

Alfred Muller

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2409111/publications.pdf>

Version: 2024-02-01

438
papers

9,615
citations

34105

52
h-index

76900

74
g-index

441
all docs

441
docs citations

441
times ranked

2029
citing authors

#	ARTICLE	IF	CITATIONS
1	Scaling of cross sections for multiple electron transfer to highly charged ions colliding with atoms and molecules. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1977, 62, 391-394.	2.1	181
2	Electron-ion collisions: Fundamental processes in the focus of applied research. <i>Advances in Atomic, Molecular and Optical Physics</i> , 2008, , 293-417.	2.3	146
3	High-resolution measurement of dielectronic recombination of lithiumlike Cu^{26+} . <i>Physical Review A</i> , 1992, 46, 5730-5740.	2.5	139
4	An unexpectedly low oscillator strength as the origin of the Fe XVII emission problem. <i>Nature</i> , 2012, 492, 225-228.	27.8	133
5	Precise Determination of the $2s_{1/2} - 2p_{1/2}$ Splitting in Very Heavy Lithiumlike Ions Utilizing Dielectronic Recombination. <i>Physical Review Letters</i> , 2003, 91, 073202.	7.8	131
6	Photoexcitation of a Volume Plasmon in C_{60} Ions. <i>Physical Review Letters</i> , 2005, 94, 065503.	7.8	131
7	Dielectronic recombination of hydrogenlike oxygen in a heavy-ion storage ring. <i>Physical Review Letters</i> , 1990, 64, 737-740.	7.8	126
8	Development of single-particle detectors for keV ions. <i>Review of Scientific Instruments</i> , 1982, 53, 829-837.	1.3	123
9	Confinement Resonances in Photoionization of Xe . <i>Physical Review Letters</i> , 2010, 105, 213001.	7.8	114
10	Field effects on the Rydberg product-state distribution from dielectronic recombination. <i>Physical Review Letters</i> , 1986, 56, 127-130.	7.8	109
11	Isotope Shift in the Dielectronic Recombination of Three-Electron Nd . <i>Physical Review Letters</i> , 2008, 100, 073201.	7.8	102
12	Storage Ring Measurement of the CIV Recombination Rate Coefficient. <i>Astrophysical Journal</i> , 2001, 555, 1027-1037.	4.5	101
13	Storage ring at HIE-ISOLDE. <i>European Physical Journal: Special Topics</i> , 2012, 207, 1-117.	2.6	101
14	Physics book: CRYRING@ESR. <i>European Physical Journal: Special Topics</i> , 2016, 225, 797-882.	2.6	101
15	Influence of Magnetic Fields on Electron-Ion Recombination at Very Low Energies. <i>Physical Review Letters</i> , 2000, 84, 4822-4825.	7.8	98
16	Merged-beams experiments in atomic and molecular physics. <i>Reports on Progress in Physics</i> , 1999, 62, 1143-1180.	20.1	97
17	Correlated two-electron transitions in electron-impact ionization of Li ⁺ ions. <i>Physical Review Letters</i> , 1989, 63, 758-761.	7.8	94
18	Resonances in Electron-Impact Single, Double, and Triple Ionization of Heavy Metal ions. <i>Physical Review Letters</i> , 1988, 61, 70-73.	7.8	90

#	ARTICLE	IF	CITATIONS
19	Absolute ionisation cross sections for electrons incident on O ⁺ , Ne ⁺ , Xe ⁺ and Ar ⁱ⁺ (i=1,...,5) ions. Journal of Physics B: Atomic and Molecular Physics, 1980, 13, 1877-1899.	1.6	87
20	Dielectronic and radiative recombination of lithiumlike gold. Physical Review Letters, 1992, 69, 2768-2771.	7.8	86
21	Experimental cross sections for electron impact ionisation of hydrogen-like Li ²⁺ ions. Journal of Physics B: Atomic, Molecular and Optical Physics, 1989, 22, 531-540.	1.5	83
22	Indirect processes in the electron-impact ionization of Li-like ions. Zeitschrift für Physik D-Atoms Molecules and Clusters, 1990, 16, 113-127.	1.0	83
23	Electron capture processes of multiply charged argon ions in argon at energies from 10 to 90 keV. Journal of Physics B: Atomic and Molecular Physics, 1975, 8, 230-238.	1.6	82
24	Screened Radiative Corrections from Hyperfine-Split Dielectronic Resonances in Lithiumlike Scandium. Physical Review Letters, 2008, 100, 033001.	7.8	82
25	Experimental measurements of field effects on dielectronic recombination cross sections and Rydberg product-state distributions. Physical Review A, 1987, 36, 599-613.	2.5	77
26	Electron-Impact Ionization of Fe ¹⁵⁺ Ions: An Ion Storage Ring Cross Section Measurement. Physical Review Letters, 1995, 74, 4173-4176.	7.8	77
27	Electron capture by Li ⁱ⁺ (i=2,3), Ni ⁺ and Ne ⁱ⁺ (i=2,3,4,5) ions from atomic hydrogen. Journal of Physics B: Atomic and Molecular Physics, 1981, 14, 3475-3491.	1.6	76
28	Storage-Ring Measurement of the Hyperfine Induced Ti ¹⁸⁺ 4f(2s ² p ⁶ 3d ¹ 2s ² S ₀) Transition Rate. Physical Review Letters, 2007, 98, 033001.	7.8	75
29	Experimental cross sections for electron-impact ionization of iron ions: Fe ⁵⁺ , Fe ⁶⁺ , and Fe ⁹⁺ . Physical Review A, 1986, 34, 3657-3667.	2.5	74
30	Multiple-electron capture and ionization in collisions of highly stripped ions with Ar atoms. Physical Review A, 1986, 33, 3010-3017.	2.5	74
31	Probing confinement resonances by photoionizing Xe inside a C ₆₀ molecular cage. Physical Review A, 2013, 88, .	2.5	69
32	Prospects for an atomic parity-violation experiment in U ⁹⁰⁺ . Physical Review A, 1989, 40, 7362-7365.	2.5	68
33	Dielectronic recombination of xenonlike tungsten ions. Physical Review A, 2011, 83, .	2.5	67
34	Significant Redistribution of Ce _{4d} Oscillator Strength Observed in Photoionization of Endohedral Ce@C ₈₂ Ions. Physical Review Letters, 2008, 101, 133001.	7.8	66
35	Ionization of helium by highly charged ions at 1.4 MeV/amu. Physical Review A, 1987, 35, 2479-2483.	2.5	65
36	L-Shell Contributions to Multiple Ionization of Ar ⁱ⁺ Ions (i=1, 2, 3) by Electron Impact. Physical Review Letters, 1980, 44, 29-32.	7.8	64

#	ARTICLE	IF	CITATIONS
37	Dielectronic Capture with Subsequent Two-Electron Emission in Electron-Impact Ionization of C ³⁺ Ions. <i>Physical Review Letters</i> , 1988, 61, 1352-1355.	7.8	64
38	Dielectronic Recombination in Photoionized Gas: The Importance of Fine-structure Core Excitations. <i>Astrophysical Journal</i> , 1997, 489, L115-L118.	4.5	64
39	X-Ray Resonant Photoexcitation: Linewidths and Energies of $K\alpha_{\pm}$ Transitions in Highly Charged Fe Ions. <i>Physical Review Letters</i> , 2013, 111, 103002.	7.8	64
40	Observation of a Four-Electron Auger Process in Near-Edge Photoionization of Singly Charged Carbon Ions. <i>Physical Review Letters</i> , 2015, 114, 013002.	7.8	63
41	An improved crossed-beams technique for the measurement of absolute cross sections for electron impact ionisations of ions and its application to Ar ⁺ ions. <i>Journal of Physics B: Atomic and Molecular Physics</i> , 1985, 18, 2993-3009.	1.6	62
42	Dielectronic Recombination in Photoionized Gas. II. Laboratory Measurements for Fe xviii and Fe xix. <i>Astrophysical Journal, Supplement Series</i> , 1999, 123, 687-702.	7.7	62
43	Observation of Trielectronic Recombination in Be-like Cl Ions. <i>Physical Review Letters</i> , 2003, 91, 043001.	7.8	62
44	Breit interaction in dielectronic recombination of hydrogenlike uranium. <i>Physical Review A</i> , 2011, 83, .	2.5	61
45	A new technique for the measurement of ionization cross sections with crossed electron and ion beams. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1985, 10-11, 204-206.	1.4	60
46	Field Enhanced Dielectronic Recombination of Si ¹¹⁺ Ions. <i>Physical Review Letters</i> , 1997, 79, 2233-2236.	7.8	58
47	Single particle counting of heavy ions with a channeltron detector. <i>Nuclear Instruments & Methods</i> , 1980, 175, 379-384.	1.2	57
48	Single ionisation of multiply charged xenon ions by electron impact. <i>Journal of Physics B: Atomic and Molecular Physics</i> , 1984, 17, 1405-1425.	1.6	56
49	Dielectronic recombination resonances in F ⁶⁺ . <i>Physical Review A</i> , 2002, 66, .	2.5	55
50	Photoionization of Ne Atoms and Ne ⁺ Ions Near the K Edge: Precision Spectroscopy and Absolute Cross-sections. <i>Astrophysical Journal</i> , 2017, 836, 166.	4.5	54
51	Recombination of Free Electrons with Ions. <i>Physica Scripta</i> , 1991, T37, 62-65.	2.5	53
52	Experiments with highly-charged ions in the storage ring TSR. <i>Zeitschrift für Physik D-Atome, Moleküle und Clusters</i> , 1991, 21, S69-S75.	1.0	53
53	Interference effects in the photorecombination of argonlike Sc ³⁺ ions: Storage-ring experiment and theory. <i>Physical Review A</i> , 2002, 65, .	2.5	52
54	Experimental Mg ^{IX} photorecombination rate coefficient. <i>Astronomy and Astrophysics</i> , 2004, 421, 1185-1191.	5.1	52

#	ARTICLE	IF	CITATIONS
55	Roadmap on photonic, electronic and atomic collision physics: I. Light-matter interaction. Journal of Physics B: Atomic, Molecular and Optical Physics, 2019, 52, 171001.	1.5	52
56	Electron impact ionization and dielectronic recombination of sodium-like iron ions. Nuclear Instruments & Methods in Physics Research B, 1995, 98, 154-157.	1.4	51
57	Lifetime of a K-shell vacancy in atomic carbon created by $1s \rightarrow 2p$ photoexcitation of C^+ . Journal of Physics B: Atomic, Molecular and Optical Physics, 2004, 37, L103-L109.	1.5	51
58	Absolute cross sections for photoionization of Xe^{q+} ions ($1 \leq q \leq 5$) at the $3d$ ionization threshold. Journal of Physics B: Atomic, Molecular and Optical Physics, 2014, 47, 115602.	1.5	51
59	Photoionisation of ions with synchrotron radiation: from ions in space to atoms in cages. Contemporary Physics, 2016, 57, 215-229.	1.8	51
60	Dielectronic recombination of lithiumlike Ni^{25+} ions: High-resolution rate coefficients and influence of external crossed electric and magnetic fields. Physical Review A, 2000, 62, .	2.5	50
61	Electron-Impact Double Ionization of $1+$ and Xe^{q+} ($q=1, \dots, 4$) Ions: Role of $4d$ Electrons Like in Photoionization. Physical Review Letters, 1983, 50, 2070-2073.	7.8	49
62	Photoionization of C^{2+} ions: time-reversed recombination of C^{3+} with electrons. Journal of Physics B: Atomic, Molecular and Optical Physics, 2002, 35, L137-L143.	1.5	49
63	Dielectronic Recombination of Fe ^{xiii} Forming Fe ^{xii} : Laboratory Measurements and Theoretical Calculations. Astrophysical Journal, 2006, 642, 1275-1285.	4.5	49
64	Transfer ionisation in slow collisions of multiply-charged ions with atoms. Journal of Physics B: Atomic and Molecular Physics, 1983, 16, 1997-2015.	1.6	48
65	Production of multiply charged rare-gas ions by relativistic electrons. Journal of Physics B: Atomic and Molecular Physics, 1983, 16, 2039-2052.	1.6	48
66	Statistical Interpretation of Transfer Ionization in Slow Collisions of Multiply Charged Ions with Atoms. Physical Review Letters, 1983, 51, 107-109.	7.8	48
67	A dense electron target for the study of electron-ion collisions. Nuclear Instruments & Methods in Physics Research B, 1985, 9, 385-388.	1.4	47
68	Absolute detection efficiencies of microchannel plates for 0.1-2.3 keV electrons and 2.1-4.4 keV Mg^+ ions. Review of Scientific Instruments, 1986, 57, 349-353.	1.3	46
69	Electron-impact ionization of Mg-like ions: S^{4+} , Cl^{5+} , and Ar^{6+} . Physical Review A, 1986, 33, 3779-3786.	2.5	46
70	Title is missing!, 1997, 109, 233-267.		46
71	Production of highly charged rare-gas recoil ions by 1.4-MeV/amu U^{44+} . Physical Review A, 1982, 26, 1373-1377.	2.5	45
72	Merged-beams energy-loss technique for electron-ion excitation: Absolute total cross sections for $O^{5+}(2s \rightarrow 2p)$. Physical Review A, 1994, 49, 4585-4596.	2.5	45

#	ARTICLE	IF	CITATIONS
73	Recombination of W^{18+} with free electrons at very low energies. Journal of Physics B: Atomic, Molecular and Optical Physics, 1998, 31, 2415-2428.	1.5	45
74	Dielectronic Recombination (via $N\ell^2 \rightarrow N\ell^2$ Core Excitations) and Radiative Recombination of Fe xx : Laboratory Measurements and Theoretical Calculations. Astrophysical Journal, Supplement Series, 2002, 138, 337-370.	7.7	44
75	Photorecombination of ions: search for interference effects, recombination at low energies and rate coefficient in plasmas. Journal of Physics B: Atomic, Molecular and Optical Physics, 1998, 31, 4873-4886.	1.5	43
76	Experimental Evidence for Magnetic Field Effects on Dielectronic Recombination via High Rydberg States. Physical Review Letters, 1999, 82, 3779-3782.	7.8	43
77	Resonant transfer and excitation: Dependence on projectile charge state and target-electron momentum distribution. Physical Review A, 1986, 34, 2543-2546.	2.5	42
78	Dielectronic recombination of lithium-like Ar ¹⁵⁺ . Zeitschrift für Physik D-Atoms Molecules and Clusters, 1994, 30, 291-306.	1.0	42
79	Dielectronic Recombination of Fe xix Forming Fe xviii: Laboratory Measurements and Theoretical Calculations. Astrophysical Journal, 2002, 576, 1098-1107.	4.5	41
80	Dielectronic Recombination of Fe xxi and Fe xxii via $N\ell^2 \rightarrow N\ell^2$ Core Excitations. Astrophysical Journal, Supplement Series, 2003, 147, 421-435.	7.7	41
81	Semiempirical formulae for electron-impact double-ionization cross sections of light positive ions. Journal of Physics B: Atomic, Molecular and Optical Physics, 2005, 38, 525-545.	1.5	41
82	Plasma rate coefficients for highly charged ion-electron collisions: new experimental access via ion storage rings. International Journal of Mass Spectrometry, 1999, 192, 9-22.	1.5	40
83	High Rydberg Resonances in Dielectronic Recombination of Pb ⁷⁹⁺ . Physical Review Letters, 2002, 89, 053201.	7.8	40
84	Electron-impact single and double ionization of W^{17+} . Journal of Physics B: Atomic, Molecular and Optical Physics, 2011, 44, 165202.	1.5	40
85	Recombination of W^{18+} ions with electrons: Absolute rate coefficients from a storage-ring experiment and from theoretical calculations. Physical Review A, 2014, 90, .	2.5	40
86	Fusion-Related Ionization and Recombination Data for Tungsten Ions in Low to Moderately High Charge States. Atoms, 2015, 3, 120-161.	1.6	40
87	Recombination of bare Bi ⁸³⁺ ions with electrons. Physical Review A, 2000, 63, .	2.5	39
88	K-shell photoionization of ground-state Li-like carbon ions [C^{3+}]: experiment, theory and comparison with time-reversed photorecombination. Journal of Physics B: Atomic, Molecular and Optical Physics, 2009, 42, 235602.	1.5	39
89	Near L-edge Single and Multiple Photoionization of Singly Charged Iron Ions. Astrophysical Journal, 2017, 849, 5.	4.5	39
90	Experimental Link of Photoionization of Sc ²⁺ to Photorecombination of Sc ³⁺ : An Application of Detailed Balance in a Unique Atomic System. Physical Review Letters, 2002, 89, 193002.	7.8	38

#	ARTICLE	IF	CITATIONS
91	K-shell photoionization of Be-like carbon ions: experiment and theory for C ²⁺ . Journal of Physics B: Atomic, Molecular and Optical Physics, 2005, 38, 1967-1975.	1.5	38
92	Electron-Ion Recombination Measurements Motivated by AGN X-Ray Absorption Features: Fe ^{xiv} Forming Fe ^{xiii} . Astrophysical Journal, 2006, 641, L157-L160.	4.5	38
93	Resonant electron impact ionization and recombination of Li-like Cl ¹⁴⁺ and Si ¹¹⁺ at the Heidelberg Test Storage Ring. Nuclear Instruments & Methods in Physics Research B, 1995, 98, 142-145.	1.4	37
94	Recombination of U ⁹²⁺ ions with electrons. European Physical Journal D, 2001, 15, 145-154.	1.3	37
95	Photoionization of Sc ²⁺ ions by synchrotron radiation: Measurements and absolute cross sections in the photon energy range 23–68 eV. Physical Review A, 2003, 67, .	2.5	37
96	Photoionization of the endohedral fullerene ions Sc ₃ N@C ₈₀ ⁺ and Ce@C ₈₂ ⁺ by synchrotron radiation. Journal of Physics: Conference Series, 2007, 88, 012038.	0.4	37
97	Multiple ionisation of multiply charged xenon ions by electron impact. Journal of Physics B: Atomic and Molecular Physics, 1984, 17, 1427-1444.	1.6	36
98	Doubly excited resonances in the photoionization spectrum of Li ⁺ : experiment and theory. Journal of Physics B: Atomic, Molecular and Optical Physics, 2006, 39, 3957-3968.	1.5	36
99	Interference of direct and resonant channels in electron-impact ionization of C ³⁺ ions: Unified R-matrix calculation and experiment. Physical Review A, 2000, 61, .	2.5	35
100	Photoionization studies of the B valence shell: experiment and theory. Journal of Physics B: Atomic, Molecular and Optical Physics, 2003, 36, 3371-3381.	1.5	35
101	Resonant recombination at ion storage rings: a conceptual alternative for isotope shift and hyperfine studies. Hyperfine Interactions, 2010, 196, 115-127.	0.5	35
102	Determination of the 2s ² p excitation energy of lithiumlike scandium using dielectronic recombination. Physical Review A, 2004, 70, .	2.5	34
103	Multiple ionization and the charge state evolution of ions exposed to electron impact. Physics Letters, Section A: General, Atomic and Solid State Physics, 1986, 113, 415-419.	2.1	33
104	Storage-ring measurement of the hyperfine-induced $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline">s^2 p^2 \rangle$	2.5	33
105	Recombination measurements at low energies with Au ⁴⁹⁺ , ⁵⁰⁺ , ⁵¹⁺ at the TSR. , 1997, 108, 149-154.		32
106	Dielectronic recombination of ground-state and metastable Li ⁺ ions. Physical Review A, 1999, 60, R3350-R3353.	2.5	32
107	Simultaneous capture and ionization in helium. Physical Review A, 1987, 35, 3265-3268.	2.5	31
108	STORAGE RING CROSS SECTION MEASUREMENTS FOR ELECTRON IMPACT IONIZATION OF Fe ¹¹⁺ FORMING Fe ¹²⁺ AND Fe ¹³⁺ . Astrophysical Journal, 2011, 729, 76.	4.5	31

#	ARTICLE	IF	CITATIONS
109	Precision studies of deep-inner-shell photoabsorption by atomic ions. <i>Physica Scripta</i> , 2015, 90, 054004.	2.5	31
110	Single and double electron transfer in Ar^{n+} -He collisions. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1976, 59, 19-20.	2.1	30
111	Electron impact double ionisation of Ar^{n+} and Ar^{4+} ions. <i>Journal of Physics B: Atomic and Molecular Physics</i> , 1985, 18, 3011-3016.	1.6	30
112	Dependence of the charge transfer between atoms and highly charged ions on the ionization potential of the atoms. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1979, 70, 410-412.	2.1	29
113	Correlated capture ionization in slow collisions of multiply charged Xe ions with Xe atoms. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1981, 85, 77-80.	2.1	29
114	Prominent role of multielectron processes in K^{n+} -shell double and triple photodetachment of oxygen anions. <i>Physical Review A</i> , 2016, 94, .	2.5	28
115			

#	ARTICLE	IF	CITATIONS
127	Electron-impact ionization of W^{5+} . Physical Review A, 2019, 100, .	2.5	26
128	Recombination in electron coolers. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2000, 441, 183-190.	1.6	25
129	Electron-ion recombination for Si^{8+} forming Si^{7+} and Si^{9+} forming Si^{8+} : measurements and theory. Astronomy and Astrophysics, 2008, 492, 265-275.	5.1	25
130	STORAGE RING CROSS SECTION MEASUREMENTS FOR ELECTRON IMPACT IONIZATION OF Fe^{12+} FORMING Fe^{13+} AND Fe^{14+} . Astrophysical Journal, 2011, 735, 105.	4.5	25
131	Radiative-electron-capture-to-continuum cusp in $U^{88+}N_2$ collisions and the high-energy endpoint of electron-nucleus bremsstrahlung. Physical Review A, 2014, 90, .	2.5	25
132	Dielectronic capture processes in the electron-impact ionization of Sc^{2+} . Physical Review A, 1994, 49, 933-938.	2.5	24
133	Scully et al. Reply. Physical Review Letters, 2007, 98, .	7.8	24
134	Multiple Photodetachment of Carbon Anions via Single and Double Core-Hole Creation. Physical Review Letters, 2020, 124, 083203.	7.8	24
135	Electron impact double ionisation of Ar^q ions ($q=1, 2, \dots, 7$): two-electron processes compared with inner-shell contributions. Journal of Physics B: Atomic, Molecular and Optical Physics, 1989, 22, 1021-1048.	1.5	23
136	Electron-ion recombination of Si^{IV} forming Si^{III} . Storage-ring measurement and probing nuclear properties by resonant atomic collisions between electrons and ions. Physica Scripta, 2013, T156, 014050.	2.5	23
137	Photoionization and photofragmentation of multiply charged Lu^{23+} . Physical Review A, 2015, 92, .	2.5	23
138	Measurement of the field-induced dielectronic-recombination-rate enhancement of O_5^+ ions differential in the Rydberg quantum numbers. Physical Review A, 2002, 65, .	2.5	22
139	Absolute measurement of radiative and Auger rates of $K\alpha^3$ in highly charged Fe ions. Physical Review A, 2015, 91, .	2.5	22
140	Electron impact single ionisation of multiply charged krypton ions. Journal of Physics B: Atomic and Molecular Physics, 1987, 20, 1121-1134.	1.6	21
141	Electron-impact ionization of O_5^+ : Improved measurements. Physical Review A, 1987, 36, 595-598.	2.5	21
142	Towards a precision spectroscopy of very highly charged ions by employing dielectronic recombination. Nuclear Instruments & Methods in Physics Research B, 1995, 98, 158-161.	1.4	21
143	Low-energy electron capture by C_3^+ from hydrogen using merged beams. Physical Review A, 1995, 51, 2982-2988.	2.5	21
144			

#	ARTICLE	IF	CITATIONS
145	Dielectronic Recombination of Fe ^{xv} Forming Fe ^{xiv} : Laboratory Measurements and Theoretical Calculations. Astrophysical Journal, 2007, 664, 1244-1252.	4.5	21
146	K-shell photoionization of ground-state Li-like boron ions [B ²⁺]: experiment and theory. Journal of Physics B: Atomic, Molecular and Optical Physics, 2010, 43, 135602.	1.5	21
147	Single-Photon Multiple Detachment in Fullerene Negative Ions: Absolute Ionization Cross Sections and the Role of the Extra Electron. Physical Review Letters, 2013, 111, 043003.	7.8	21
148	Recombination of W^{19+} with electrons: Absolute rate coefficients from a storage-ring experiment and from theoretical calculations. Physical Review A, 2016, 93, .	2.5	21
149	Title is missing!. , 1997, 108, 167-175.		20
150	STORAGE RING MEASUREMENT OF ELECTRON IMPACT IONIZATION FOR Mg ⁷⁺ FORMING Mg ⁸⁺ . Astrophysical Journal, 2010, 712, 1166-1171.	4.5	20
151	ELECTRON-ION RECOMBINATION OF Mg ⁶⁺ FORMING Mg ⁵⁺ AND OF Mg ⁷⁺ FORMING Mg ⁶⁺ : LABORATORY MEASUREMENTS AND THEORETICAL CALCULATIONS. Astrophysical Journal, 2012, 758, 40.	4.5	20
152	Spectroscopy of berylliumlike xenon ions using dielectronic recombination. Journal of Physics B: Atomic, Molecular and Optical Physics, 2015, 48, 144008.	1.5	20
153	Electron-capture-to-continuum cusp in U^{20+} . Physical Review A, 2015, 91, .	2.5	20
154	Electron-impact single ionization of W^{19+} ions. Physical Review A, 2016, 93, .	2.5	20
155	Electron-impact Multiple-ionization Cross Sections for Atoms and Ions of Helium through Zinc. Astrophysical Journal, 2017, 850, 122.	4.5	20
156	Near-K-edge single, double, and triple photoionization of C^{3+} ions. Physical Review A, 2018, 97, .	2.5	20
157	Photoionization and photofragmentation of singly charged positive and negative Sc^{3+} and Sc^{2-} ions. Physical Review A, 2019, 99, .	2.5	20
158	Near L-edge Single and Multiple Photoionization of Triply Charged Iron Ions. Astrophysical Journal, 2019, 887, 189.	4.5	20
159	Electron capture from atomic hydrogen by slow fully stripped lithium ions. Physics Letters, Section A: General, Atomic and Solid State Physics, 1980, 80, 20-22.	2.1	19
160	Transfer ionisation in slow collisions of He ²⁺ ions in rare gases. Journal of Physics B: Atomic and Molecular Physics, 1982, 15, L207-L212.	1.6	19
161	Collisions of Fast Highly Charged Ions in Gas Targets: Ionization, Recoil-Ion Production, and Charge Transfer. Physica Scripta, 1983, T3, 153-158.	2.5	19
162	Signal enhancement in electron-ion crossed-beams experiments. Nuclear Instruments & Methods in Physics Research B, 1987, 24-25, 369-372.	1.4	19

#	ARTICLE	IF	CITATIONS
163	Electron-impact ionization of La ^{q+} ions (q=1,2,3). Physical Review A, 1989, 40, 3584-3598.	2.5	19
164	Electron-impact single and double ionization of Ba ²⁺ and Ba ³⁺ ions. Physical Review A, 1991, 43, 3522-3534.	2.5	19
165	Recombination of electrons with highly charged heavy ions at very low energies. Hyperfine Interactions, 1996, 99, 295-300.	0.5	19
166	Autoionizing resonances in electron-impact ionization of O ⁵⁺ ions. Physical Review A, 2000, 62, .	2.5	19
167	Electron-impact single and multiple ionization of Mg ⁺ ions. Journal of Physics B: Atomic, Molecular and Optical Physics, 2004, 37, 1503-1518.	1.5	19
168	Strong contributions of indirect processes to the electron-impact ionization cross section of Sc ⁺ ions. Physical Review A, 2004, 70, .	2.5	19
169	Electron-impact ionization of Ti ³⁺ ions. Journal of Physics B: Atomic, Molecular and Optical Physics, 2004, 37, 4387-4395.	1.5	19
170	ELECTRON-ION RECOMBINATION OF Fe XII FORMING Fe XI: LABORATORY MEASUREMENTS AND THEORETICAL CALCULATIONS. Astrophysical Journal, 2012, 753, 57.	4.5	19
171	Single-photon single ionization of W ⁺ ions: experiment and theory. Journal of Physics B: Atomic, Molecular and Optical Physics, 2015, 48, 235203.	1.5	19
172	Electron-ion collision spectroscopy: Lithium-like xenon ions. Physical Review A, 2015, 91, .	2.5	19
173	Inner-shell X-ray absorption spectra of the cationic series NH _y ⁺ (y = 1-9). <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2015, 48, 235203.	2.8	19
174	Collision-Strength Shift in Electron-Impact Single and Double Ionization of Sb and Bi Ions. Physical Review Letters, 1985, 54, 414-417.	7.8	18
175	Enhanced dielectronic recombination of lithium-like Ti ¹⁹⁺ ions in external E _z -B fields. Journal of Physics B: Atomic, Molecular and Optical Physics, 2000, 33, L453-L460.	1.5	18
176	Rate enhancement in the recombination of Bi ⁸⁰⁺ ions with electrons. Physical Review A, 2002, 66, .	2.5	18
177	STORAGE RING CROSS SECTION MEASUREMENTS FOR ELECTRON IMPACT SINGLE AND DOUBLE IONIZATION OF Fe ¹³⁺ AND SINGLE IONIZATION OF Fe ¹⁶⁺ AND Fe ¹⁷⁺ . Astrophysical Journal, 2013, 767, 47.	4.5	18
178	On the charge state distribution of multiply charged ions extracted from electron beam ion sources. Nuclear Instruments & Methods, 1977, 140, 181-188.	1.2	17
179	Multiple-electron processes in 1.4 MeV/u ion-atom collisions. Zeitschrift für Physik D-Atoms Molecules and Clusters, 1987, 7, 251-260.	1.0	17
180	Single transfer-excitation resonance observed via the two-photon decay in He-like Ge ³⁰⁺ . Physical Review Letters, 1990, 65, 3108-3111.	7.8	17

#	ARTICLE	IF	CITATIONS
181	STORAGE RING CROSS-SECTION MEASUREMENTS FOR ELECTRON IMPACT SINGLE AND DOUBLE IONIZATION OF Fe^{9+} AND SINGLE IONIZATION OF Fe^{10+} . Astrophysical Journal, 2012, 760, 80.	4.5	17
182	Electron-loss-to-continuum cusp in $\text{U}^{88+} + \text{N}_2$ collisions. Physical Review A, 2014, 90, .	2.5	17
183	<i>K</i> -shell photoionization of Be-like boron (B^{+}) ions: experiment and theory. Journal of Physics B: Atomic, Molecular and Optical Physics, 2014, 47, 135201.	1.5	17
184	The photon-ion merged beams experiment PIPE at PETRA – The first five years. X-Ray Spectrometry, 2020, 49, 11-20.	1.4	17
185	Near L-edge Single and Multiple Photoionization of Doubly Charged Iron Ions. Astrophysical Journal, 2021, 908, 52.	4.5	17
186	Ion Formation Processes: Ionization in Ion-Electron Collisions. Springer Series in Chemical Physics, 1991, , 13-90.	0.2	16
187	Dielectronic recombination resonances in Na^{8+} . Physical Review A, 2004, 70, .	2.5	16
188	Photoionization of tungsten ions with synchrotron radiation. Physica Scripta, 2011, T144, 014052.	2.5	16
189	$\langle \text{double } K \text{ shell} \rangle$ in electron-impact single ionization of metastable two-electron N^+		

#	ARTICLE	IF	CITATIONS
199	Influence of electromagnetic fields on the dielectronic recombination of Ne ⁷⁺ ions. Physical Review A, 2001, 64, .	2.5	14
200	Photoionization of tungsten ions: experiment and theory for W ²⁺ and W ³⁺ . Journal of Physics B: Atomic, Molecular and Optical Physics, 2016, 49, 065201.	1.5	14
201	Electron capture by Li ³⁺ and Li ²⁺ ions in H ₂ and He. Journal of Physics B: Atomic and Molecular Physics, 1981, 14, 3987-3991.	1.6	13
202	Electron impact multiple ionisation of multiply charged krypton ions. Journal of Physics B: Atomic and Molecular Physics, 1987, 20, 1823-1838.	1.6	13
203	Recombination of U ²⁸⁺ ions in a dense, cold electron target. Nuclear Instruments & Methods in Physics Research B, 1995, 98, 162-164.	1.4	13
204	Doubly excited resonances in the photoionization spectrum of Li ⁺ . Journal of Physics: Conference Series, 2007, 58, 387-390.	0.4	13
205	Detailed investigation of electron-impact single-ionization cross sections and plasma rate coefficients of N-shell tin ions. Journal of Physics B: Atomic, Molecular and Optical Physics, 2013, 46, 175201.	1.5	13
206	Electron capture cross sections for multiply charged argon ions passing through nitrogen and krypton targets at energies from 10 to 110 keV. Journal of Chemical Physics, 1976, 65, 3427-3430.	3.0	12
207	Production of isotope-resolved beams of highly charged xenon ions. Nuclear Instruments & Methods, 1979, 164, 607-608.	1.2	12
208	Resonant transfer and excitation (RTE) in Ti ¹⁹⁺ H ₂ collisions. Nuclear Instruments & Methods in Physics Research B, 1987, 23, 137-139.	1.4	12
209	Resonant transfer and excitation in swift, heavy few-electron projectiles. Radiation Effects and Defects in Solids, 1989, 110, 39-43.	1.2	12
210	Atomic physics experiments at ion storage rings. Nuclear Instruments & Methods in Physics Research B, 1994, 87, 34-44.	1.4	12
211	Fundamentals of electron-ion interaction. Hyperfine Interactions, 1996, 99, 31-45.	0.5	12
212	Dielectronic recombination of lithium-like gold: Towards QED tests. , 1998, 114, 45-48.		12
213	Photoionization measurements for the iron isonuclear sequence Fe ³⁺ , Fe ⁴⁺ , Fe ⁵⁺ , Fe ⁶⁺ , Fe ⁷⁺ . Journal of Physics B: Atomic, Molecular and Optical Physics, 2015, 48, 144003.		12
214	Stepwise contraction of the n Rydberg shells in the 3d photoionization of multiply-charged xenon ions. Journal of Physics B: Atomic, Molecular and Optical Physics, 2015, 48, 144003.	1.5	12
215	STORAGE RING CROSS SECTION MEASUREMENTS FOR ELECTRON IMPACT IONIZATION OF Fe ⁷⁺ . Astrophysical Journal, 2015, 813, 16.	4.5	12
216	Photoionization and photofragmentation of the C ⁶⁺ ion. Physical Review A, 2016, 93, .	2.5	12

#	ARTICLE	IF	CITATIONS
217	Photoabsorption of the molecular IH cation at the iodine edge. Physical Review A, 2018, 97, .	2.1	11
218	Comparison of inner-shell ionization by relativistic electron and positron impact. Physics Letters, Section A: General, Atomic and Solid State Physics, 1976, 59, 274-276.	2.1	11
219	Photoionization of C 2+ ions. Nuclear Instruments & Methods in Physics Research B, 2003, 205, 301-305.	1.4	11
220	Hyperfine quenching of resonances in dielectronic recombination of zinc-like Pt48+. Nuclear Instruments & Methods in Physics Research B, 2005, 235, 265-269.	1.4	11
221	Multiple ionization of Sc+ ions by electron impact. Journal of Physics B: Atomic, Molecular and Optical Physics, 2005, 38, 2015-2028.	1.5	11
222	Fine-structure resolved photoionization of metastable Be-like ions C III, N IV, and O V. Journal of Physics: Conference Series, 2007, 58, 383-386.	0.4	11
223	Strong asymmetry of the electron-loss-to-continuum cusp of multielectron U in near-relativistic collisions with gaseous targets. Physical Review A, 2016, 93, .	2.5	11
224	Electron-impact single ionisation of W ions: experiment and theory for 11 q ions. Journal of Physics B: Atomic, Molecular and Optical Physics, 2020, 53, 015201.	1.5	11
225	Experimental O VI dielectronic recombination rate coefficient and its enhancement by external electric fields. Astronomy and Astrophysics, 2003, 405, 1157-1162.	5.1	11
226	Resonant indirect processes in electron-impact single ionization of Ne7+ ions. Physical Review A, 2000, 63, .	2.5	10
227	Experimental N V and Ne VIII low-temperature dielectronic recombination rate coefficients. Astronomy and Astrophysics, 2005, 437, 1151-1157.	5.1	10
228	Electron-impact ionization of B ions. Journal of Physics B: Atomic, Molecular and Optical Physics, 2009, 42, 175203.	1.5	10
229	Electron-impact single ionization of Xe10 + ions. Journal of Physics B: Atomic, Molecular and Optical Physics, 2011, 44, 205205.	1.5	10
230	Electron-impact-ionization measurements using hyperfine-assisted state preparation of ground-state berylliumlike sulfur. Physical Review A, 2012, 85, .	2.5	10
231	Absolute rate coefficients for the recombination of open f-shell tungsten ions. Journal of Physics: Conference Series, 2014, 488, 012051.	0.4	10
232	Photoionization and electron-impact ionization of Kr5+. Physical Review A, 2006, 74, .	2.5	9
233	Photorecombination of berylliumlike Ti18+: Hyperfine quenching of dielectronic resonances. Journal of Physics: Conference Series, 2007, 58, 137-140.	0.4	9
234	State-resolved valence shell photoionization of Be-like ions: experiment and theory. Journal of Physics B: Atomic, Molecular and Optical Physics, 2010, 43, 225201.	1.5	9

#	ARTICLE	IF	CITATIONS
235	Recombination of Au ²⁰⁺ at low electron-ion collision energies. Physica Scripta, 2011, T144, 014039.	2.5	9
236	Electron-impact ionization of Xe Theory versus experiment. Physical Review A, 2015, 92, .		
237	Recombination of open-f-shell tungsten ions. Journal of Physics B: Atomic, Molecular and Optical Physics, 2017, 50, 052001.	1.5	9
238	Cross sections for photoionization of fullerene molecular ions C_n^+ with $n < 25$ and $n = 40, 50, 70, 76, 77$. Physical Review A, 2018, 97, .	2.5	9
239	Indirect contributions to electron-impact ionization of Li ⁺ (1s2sS13) ions: Role of intermediate double-K-vacancy states. Physical Review A, 2018, 97, .	2.5	9
240	Photoionization of Astrophysically Relevant Atomic Ions at PIPE. Atoms, 2020, 8, 45.	1.6	9
241	Targets consisting of free charged particles. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1989, 282, 80-86.	1.6	8
242	Title is missing!. , 1997, 108, 273-281.		8
243	Experimental search for interference effects in the total Sc^{3+} recombination rate. Physical Review A, 1999, 59, 3092-3094.	2.5	8
244	Deep-Core Dielectronic-Capture Resonances in the Electron-Impact Ionization of Heavy Atomic Ions. Physical Review Letters, 2001, 86, 620-623.	7.8	8
245	A high-current electron gun for electron-ion collision physics. Nuclear Instruments & Methods in Physics Research B, 2003, 205, 201-206.	1.4	8
246	High resolution low-energy dielectronic recombination rate coefficients of beryllium-like germanium: QED test bench for two-valence-electron systems. Journal of Physics: Conference Series, 2009, 163, 012058.	0.4	8
247	Future experiments using forward electron spectroscopy to study the quantum dynamics of high-Z ions at the ESR/CRYRING storage rings. Physica Scripta, 2013, T156, 014087.	2.5	8
248	Single and multiple photoionization of W^{q+} tungsten ions in charge states $q=1,2,\dots,5$: experiment and theory. Journal of Physics: Conference Series, 2014, 488, 022032.	0.4	8
249	Plasma rate coefficients for electron-impact ionization of Xe^{q+} ions ($q = 8, \dots, 17$). Journal of Physics B: Atomic, Molecular and Optical Physics, 2015, 48, 035203.	1.5	8
250	On the population of metastable ionic states in electron-capture collisions. Zeitschrift für Physik A, 1981, 301, 11-16.	1.4	7
251	Ionization and recombination in highly charged ion-electron collisions. Nuclear Instruments & Methods in Physics Research B, 1995, 99, 58-61.	1.4	7
252	The enhancement effect in K-shell radiative recombination of U^{92+} ions with cooling electrons. European Physical Journal: Special Topics, 2009, 169, 15-18.	2.6	7

#	ARTICLE	IF	CITATIONS
253	Low-energy collisions with atomic and molecular ions in a photocathode electron target. Journal of Physics: Conference Series, 2009, 194, 012024.	0.4	7
254	Publisher's Note: Confinement Resonances in Photoionization of Xe@C60+ [Phys. Rev. Lett. 105, 213001 (2010)]. Physical Review Letters, 2010, 105, .	7.8	7
255	Dielectronic recombination of in-flight synthesized exotic isotopes. Journal of Physics: Conference Series, 2012, 388, 062042.	0.4	7
256	ELECTRON-ION RECOMBINATION OF Fe ¹²⁺ FORMING Fe ¹¹⁺ : LABORATORY MEASUREMENTS AND THEORETICAL CALCULATIONS. Astrophysical Journal, 2014, 788, 46.	4.5	7
257	Subshell-selective x-ray studies of radiative recombination of U with electrons for very low relative energies. Physical Review A, 2015, 92, .	2.5	7
258	Ab-Initio Calculations of Level Energies, Oscillator Strengths and Radiative Rates for E1 Transitions in Beryllium-Like Iron. Atoms, 2015, 3, 2-52.	1.6	7
259	Photoionization of tungsten ions: experiment and theory for W^{4+} . Journal of Physics B: Atomic, Molecular and Optical Physics, 2017, 50, 085007.	1.5	7
260	Role of L -shell single and double core-hole production and decay in L -shell		

#	ARTICLE	IF	CITATIONS
271	Transfer Ionization in Collisions Between Multiply Charged Ions and Atoms at KeV Energies. Physica Scripta, 1983, T3, 148-152.	2.5	6
272	On electron impact ionization cross-sections and rates for multiply charged ions. Monthly Notices of the Royal Astronomical Society, 1983, 203, 45P-48P.	4.4	5
273	Multiple-electron capture and ionization in heavy-ion-atom collisions. Nuclear Instruments & Methods in Physics Research B, 1987, 24-25, 111-114.	1.4	5
274	Electron-Impact Ionization of Ions: a Brief Review with Emphasis on Data for Metallic Impurities in Fusion Plasmas. Physica Scripta, 1991, T37, 14-18.	2.5	5
275	Status of the Electron-Ion Collision Database for Metallic Impurities. Physica Scripta, 1991, T37, 8-10.	2.5	5
276	Recombination of lithium-like bismuth and uranium ions with free electrons at the ESR. , 1997, 108, 155-165.		5
277	Recombination of U89+ ions with free electrons at the ESR. , 1998, 114, 263-266.		5
278	Recombination of Sc3+ ions with free electrons. , 1998, 114, 273-276.		5
279	Photoionization of Sc 2+ : Experimental link with photorecombination of Sc 3+ by application of detailed balance. Nuclear Instruments & Methods in Physics Research B, 2003, 205, 297-300.	1.4	5
280	Autoionizing high-Rydberg states of very heavy Be-like ions: A tool for precision spectroscopy. Nuclear Instruments & Methods in Physics Research B, 2003, 205, 66-69.	1.4	5
281	Electron impact ionization of xenon ions. Journal of Physics: Conference Series, 2009, 194, 062014.	0.4	5
282	PIPE: A versatile photon-ion spectrometer at PETRAIII. Journal of Physics: Conference Series, 2009, 194, 142012.	0.4	5
283	Interference effect in the dipole and nondipole anisotropy parameters of the Kr photoelectrons in the vicinity of the Kr ⁴⁺ photoelectrons. Journal of Physics: Conference Series, 2009, 194, 062014.	2.5	5
284	Towards a measurement of the $2s2p^3P_{0,1} \rightarrow 2s^2 1S_0$ two photon transition rate in Be-like xenon ions. Journal of Physics: Conference Series, 2012, 388, 012007.	0.4	5
285	Electron-impact ionization of multiply charged tungsten ions. Journal of Physics: Conference Series, 2014, 488, 062026.	0.4	5
286	PAMOP: Petascale Atomic, Molecular and Optical Collision Calculations. , 2015, , 47-61.		5
287	Absolute rate coefficients for photorecombination of beryllium-like and boron-like silicon ions. Journal of Physics B: Atomic, Molecular and Optical Physics, 2016, 49, 074004.	1.5	5
288	Photoionization of tungsten ions: experiment and theory for W5+. Journal of Physics B: Atomic, Molecular and Optical Physics, 2019, 52, 195005.	1.5	5

#	ARTICLE	IF	CITATIONS
289	Absorption spectra at the iodine 3d ionisation threshold following the CH _x I ⁺ cation sequence. Physical Chemistry Chemical Physics, 2019, 21, 25415-25424.	2.8	5
290	Disentangling the Photodissociation Dynamics of the HF Molecular Radical via Kinetic-Energy-Release-Resolved F 1s Core Excitation and Ionization. Journal of Physical Chemistry Letters, 2021, 12, 1390-1395.	4.6	5
291	Multiple photodetachment of atomic anions via single and double core-hole creation. Journal of Physics B: Atomic, Molecular and Optical Physics, 2020, 53, 192001.	1.5	5
292	Ionization and charge transfer in high-energy ion-atom collisions. Nuclear Instruments & Methods in Physics Research B, 1987, 24-25, 219-223.	1.4	4
293	Absolute cross sections for electron-impact excitation of the 3d ² 3F ⁺ 3d4p ^{3D,3F} transitions in Ti ²⁺ . Physical Review A, 2002, 65, .	2.5	4
294	Electron-impact double ionization of Pb ^{q+} ions for q = 1-9. Journal of Physics B: Atomic, Molecular and Optical Physics, 2005, 38, 2833-2842.	1.5	4
295	Experimental rate coefficient for dielectronic recombination of neonlike iron forming sodiumlike iron. Journal of Physics: Conference Series, 2009, 163, 012028.	0.4	4
296	A new data acquisition system for Schottky signals in atomic physics experiments at GSI's and FAIR's storage rings. Physica Scripta, 2015, T166, 014062.	2.5	4
297	Dielectronic Recombination in External Electromagnetic Fields. , 2003, , 269-301.		4
298	Investigation of an Electron Beam Ion Source for the Production of Multiply Charged Heavy Ions. IEEE Transactions on Nuclear Science, 1976, 23, 1027-1030.	2.0	3
299	Transfer ionization with bare 100 keV Ne ¹⁰⁺ ions colliding with noble gas atoms. Nuclear Instruments & Methods in Physics Research B, 1985, 9, 426-428.	1.4	3
300	Electron loss and excitation in collisions of highly charged calcium ions with H ₂ and He. Nuclear Instruments & Methods in Physics Research B, 1987, 23, 143-146.	1.4	3
301	Resonances in the electron-impact single and multiple ionization of ions. Zeitschrift für Physik D-Atoms Molecules and Clusters, 1991, 21, S189-S191.	1.0	3
302	Recombination of free electrons with U ²⁸⁺ ions. Zeitschrift für Physik D-Atoms Molecules and Clusters, 1991, 21, S205-S206.	1.0	3
303	Dielectronic capture and subsequent relaxation in electron-ion collisions. Nuclear Instruments & Methods in Physics Research B, 1997, 124, 281-289.	1.4	3
304	Measurement of field effects on dielectronic recombination of Si ¹¹⁺ ions. , 1997, 108, 177-183.		3
305	Recent dielectronic recombination experiments. , 1998, 114, 229-235.		3
306	Electron-Impact Ionization and Recombination of Highly Charged Ions. , 1999, , 272-290.		3

#	ARTICLE	IF	CITATIONS
307	Experimental Data for Electron-Ion Collisions. AIP Conference Proceedings, 2002, , .	0.4	3
308	Dielectronic recombination at low energies: Spectroscopy of doubly excited states in beryllium-like Na 7+ ions. Nuclear Instruments & Methods in Physics Research B, 2003, 205, 99-101.	1.4	3
309	Electron-impact multiple ionization of Ba q+ ions ($1\frac{1}{2} \leq q \leq 13$) via resonant 3d excitation. Nuclear Instruments & Methods in Physics Research B, 2003, 205, 433-436.	1.4	3
310	Resonance phenomena in collisions of atomic ions with electrons and photons. European Physical Journal: Special Topics, 2009, 169, 35-42.	2.6	3
311	Experimental absolute cross section for photoionization of Xe7+. Journal of Physics: Conference Series, 2009, 194, 022094.	0.4	3
312	Experimental confirmation of left-right asymmetry in photoionization. Journal of Physics: Conference Series, 2009, 194, 022051.	0.4	3
313	Photoionization of singly and multiply charged tungsten ions. Journal of Physics: Conference Series, 2012, 388, 022037.	0.4	3
314	Cross-section measurements with interacting beams. , 2013, , .		3
315	High-power electron gun for electron-ion crossed-beams experiments. Journal of Physics: Conference Series, 2014, 488, 142007.	0.4	3
316	Experimental investigation of left-right asymmetry in photon-atom interaction. Physical Review A, 2014, 90, .	2.5	3
317	Electric octupole contribution to the angular distribution of the krypton 4p photoelectrons. Journal of Physics: Conference Series, 2014, 488, 022041.	0.4	3
318	Commissioning of a powerful electron gun for electron-ion crossed-beams experiments. Nuclear Instruments & Methods in Physics Research B, 2017, 408, 317-322.	1.4	3
319	Photoionisation of Ca+ions in the valence-energy region 20â€“56 eV: experiment and theory. Journal of Physics B: Atomic, Molecular and Optical Physics, 2017, 50, 205001.	1.5	3
320	Direct double ionization of the Ar+ M shell by a single photon. Physical Review A, 2021, 103, .	2.5	3
321	Transfer Ionization in Collisions of Multiply Charged Ions with Atoms. NATO ASI Series Series B: Physics, 1986, , 357-402.	0.2	3
322	PAMOP Project: Computations in Support of Experiments and Astrophysical Applications. , 2016, , 33-48.		3
323	PHOTOIONIZATION AND FRAGMENTATION OF FULLERENE IONS. , 2008, , 177-186.		3
324	Multiple photodetachment of silicon anions via $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mi} \rangle K \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ -shell excitation and ionization. Physical Review A, 2021, 104, .	2.5	3

#	ARTICLE	IF	CITATIONS
325	Near K-edge Photoionization and Photoabsorption of Singly, Doubly, and Triply Charged Silicon Ions. <i>Astrophysical Journal</i> , 2022, 931, 100.	4.5	3
326	Spectroscopy of autoionizing states contributing to electron-impact ionization of ions. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1989, 40-41, 232-234.	1.4	2
327	Dielectronic Recombination of Very Heavy Lithiumlike Ions. <i>Hyperfine Interactions</i> , 2003, 146/147, 41-45.	0.5	2
328	Measurement of the field-induced dielectronic recombination rate enhancement of N 4+ ions differential in the Rydberg quantum number n. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2003, 205, 370-373.	1.4	2
329	Time-reversal Studies in Photorecombination and Photoionization Experiments with Ion Beams. <i>AIP Conference Proceedings</i> , 2003, . .	0.4	2
330	Many-electron phenomena in the ionization of ions. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2005, 233, 141-150.	1.4	2
331	Electron-ion recombination measurements of Fe7+, Fe8+, Fe13+ motivated by active galactic nuclei x-ray absorption features. <i>Journal of Physics: Conference Series</i> , 2007, 58, 223-226.	0.4	2
332	Photorecombination studies of highly charged ions at the storage ring ESR: a progress report. <i>Journal of Physics: Conference Series</i> , 2007, 58, 81-86.	0.4	2
333	Low-lying dielectronic resonances of Fe XXII for accurate energy determination of autoionising Rydberg levels on boronlike cores. <i>Journal of Physics: Conference Series</i> , 2009, 163, 012059.	0.4	2
334	Experimental confirmation of left-right asymmetry in photoionization. <i>Journal of Physics: Conference Series</i> , 2009, 194, 012003.	0.4	2
335	Photo-multidetachment and Fragmentation of C₆₀Anions. <i>Journal of Physics: Conference Series</i> , 2012, 388, 022039.	0.4	2
336	Photon-ion spectrometer PIPE at the Variable Polarization XUV Beamline of PETRA III. <i>Journal of Physics: Conference Series</i> , 2012, 388, 142016.	0.4	2
337	Electron-impact single-ionization of Ar⁶⁺ ions. <i>Journal of Physics: Conference Series</i> , 2012, 388, 062027.	0.4	2
338	ADDENDUM: â€œSTORAGE RING CROSS-SECTION MEASUREMENTS FOR ELECTRON IMPACT IONIZATION OF Fe¹²⁺ FORMING Fe¹³⁺ AND Fe¹⁴⁺â€•(2011, <i>ApJ</i> , 735, 105). <i>Astrophysical Journal</i> , 2012, 761, 79.	4.5	2
339	Observation of four-electron Auger processes. <i>Journal of Physics: Conference Series</i> , 2015, 635, 012033.	0.4	2
340	Dielectronic resonances in highly-charged heavy ions observed in ion traps. <i>Journal of Physics: Conference Series</i> , 2017, 875, 052026.	0.4	2
341	PAMOP: Large-Scale Calculations Supporting Experiments and Astrophysical Applications. , 2018, , 37-59.		2
342	Resonant and nonresonant indirect electron-impact single ionization of beryllium-like carbon ions via K-shell excitation. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2019, 52, 035202.	1.5	2

#	ARTICLE	IF	CITATIONS
343	Electron-impact ionisation of W^{q+} ions with $1 \hat{=} \frac{1}{2} q \hat{=} \frac{1}{2}$. Journal of Physics: Conference Series, 2020, 1412, 152011.	0.4	2
344	PAMOP2: Towards Exascale Computations Supporting Experiments and Astrophysics. , 2019, , 37-61.		2
345	Dissociation and Charge Transfer of CO_2^{+} and CO_2^{2+} Ions in Collisions with Neutral Atoms and Molecules. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 1977, 32, 555-557.	1.5	1
346	Electron Capture by Multiply Charged Ions Colliding With Atoms or Molecules. Physica Scripta, 1981, 23, 191-191.	2.5	1
347	Transfer Ionization in Slow Multiply Charged Ion-Atom Collisions. IEEE Transactions on Nuclear Science, 1983, 30, 1008-1011.	2.0	1
348	Resonant recombination and autoionization in electron-ion collisions. AIP Conference Proceedings, 1990, , .	0.4	1
349	Radiative recombination of highly charged ions: Enhanced rates at low energies. AIP Conference Proceedings, 1993, , .	0.4	1
350	Electron-ion collisions in storage rings. AIP Conference Proceedings, 1996, , .	0.4	1
351	Recombination of Au^{25+} with free electrons at low energies. , 1998, 114, 257-261.		1
352	Measurements of low temperature dielectronic recombination in L-shell iron for modeling X-ray photoionized cosmic plasmas. AIP Conference Proceedings, 2000, , .	0.4	1
353	Trielectronic recombination in Be-like ions. Nuclear Instruments & Methods in Physics Research B, 2003, 205, 367-369.	1.4	1
354	STATE-SELECTIVE X-RAY STUDY OF THE RADIATIVE RECOMBINATION OF U^{92+} IONS WITH COOLING ELECTRONS. , 2006, , .		1
355	Fullerene-Encapsulated Atoms in the Light of Synchrotron Radiation. , 2009, , .		1
356	Observation of enhancement in K-shell radiative recombination of U^{92+} ions with cooling electrons. Journal of Physics: Conference Series, 2009, 194, 062017.	0.4	1
357	Dielectronic recombination of xenonlike tungsten ions. Journal of Physics: Conference Series, 2012, 388, 062028.	0.4	1
358	Electron-impact single-ionization of Ar^{5+} ions. Journal of Physics: Conference Series, 2012, 388, 062026.	0.4	1
359	X-ray laser spectroscopy with an electron beam ion trap at the free electron laser LCLS. Journal of Physics: Conference Series, 2012, 388, 032037.	0.4	1
360	Observation of four-electron Auger processes. Journal of Physics: Conference Series, 2015, 635, 092101.	0.4	1

#	ARTICLE	IF	CITATIONS
361	High-resolution dielectronic recombination experiments at the upcoming CRYRING@ESR facility. Journal of Physics: Conference Series, 2015, 635, 022084.	0.4	1
362	Electron emission spectra of U28+-ions colliding with gaseous targets. Journal of Physics: Conference Series, 2015, 635, 022049.	0.4	1
363	Special issue on atomic and molecular data for astrophysics. Journal of Physics B: Atomic, Molecular and Optical Physics, 2017, 50, 060201.	1.5	1
364	Developments towards a transverse free-electron target for the storage ring CRYRING@ESR. Journal of Physics: Conference Series, 2017, 875, 052040.	0.4	1
365	Photoionization of low-charged silicon ions. Journal of Physics: Conference Series, 2020, 1412, 152024.	0.4	1
366	Photoionization and photofragmentation of singly charged positive and negative Sc3N@C80 endohedral fullerene ions. Journal of Physics: Conference Series, 2020, 1412, 202027.	0.4	1
367	Electron impact ionization of multiply charged ions. , 1991, , 39-43.		1
368	Non-dipole anisotropy parameters in the photoionization of Kr in the region of deep inner shell excitations. Journal of Electron Spectroscopy and Related Phenomena, 2022, 258, 147209.	1.7	1
369	Electron Impact Ionization of Multiply Charged Ions. Physica Scripta, 1981, 23, 190-190.	2.5	0
370	Dielektronische Rekombination - eine Herausforderung für Atomphysiker. Physik Journal, 1986, 42, 301-303.	0.1	0
371	Electron-ion collisions: Dielectronic recombination and ionization. Nuclear Instruments & Methods in Physics Research B, 1987, 23, 254-264.	1.4	0
372	Inner-shell processes in heavy, few-electrons projectiles. AIP Conference Proceedings, 1990, , .	0.4	0
373	Recombination of highly charged ions with free electrons. AIP Conference Proceedings, 1992, , .	0.4	0
374	Dielectronic recombination of lithium-like gold. AIP Conference Proceedings, 1993, , .	0.4	0
375	Enhancement effects on electron-ion recombination rates. , 1997, , .		0
376	Field enhanced dielectronic recombination of Si11+ ions. , 1998, 114, 251-256.		0
377	Electron-impact ionization and recombination of atomic ions studied at storage rings. , 1998, , .		0
378	Field effects on the recombination of atomic ions studied at a storage ring electron cooler. AIP Conference Proceedings, 2000, , .	0.4	0

#	ARTICLE	IF	CITATIONS
379	Enhancement of Dielectronic Recombination by External Electromagnetic Fields. <i>Hyperfine Interactions</i> , 2003, 146/147, 23-27.	0.5	0
380	Strong contributions of indirect processes to the electron-impact ionization cross section of Sc + ions. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2003, 205, 410-412.	1.4	0
381	K-shell photoionization of C ²⁺ ions: experiment and theory. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2005, 144-147, 53-54.	1.7	0
382	Photoionization of Multiply Charged Ions at the Advanced Light Source. <i>AIP Conference Proceedings</i> , 2005, , .	0.4	0
383	Redistribution of Ce 4d oscillator strength observed in photoionization of endohedral Ce@C ⁺⁸² ions. <i>Journal of Physics: Conference Series</i> , 2009, 194, 132009.	0.4	0
384	Electron impact ionization of ground-state and metastable Li ⁺ ions. <i>Journal of Physics: Conference Series</i> , 2009, 194, 062002.	0.4	0
385	Experimental studies of electron collisions with atomic ions for astrophysical plasmas. <i>Journal of Physics: Conference Series</i> , 2009, 194, 062025.	0.4	0
386	High-resolution photoionization of Xe ⁺ ions: Experiment and theory. <i>Journal of Physics: Conference Series</i> , 2012, 388, 022038.	0.4	0
387	Energy- and angle-resolved spectroscopy of electrons from ion-atom collisions. <i>Journal of Physics: Conference Series</i> , 2012, 388, 082051.	0.4	0
388	Confinement resonances in photoionization of endohedral Xe@C ₆₀ ⁺ . <i>Journal of Physics: Conference Series</i> , 2012, 388, 022003.	0.4	0
389	Electron-impact single and multiple ionization of xenon ions. <i>Journal of Physics: Conference Series</i> , 2012, 388, 062024.	0.4	0
390	High-power electron gun for electron-ion crossed-beams experiments. <i>Journal of Physics: Conference Series</i> , 2012, 388, 142020.	0.4	0
391	Electron-impact single and double ionization of tin ions. <i>Journal of Physics: Conference Series</i> , 2012, 388, 062023.	0.4	0
392	K-shell photoionization of Be-like B ⁺ ions. <i>Journal of Physics: Conference Series</i> , 2012, 388, 022101.	0.4	0
393	Storage ring meets astrophysics: Dielectronic recombination of L-shell and M-shell iron ions. <i>Journal of Physics: Conference Series</i> , 2012, 388, 062029.	0.4	0
394	Strong quadrupole interaction between the krypton 4p photoionization and 3d resonant excitation channels. <i>Journal of Physics: Conference Series</i> , 2012, 388, 022005.	0.4	0
395	Dielectronic recombination of metastable berylliumlike xenon ions. <i>Journal of Physics: Conference Series</i> , 2012, 388, 062036.	0.4	0
396	Asymmetric photoelectron emission from the krypton 4p shell in the vicinity of 3d resonant excitations. <i>Journal of Physics: Conference Series</i> , 2012, 388, 022004.	0.4	0

#	ARTICLE	IF	CITATIONS
397	Electron impact ionization measurements at the Heidelberg heavy ion storage ring TSR. Journal of Physics: Conference Series, 2012, 388, 062021.	0.4	0
398	Electron-impact single and double ionization of W^{17+} ions. Journal of Physics: Conference Series, 2012, 388, 062022.	0.4	0
399	ADDENDUM: α STORAGE RING MEASUREMENT OF ELECTRON IMPACT IONIZATION FOR Mg^{7+} FORMING Mg^{8+} (2010, ApJ, 712, 1166). Astrophysical Journal, 2012, 761, 77.	4.5	0
400	ADDENDUM: α STORAGE RING CROSS SECTION MEASUREMENTS FOR ELECTRON IMPACT IONIZATION OF Fe^{11+} FORMING Fe^{12+} AND Fe^{13+} (2011, ApJ, 729, 76). Astrophysical Journal, 2012, 761, 78.	4.5	0
401	Towards a storage-ring measurement of the hyperfine induced $2s2p3P0^{\uparrow} 2s21S0$ transition rate in berylliumlike sulfur. Journal of Physics: Conference Series, 2012, 388, 152004.	0.4	0
402	Electrospray ionization source for collision experiments with keV-beams of biomolecular ions. Journal of Physics: Conference Series, 2012, 388, 142004.	0.4	0
403	Breit interaction in dielectronic recombination of H-like uranium. Journal of Physics: Conference Series, 2012, 388, 062034.	0.4	0
404	Enhanced radiative recombination of U^{92+} ions with cooling electrons for the K-shell. Journal of Physics: Conference Series, 2012, 388, 062044.	0.4	0
405	Direct and indirect processes in electron-impact ionization of $1s^2 1S0$ ground-state and $1s2s 3S1$ metastable He-like N^{5+} ions. Journal of Physics: Conference Series, 2014, 488, 062024.	0.4	0
406	Dielectronic recombination of berylliumlike Si^{10+} ions at the heavy-ion storage ring TSR. Journal of Physics: Conference Series, 2014, 488, 062012.	0.4	0
407	Storage-ring measurement of the hyperfine induced $2s2p \langle \sup 3 \rangle P \langle \sub 0 \rangle \hat{\uparrow} 2s \langle \sup 2 \rangle S \langle \sup 1 \rangle S \langle \sub 0 \rangle$ transition rate in berylliumlike sulfur. Journal of Physics: Conference Series, 2014, 488, 062016.	0.4	0
408	Electron-impact ionization of 4d-shell xenon and tin ions. Journal of Physics: Conference Series, 2014, 488, 062025.	0.4	0
409	A setup for ion-beam emittance measurements employed to diagnose plasma ion thrusters. Journal of Physics: Conference Series, 2014, 488, 142008.	0.4	0
410	Dielectronic recombination of berylliumlike Xe^{50+} ions: Measurement and theoretical calculations. Journal of Physics: Conference Series, 2014, 488, 062013.	0.4	0
411	Dielectronic recombination of lithiumlike Xe^{51+} ions: Storage ring experiment and theoretical calculations. Journal of Physics: Conference Series, 2014, 488, 062014.	0.4	0
412	First light on 3d photoionization of multiply charged xenon ions: a new photon-ion merged beam setup at PETRA III. Journal of Physics: Conference Series, 2014, 488, 142006.	0.4	0
413	Photoionization of Xe inside a C_{60} cage: a single-molecule electron interferometer. Journal of Physics: Conference Series, 2014, 488, 022033.	0.4	0
414	Recombination of open-4f-shell W^{18+} ions with free electrons. Journal of Physics: Conference Series, 2014, 488, 062015.	0.4	0

#	ARTICLE	IF	CITATIONS
415	Forward-angle electron spectroscopy in heavy-ion atom collisions studied at the ESR. Journal of Physics: Conference Series, 2015, 635, 022005.	0.4	0
416	Electron-impact ionization of tungsten ions. Journal of Physics: Conference Series, 2015, 635, 052040.	0.4	0
417	Main magnetic focus ion source, state-of-the-art technology for production of highly charged ions. Journal of Physics: Conference Series, 2015, 635, 022021.	0.4	0
418	Simultaneous measurement of photorecombination and electron-impact ionization of Fe ¹⁴⁺ ions. Journal of Physics: Conference Series, 2015, 635, 052002.	0.4	0
419	Photoionization and photofragmentation of multiply charged Lu ₃ N@C ₈₀ ions. Journal of Physics: Conference Series, 2015, 635, 112120.	0.4	0
420	A continuous, broadband data acquisition for Schottky signals in atomic and nuclear physics experiments at heavy-ion storage rings. Journal of Physics: Conference Series, 2015, 635, 022085.	0.4	0
421	Stepwise contraction of the nf Rydberg shells in the 3d photoionization of multiply-charged xenon ions. Journal of Physics: Conference Series, 2015, 635, 092002.	0.4	0
422	Electron-ion recombination of the open-4f-shell ion W ¹⁹⁺ . Journal of Physics: Conference Series, 2015, 635, 052003.	0.4	0
423	Special issue on atomic & molecular data for astrophysicists. Journal of Physics B: Atomic, Molecular and Optical Physics, 2015, 48, 170201.	1.5	0
424	Upgrade of the Main Magnetic Focus Ion Trap in Giessen. Journal of Physics: Conference Series, 2017, 875, 092027.	0.4	0
425	Prominent role of indirect processes in electron-impact ionization of Xe ²⁴⁺ ions. Journal of Physics: Conference Series, 2017, 875, 052048.	0.4	0
426	Photoionization and photofragmentation of $\{\{m\{Sc\}\}_3\{\{m\{N@C\}\}_80\}^{\{+\}\}$ at energies from the carbon K edge to the scandium L and nitrogen K edges. Journal of Physics: Conference Series, 2017, 875, 032033.	0.4	0
427	Photoionization of Ne ^{+</sup>} ions and Ne atoms near the K edge. Journal of Physics: Conference Series, 2017, 875, 022044.	0.4	0
428	Photoionization and photofragmentation of $\{\{m\{Lu\}\}_3\{\{m\{N@C\}\}_80\}^{\{m\{q\}\}+\}$ ions (q = 1,2,3). Journal of Physics: Conference Series, 2017, 875, 032034.	0.4	0
429	Photorecombination of berylliumlike and boronlike silicon ions. Journal of Physics: Conference Series, 2017, 875, 052005.	0.4	0
430	Multi-electron processes in K-shell double and triple photodetachment of oxygen anions. Journal of Physics: Conference Series, 2017, 875, 022004.	0.4	0
431	Commissioning of a high-power electron gun for electron-ion crossed-beams experiments. Journal of Physics: Conference Series, 2017, 875, 052037.	0.4	0
432	First experimental results from a new high-power electron gun: Electron-impact ionisation of multiply charged xenon ions. Journal of Physics: Conference Series, 2020, 1412, 152009.	0.4	0

#	ARTICLE	IF	CITATIONS
433	Dielectronic Recombination of Very Heavy Lithiumlike Ions. , 2003, , 41-45.		0
434	Enhancement of Dielectronic Recombination by External Electromagnetic Fields. , 2003, , 23-27.		0
435	Resonant recombination at ion storage rings: a conceptual alternative for isotope shift and hyperfine studies. , 2010, , 115-127.		0
436	Recombination of free electrons with U28+ ions. , 1991, , 205-206.		0
437	Experiments with highly-charged ions in the storage ring TSR. , 1991, , 69-75.		0
438	Resonances in the electron-impact single and multiple ionization of ions. , 1991, , 189-191.		0