physical Review A</i> , 2016 , 93,	2.6	3
63	Picturing electron capture to the continuum in the transfer ionization of intermediate-energy He2+ collisions with argon. <i>Physical Review A</i> , 2013 , 87,	2.6	3
62	Properties and applications of cold supersonic gas jet 2006 , 49, 709-715		3
61	A compact, flexible low energy experimental platform of highly charged ions for atomic physics experiments. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2019 , 460, 224-229	1.2	3
60	Delayed fragmentation of propyne and allene in collisions with highly charged ions. <i>Physical Review A</i> , 2020 , 102,	2.6	2
59	Three-body fragmentation dynamics of CH2CCH23+ investigated by 50-keV/u Ne8+ impact. <i>Physical Review A</i> , 2020 , 101,	2.6	2
58	Heavy N ion transfer in doubly charged NAr van der Waals cluster. <i>Nature Communications</i> , 2020 , 11, 2987	17.4	2
57	Measurement of the ratio of C 3+ and O 4+ ions produced by ECRIS to prepare a laser cooling experiment at storage rings. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment,</i> 2014 , 764, 232-235	1.2	2

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56	New insight into power-law behavior of fragment size distributions in the Clmultifragmentation regime. <i>Journal of Chemical Physics</i> , 2014 , 141, 054307	3.9	2
55	Preparations for laser cooling of relativistic heavy-ion beams at the CSRe. <i>Physica Scripta</i> , 2013 , T156, 014090	2.6	2
54	Differential investigations of charge transfer processes in low energy ion-atom/molecule collisions. <i>Journal of Physics: Conference Series</i> , 2007 , 88, 012019	0.3	2
53	Dielectronic recombination at low energy range with Boron-like Ar13+at the CSRm. <i>X-Ray Spectrometry</i> , 2020 , 49, 155-159	0.9	2
52	Measurement of n-resolved State-selective Charge Exchange in Ne(8,9)+ Collision with He and H2. <i>Astrophysical Journal, Supplement Series</i> , 2021 , 253, 13	8	2
51	Longitudinal modulation of electron-cooled 12C6+ and 16O8+ ion beams at heavy ion storage ring CSRe. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2018 , 908, 244-249	1.2	2
50	Fully differential study of few-body dynamics in multi-electron atomic fragmentation processes. Journal of Physics B: Atomic, Molecular and Optical Physics, 2017 , 50, 10LT01	1.3	1
49	Electron-ion recombination rate coefficients of carbon-like Ar12+. <i>Journal of Physics B: Atomic, Molecular and Optical Physics,</i> 2020 , 53, 085004	1.3	1
48	Dielectronic recombination of Be-like argon at the CSRm. <i>Journal of Physics: Conference Series</i> , 2017 , 875, 012020	0.3	1
47	Development of a single-particle detector for the dielectronic recombination experiment on HIRFL-CSRm. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment,</i> 2014 , 735, 552-556	1.2	1
46	Dielectronic recombination experiment of P-like Tin on HIRFL-CSRm at Lanzhou. <i>Journal of Physics:</i> Conference Series, 2014 , 488, 012055	0.3	1
45	RF-bunching of relativistic12C3+ion beam for laser cooling experiment at the CSRe. <i>Journal of Physics: Conference Series</i> , 2015 , 583, 012045	0.3	1
44	Projectile charge state effects on electron emission in transfer ionization processes. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2015 , 48, 144021	1.3	1
43	Experimental evidence of the target excitation in transfer ionization of He2+on argon collisions. <i>Physica Scripta</i> , 2013 , T156, 014030	2.6	1
42	Differential experimental investigation of electron capture for He2+on Helium at low energy. Journal of Physics: Conference Series, 2009, 163, 012064	0.3	1
41	Dissociation and fragmentation of N2 molecules by slow highly charged ions. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2005 , 235, 387-391	1.2	1
40	Absolute rate coefficients for dielectronic recombination of Na-like Kr25+. <i>Physical Review A</i> , 2020 , 102,	2.6	1
39	Prompt and delayed dissociation of N2O2+ induced by highly-charged-ion collisions. <i>Physical Review A</i> , 2021 , 103,	2.6	1

38	Damaging Intermolecular Energy and Proton Transfer Processes in Alpha-Particle-Irradiated Hydrogen-Bonded Systems. <i>Angewandte Chemie</i> , 2018 , 130, 17269-17273	3.6	1
37	Orientation effect in Ar dimer fragmentation by highly charged ion impact. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2018 , 51, 155204	1.3	1
36	State-selective electron capture in He+ + He collisions at intermediate energies. <i>Journal of Physics: Conference Series</i> , 2017 , 875, 092019	0.3	О
35	A beam profile monitor for picoampere low-energy ion beams. <i>Review of Scientific Instruments</i> , 2019 , 90, 076107	1.7	O
34	Optical detection system for laser cooling and precision laser spectroscopy of relativistic highly charged ions at the CSRe. <i>X-Ray Spectrometry</i> , 2020 , 49, 138-142	0.9	О
33	Frontiers of atomic physics with highly charged heavy ions at HIAF. <i>Journal of Physics: Conference Series</i> , 2017 , 875, 092021	0.3	
32	Direct evidence of Interatomic Coulombic Decay in electron impact ionization of Ne dimer. <i>Journal of Physics: Conference Series</i> , 2017 , 875, 062033	0.3	
31	Investigation of fragmentation dynamics of nitrogen dimers by collisions with highly charged ions. <i>Journal of Physics: Conference Series</i> , 2017 , 875, 102037	0.3	
30	Observation of the indirect (e, 3e) process of CO. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2018 , 51, 185203	1.3	
29	The target effect in transfer ionization in proton-helium and neon collisions at intermediate energies. <i>Journal of Physics: Conference Series</i> , 2014 , 488, 082017	0.3	
28	Analysis of ionic fragment size distribution in collision of nanosecond laser with the C60 molecule. Journal of Physics: Conference Series, 2014 , 488, 022043	0.3	
27	Dynamics of transfer ionization process inp-He collisions at intermediate energies. <i>Journal of Physics: Conference Series</i> , 2014 , 488, 082018	0.3	
26	Forward-angle electron spectroscopy in heavy-ion atom collisions studied at the ESR. <i>Journal of Physics: Conference Series</i> , 2015 , 635, 022005	0.3	
25	Kinematically complete experiment for ionization-excitation of helium. <i>Journal of Physics: Conference Series</i> , 2015 , 635, 052079	0.3	
24	Possible evidence for a liquid-gas phase transition in C60systems. <i>Journal of Physics: Conference Series</i> , 2015 , 635, 102013	0.3	
23	Origin of the sequential dissociation of (CO2)3+ by heavy ion impact. <i>Journal of Physics: Conference Series</i> , 2015 , 635, 032100	0.3	
22	The nucleus-nucleus scattering in transfer ionization of helium by He2+impact. <i>Journal of Physics: Conference Series</i> , 2015 , 635, 022077	0.3	
21	Experimental investigation of state selective single-electron capture in 120 keV Ar8+ - He collisions. Journal of Physics: Conference Series, 2015, 635, 022079	0.3	

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20	The fragmentation of neon dimer induced by low energy O6+ions. <i>Journal of Physics: Conference Series</i> , 2015 , 635, 032102	0.3
19	Progress of laser cooling of 12C3+ ions at the CSRe. <i>Journal of Physics: Conference Series</i> , 2015 , 635, 03	22080
18	Mutual ionization in atomic collisions near the electronic threshold. <i>Journal of Physics B: Atomic, Molecular and Optical Physics,</i> 2014 , 47, 105202	1.3
17	News from the CSR storage ring. <i>Journal of Physics: Conference Series</i> , 2009 , 194, 152004	0.3
16	Progress of dielectronic recombination experiment at CSRm. <i>Journal of Physics: Conference Series</i> , 2012 , 388, 062032	0.3
15	General overview of the strong projectile-target-core interaction in Ne (e, 2e) reaction. <i>Journal of Physics: Conference Series</i> , 2012 , 388, 042045	0.3
14	Observation of atomic-size Fraunhofer-type diffraction for single electron capture in He2++He collision. <i>Journal of Physics: Conference Series</i> , 2012 , 388, 082053	0.3
13	Analysis of momentum and energy resolutions of the reaction microscopes. <i>Journal of Physics:</i> Conference Series, 2012 , 388, 142008	0.3
12	Image of electron emission in He2+-He collisions at intermediate energies. <i>Journal of Physics: Conference Series</i> , 2012 , 388, 082022	0.3
11	State-selective electron capture by O3+ions on He and H2. <i>Journal of Physics: Conference Series</i> , 2012 , 388, 102014	0.3
10	Measuring phase transition temperature of fragmented C60. <i>Journal of Physics: Conference Series</i> , 2012 , 388, 022110	0.3
9	Experimental investigation of single capture with single ionization in 30keV/u He2+on argon collisions. <i>Journal of Physics: Conference Series</i> , 2012 , 388, 082006	0.3
8	Electron emitted in transfer ionization in He2+on helium collisions. <i>Journal of Physics: Conference Series</i> , 2009 , 185, 012007	0.3
7	Imaging the electrons from transfer ionization collisions. <i>Journal of Physics: Conference Series</i> , 2009 , 194, 082034	0.3
6	Recent progresses on atomic physics with highly charged ions in Lanzhou. <i>Journal of Physics:</i> Conference Series, 2009 , 185, 012024	0.3
5	State-selective single electron capture studied for C4+ions on H2at 40 keV. <i>Journal of Physics:</i> Conference Series, 2009 , 194, 102020	0.3
4	Two-center structure effects in collision between H2+and He. <i>Journal of Physics: Conference Series</i> , 2009 , 194, 102029	0.3
3	Electron transfer and multi-ionization in slow collisions of C60 with highly charged ions. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2005 , 235, 378-381	1.2

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State-selective single-electron capture in 30-keV N3+He collisions. X-Ray Spectrometry, 2020, 49, 85-89 0.9