

# Alfred Muller

## 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.

427  
papers

8,681  
citations

49  
h-index

69  
g-index

441  
ext. papers

9,136  
ext. citations

2.5  
avg, IF

5.48  
L-index

#	Paper	IF	Citations
427	Near K-edge Photoionization and Photoabsorption of Singly, Doubly, and Triply Charged Silicon Ions. <i>Astrophysical Journal</i> , <b>2022</b> , 931, 100	4.7	0
426	Non-dipole anisotropy parameters in the photoionization of Kr in the region of deep inner shell excitations. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , <b>2022</b> , 147209	1.7	0
425	Multiple photodetachment of silicon anions via K-shell excitation and ionization. <i>Physical Review A</i> , <b>2021</b> , 104,	2.6	2
424	Direct double ionization of the Ar+ M shell by a single photon. <i>Physical Review A</i> , <b>2021</b> , 103,	2.6	1
423	Experimental studies on photoabsorption by endohedral fullerene ions with a focus on Xe@C60 + confinement resonances. <i>Physica Scripta</i> , <b>2021</b> , 96, 064004	2.6	2
422	Near L-edge Single and Multiple Photoionization of Doubly Charged Iron Ions. <i>Astrophysical Journal</i> , <b>2021</b> , 908, 52	4.7	10
421	Role of L-shell single and double core-hole production and decay in m-fold (1h̄B) photoionization of the Ar+ ion. <i>Physical Review A</i> , <b>2021</b> , 104,	2.6	5
420	PAMOP2: State-of-the-Art Computations for Atomic, Molecular and Optical Processes <b>2021</b> , 33-63		
419	Disentangling the Photodissociation Dynamics of the HF Molecular Radical via Kinetic-Energy-Release-Resolved F 1s Core Excitation and Ionization. <i>Journal of Physical Chemistry Letters</i> , <b>2021</b> , 12, 1390-1395	6.4	2
418	Multiple Photodetachment of Carbon Anions via Single and Double Core-Hole Creation. <i>Physical Review Letters</i> , <b>2020</b> , 124, 083203	7.4	16
417	Multiple photodetachment of atomic anions via single and double core-hole creation. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , <b>2020</b> , 53, 192001	1.3	3
416	Electron-impact single ionisation of W q+ ions: experiment and theory for 11 ≤ q ≤ 18. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , <b>2020</b> , 53, 015201	1.3	7
415	Electron-impact ionisation of Wq+ ions with 1 ≤ q ≤ 19. <i>Journal of Physics: Conference Series</i> , <b>2020</b> , 1412, 152011	0.3	
414	Photoionization of low-charged silicon ions. <i>Journal of Physics: Conference Series</i> , <b>2020</b> , 1412, 152024	0.3	1
413	Photoionization and photofragmentation of singly charged positive and negative Sc3N@C80 endohedral fullerene ions. <i>Journal of Physics: Conference Series</i> , <b>2020</b> , 1412, 202027	0.3	1
412	First experimental results from a new high-power electron gun: Electron-impact ionisation of multiply charged xenon ions. <i>Journal of Physics: Conference Series</i> , <b>2020</b> , 1412, 152009	0.3	
411	Photoionization of Astrophysically Relevant Atomic Ions at PIPE. <i>Atoms</i> , <b>2020</b> , 8, 45	2.1	5

410	The photon-ion merged-beams experiment PIPE at PETRA III the first five years. <i>X-Ray Spectrometry</i> , <b>2020</b> , 49, 11-20	0.9	13
409	Photoionization and photofragmentation of singly charged positive and negative Sc <sub>3</sub> N@C <sub>80</sub> endohedral fullerene ions. <i>Physical Review A</i> , <b>2019</b> , 99,	2.6	17
408	Photoionization of tungsten ions: experiment and theory for W <sup>5+</sup> . <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , <b>2019</b> , 52, 195005	1.3	4
407	Spin asymmetry in electron-impact ionization. <i>Physical Review A</i> , <b>2019</b> , 100,	2.6	3
406	Inner-shell X-ray absorption spectra of the cationic series NH (y = 0-3). <i>Physical Chemistry Chemical Physics</i> , <b>2019</b> , 21, 16505-16514	3.6	15
405	Roadmap on photonic, electronic and atomic collision physics: I. Light-matter interaction. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , <b>2019</b> , 52, 171001	1.3	28
404	PAMOP2: Towards Exascale Computations Supporting Experiments and Astrophysics <b>2019</b> , 37-61		2
403	Near-L-edge Single and Multiple Photoionization of Triply Charged Iron Ions. <i>Astrophysical Journal</i> , <b>2019</b> , 887, 189	4.7	12
402	Electron-impact ionization of W <sup>5+</sup> . <i>Physical Review A</i> , <b>2019</b> , 100,	2.6	15
401	Absorption spectra at the iodine 3d ionisation threshold following the CHI (x = 0-3) cation sequence. <i>Physical Chemistry Chemical Physics</i> , <b>2019</b> , 21, 25415-25424	3.6	2
400	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> , <b>2019</b> , 52, 035202	1.3	1
399	Indirect contributions to electron-impact ionization of Li <sup>+</sup> (1s2sS <sup>13</sup> ) ions: Role of intermediate double-K-vacancy states. <i>Physical Review A</i> , <b>2018</b> , 97,	2.6	8
398	Photoabsorption of the molecular IH cation at the iodine 3d absorption edge. <i>Physical Review A</i> , <b>2018</b> , 97,	2.6	10
397	PAMOP: Large-Scale Calculations Supporting Experiments and Astrophysical Applications <b>2018</b> , 37-59		2
396	Near-K-edge single, double, and triple photoionization of C <sup>+</sup> ions. <i>Physical Review A</i> , <b>2018</b> , 97,	2.6	15
395	Near-K-Edge Double and Triple Detachment of the F <sup>-</sup> Negative Ion: Observation of Direct Two-Electron Ejection by a Single Photon. <i>Physical Review Letters</i> , <b>2018</b> , 120, 133202	7.4	14
394	Photoionization of metastable heliumlike C <sup>4+</sup> (1s2sS <sup>13</sup> ) ions: Precision study of intermediate doubly excited states. <i>Physical Review A</i> , <b>2018</b> , 98,	2.6	17
393	Photoionization of Ne Atoms and Ne <sup>+</sup> Ions Near the K Edge: Precision Spectroscopy and Absolute Cross-sections. <i>Astrophysical Journal</i> , <b>2017</b> , 836, 166	4.7	38

392	Commissioning of a powerful electron gun for electron-ion crossed-beams experiments. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2017</b> , 408, 317-322	1.2	3
391	Photoionization of tungsten ions: experiment and theory for $\text{W}^{4+}$ . <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , <b>2017</b> , 50, 085007	1.3	5
390	Recombination of open-f-shell tungsten ions. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , <b>2017</b> , 50, 052001	1.3	8
389	Upgrade of the Main Magnetic Focus Ion Trap in Giessen. <i>Journal of Physics: Conference Series</i> , <b>2017</b> , 875, 092027	0.3	
388	Prominent role of indirect processes in electron-impact ionization of $\text{Xe}^{24+}$ ions. <i>Journal of Physics: Conference Series</i> , <b>2017</b> , 875, 052048	0.3	
387	Cross sections for photoionization of fullerene molecular ions $\text{C}_n^+$ with $n = 40, 50, 70, 76, 78,$ and $84$ . <i>Physical Review A</i> , <b>2017</b> , 95,	2.6	9
386	Photoionisation of $\text{Ca}^+$ ions in the valence-energy region 2056 eV: experiment and theory. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , <b>2017</b> , 50, 205001	1.3	3
385	Photorecombination of berylliumlike and boronlike silicon ions. <i>Journal of Physics: Conference Series</i> , <b>2017</b> , 875, 052005	0.3	
384	Developments towards a transverse free-electron target for the storage ring CRYRING@ESR. <i>Journal of Physics: Conference Series</i> , <b>2017</b> , 875, 052040	0.3	1
383	Multi-electron processes in K-shell double and triple photodetachment of oxygen anions. <i>Journal of Physics: Conference Series</i> , <b>2017</b> , 875, 022004	0.3	
382	Commissioning of a high-power electron gun for electron-ion crossed-beams experiments. <i>Journal of Physics: Conference Series</i> , <b>2017</b> , 875, 052037	0.3	
381	Dielectronic resonances in highly-charged heavy ions observed in ion traps. <i>Journal of Physics: Conference Series</i> , <b>2017</b> , 875, 052026	0.3	1
380	Electron-impact Multiple-ionization Cross Sections for Atoms and Ions of Helium through Zinc. <i>Astrophysical Journal</i> , <b>2017</b> , 850, 122	4.7	11
379	Relativistic configuration-interaction calculations of the energy levels of the $1s2l$ and $1s2l2l'$ states in lithiumlike ions: Carbon through chlorine. <i>Physical Review A</i> , <b>2017</b> , 96,	2.6	16
378	Near-L-edge Single and Multiple Photoionization of Singly Charged Iron Ions. <i>Astrophysical Journal</i> , <b>2017</b> , 849, 5	4.7	26
377	Photoionization and photofragmentation of $\text{Sc}_3\text{N@C}_{80}^{+q}$ at energies from the carbon K edge to the scandium L and nitrogen K edges. <i>Journal of Physics: Conference Series</i> , <b>2017</b> , 875, 032033	0.3	
376	Photoionization of $\text{Ne}^+$ ions and Ne atoms near the K edge. <i>Journal of Physics: Conference Series</i> , <b>2017</b> , 875, 022044	0.3	
375	Photoionization and photofragmentation of $\text{Lu}_3\text{N@C}_{80}^{+q}$ ions ( $q = 1, 2, 3$ ). <i>Journal of Physics: Conference Series</i> , <b>2017</b> , 875, 032034	0.3	

374	Electron-impact single ionization of W19+ ions. <i>Physical Review A</i> , <b>2016</b> , 93,	2.6	17
373	Photoionization and photofragmentation of the C60+ molecular ion. <i>Physical Review A</i> , <b>2016</b> , 93,	2.6	11
372	Strong asymmetry of the electron-loss-to-continuum cusp of multielectron U28+ projectiles in near-relativistic collisions with gaseous targets. <i>Physical Review A</i> , <b>2016</b> , 93,	2.6	8
371	Recombination of W19+ ions with electrons: Absolute rate coefficients from a storage-ring experiment and from theoretical calculations. <i>Physical Review A</i> , <b>2016</b> , 93,	2.6	18
370	Storage ring cross section measurements for electron impact ionization of Fe8+. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , <b>2016</b> , 49, 084006	1.3	3
369	Prominent role of multielectron processes in K-shell double and triple photodetachment of oxygen anions. <i>Physical Review A</i> , <b>2016</b> , 94,	2.6	25
368	Photoionisation of ions with synchrotron radiation: from ions in space to atoms in cages. <i>Contemporary Physics</i> , <b>2016</b> , 57, 215-229	3.3	44
367	Absolute rate coefficients for photorecombination of beryllium-like and boron-like silicon ions. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , <b>2016</b> , 49, 074004	1.3	3
366	Photoionization of tungsten ions: experiment and theory for $\{\text{W}\}^{2+}$ and $\{\text{W}\}^{3+}$ . <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , <b>2016</b> , 49, 065201	1.3	13
365	PAMOP Project: Petaflop Computations in Support of Experiments <b>2016</b> , 51-74		6
364	PAMOP Project: Computations in Support of Experiments and Astrophysical Applications <b>2016</b> , 33-48		3
363	Physics book: CRYRING@ESR. <i>European Physical Journal: Special Topics</i> , <b>2016</b> , 225, 797-882	2.3	67
362	Absolute measurement of radiative and Auger rates of K-shell vacancy states in highly charged Fe ions. <i>Physical Review A</i> , <b>2015</b> , 91,	2.6	18
361	Electron-capture-to-continuum cusp in U88++N2 collisions. <i>Physical Review A</i> , <b>2015</b> , 91,	2.6	16
360	PAMOP: Petascale Atomic, Molecular and Optical Collision Calculations <b>2015</b> , 47-61		5
359	Precision studies of deep-inner-shell photoabsorption by atomic ions. <i>Physica Scripta</i> , <b>2015</b> , 90, 054004	2.6	26
358	Electron-impact ionization of Xe24+ ions: Theory versus experiment. <i>Physical Review A</i> , <b>2015</b> , 92,	2.6	8
357	Special issue on atomic & molecular data for astrophysicists. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , <b>2015</b> , 48, 170201	1.3	

356	Photoionization and photofragmentation of multiply charged Lu <sub>3</sub> N@C <sub>80</sub> ions. <i>Physical Review A</i> , <b>2015</b> , 92,	2.6	21
355	Single-photon excitation of K $\bar{n}$ heliumlike Kr <sup>34+</sup> : Results supporting quantum electrodynamics predictions. <i>Physical Review A</i> , <b>2015</b> , 92,	2.6	23
354	Subshell-selective x-ray studies of radiative recombination of U <sup>92+</sup> ions with electrons for very low relative energies. <i>Physical Review A</i> , <b>2015</b> , 92,	2.6	3
353	A new data acquisition system for Schottky signals in atomic physics experiments at GSI's and FAIR's storage rings. <i>Physica Scripta</i> , <b>2015</b> , T166, 014062	2.6	2
352	Forward-angle electron spectroscopy in heavy-ion atom collisions studied at the ESR. <i>Journal of Physics: Conference Series</i> , <b>2015</b> , 635, 022005	0.3	
351	Electron-impact ionization of tungsten ions. <i>Journal of Physics: Conference Series</i> , <b>2015</b> , 635, 052040	0.3	
350	Main magnetic focus ion source, state-of-the-art technology for production of highly charged ions. <i>Journal of Physics: Conference Series</i> , <b>2015</b> , 635, 022021	0.3	1
349	Simultaneous measurement of photorecombination and electron-impact ionization of Fe <sup>14+</sup> ions. <i>Journal of Physics: Conference Series</i> , <b>2015</b> , 635, 052002	0.3	
348	Photoionization and photofragmentation of multiply charged Lu <sub>3</sub> N@C <sub>80</sub> ions. <i>Journal of Physics: Conference Series</i> , <b>2015</b> , 635, 112120	0.3	
347	A continuous, broadband data acquisition for Schottky signals in atomic and nuclear physics experiments at heavy-ion storage rings. <i>Journal of Physics: Conference Series</i> , <b>2015</b> , 635, 022085	0.3	
346	Stepwise contraction of the nf Rydberg shells in the 3d photoionization of multiply-charged xenon ions. <i>Journal of Physics: Conference Series</i> , <b>2015</b> , 635, 092002	0.3	
345	Electron-ion recombination of the open-4f-shell ion W <sup>19+</sup> . <i>Journal of Physics: Conference Series</i> , <b>2015</b> , 635, 052003	0.3	
344	Observation of four-electron Auger processes. <i>Journal of Physics: Conference Series</i> , <b>2015</b> , 635, 012033	0.3	2
343	Observation of four-electron Auger processes. <i>Journal of Physics: Conference Series</i> , <b>2015</b> , 635, 092101	0.3	1
342	Single-photon single ionization of W <sup>+</sup> ions: experiment and theory. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , <b>2015</b> , 48, 235203	1.3	16
341	Ab-Initio Calculations of Level Energies, Oscillator Strengths and Radiative Rates for E1 Transitions in Beryllium-Like Iron. <i>Atoms</i> , <b>2015</b> , 3, 2-52	2.1	6
340	Stepwise contraction of thenf Rydberg shells in the 3d photoionization of multiply-charged xenon ions. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , <b>2015</b> , 48, 144003	1.3	11
339	Spectroscopy of berylliumlike xenon ions using dielectronic recombination. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , <b>2015</b> , 48, 144008	1.3	15

338	Fusion-Related Ionization and Recombination Data for Tungsten Ions in Low to Moderately High Charge States. <i>Atoms</i> , <b>2015</b> , 3, 120-161	2.1	36
337	Storage-ring experiments on dielectronic recombination at the interface of atomic and nuclear physics. <i>Physica Scripta</i> , <b>2015</b> , T166, 014022	2.6	7
336	High-resolution dielectronic recombination experiments at the upcoming CRYRING@ESR facility. <i>Journal of Physics: Conference Series</i> , <b>2015</b> , 635, 022084	0.3	1
335	STORAGE RING CROSS SECTION MEASUREMENTS FOR ELECTRON IMPACT IONIZATION OF Fe7+. <i>Astrophysical Journal</i> , <b>2015</b> , 813, 16	4.7	9
334	Electron emission spectra of U28+-ions colliding with gaseous targets. <i>Journal of Physics: Conference Series</i> , <b>2015</b> , 635, 022049	0.3	1
333	Electron-ion collision spectroscopy: Lithium-like xenon ions. <i>Physical Review A</i> , <b>2015</b> , 91,	2.6	14
332	Observation of a four-electron Auger process in near-K-edge photoionization of singly charged carbon ions. <i>Physical Review Letters</i> , <b>2015</b> , 114, 013002	7.4	55
331	Plasma rate coefficients for electron-impact ionization of Xe <sub>q</sub> <sup>+</sup> ions (q= 8, 17). <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , <b>2015</b> , 48, 035203	1.3	8
330	Recombination of W18+ ions with electrons: Absolute rate coefficients from a storage-ring experiment and from theoretical calculations. <i>Physical Review A</i> , <b>2014</b> , 90,	2.6	39
329	Valence-shell photoionization of Ag-like Xe7+ ions: experiment and theory. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , <b>2014</b> , 47, 215202	1.3	13
328	K-shell photoionization of Be-like boron (B <sup>+</sup> ) ions: experiment and theory. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , <b>2014</b> , 47, 135201	1.3	13
327	Experimental investigation of left-right asymmetry in photon-atom interaction. <i>Physical Review A</i> , <b>2014</b> , 90,	2.6	3
326	Absolute rate coefficients for the recombination of open f-shell tungsten ions. <i>Journal of Physics: Conference Series</i> , <b>2014</b> , 488, 012051	0.3	9
325	Electric octupole contribution to the angular distribution of the krypton 4p photoelectrons. <i>Journal of Physics: Conference Series</i> , <b>2014</b> , 488, 022041	0.3	2
324	A setup for ion-beam emittance measurements employed to diagnose plasma ion thrusters. <i>Journal of Physics: Conference Series</i> , <b>2014</b> , 488, 142008	0.3	
323	Single and multiple photoionization of W <sub>q</sub> <sup>+</sup> tungsten ions in charge states q=1,2,...,5: experiment and theory. <i>Journal of Physics: Conference Series</i> , <b>2014</b> , 488, 022032	0.3	7
322	Electron-impact ionization of multiply charged tungsten ions. <i>Journal of Physics: Conference Series</i> , <b>2014</b> , 488, 062026	0.3	4
321	Dielectronic recombination of berylliumlike Xe50+ ions: Measurement and theoretical calculations. <i>Journal of Physics: Conference Series</i> , <b>2014</b> , 488, 062013	0.3	

320	Dielectronic recombination of lithiumlike Xe51+ions: Storage ring experiment and theoretical calculations. <i>Journal of Physics: Conference Series</i> , <b>2014</b> , 488, 062014	0.3	
319	First light on3dphotoionization of multiply charged xenon ions: a new photon-ion merged beam setup at PETRA III. <i>Journal of Physics: Conference Series</i> , <b>2014</b> , 488, 142006	0.3	
318	Photoionization of Xe inside a C+60 cage: a single-molecule electron interferometer. <i>Journal of Physics: Conference Series</i> , <b>2014</b> , 488, 022033	0.3	
317	Recombination of open-4f-shell W18+ ions with free electrons. <i>Journal of Physics: Conference Series</i> , <b>2014</b> , 488, 062015	0.3	
316	Direct and indirect processes in electron-impact ionization of 1s2 1S0 ground-state and 1s2s 3S1 metastable He-like N5+ ions. <i>Journal of Physics: Conference Series</i> , <b>2014</b> , 488, 062024	0.3	
315	Dielectronic recombination of berylliumlike Si10+ions at the heavy-ion storage ring TSR. <i>Journal of Physics: Conference Series</i> , <b>2014</b> , 488, 062012	0.3	
314	Absolute cross sections for photoionization of Xe <sub>q</sub> <sup>+</sup> ions (1 ≤ q ≤ 5) at the 3d ionization threshold. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , <b>2014</b> , 47, 115602	1.3	43
313	High-power electron gun for electron-ion crossed-beams experiments. <i>Journal of Physics: Conference Series</i> , <b>2014</b> , 488, 142007	0.3	2
312	Absolute rate coefficients for photorecombination and electron-impact ionization of magnesiumlike iron ions from measurements at a heavy-ion storage ring. <i>Physical Review A</i> , <b>2014</b> , 90,	2.6	11
311	Radiative-electron-capture-to-continuum cusp in U88++N2 collisions and the high-energy endpoint of electron-nucleus bremsstrahlung. <i>Physical Review A</i> , <b>2014</b> , 90,	2.6	21
310	DoubleK-vacancy states in electron-impact single ionization of metastable two-electron N5+(1s2s 3S1) ions. <i>Physical Review A</i> , <b>2014</b> , 90,	2.6	14
309	Electron-loss-to-continuum cusp in U88++N2 collisions. <i>Physical Review A</i> , <b>2014</b> , 90,	2.6	16
308	Storage-ring measurement of the hyperfine induced 2s2p 3P0 → 2s2 1S0 transition rate in berylliumlike sulfur. <i>Journal of Physics: Conference Series</i> , <b>2014</b> , 488, 062016	0.3	
307	ELECTRON-ION RECOMBINATION OF Fe12 +FORMING Fe11 +: LABORATORY MEASUREMENTS AND THEORETICAL CALCULATIONS. <i>Astrophysical Journal</i> , <b>2014</b> , 788, 46	4.7	5
306	Electron-impact ionization of 4d-shell xenon and tin ions. <i>Journal of Physics: Conference Series</i> , <b>2014</b> , 488, 062025	0.3	
305	Probing nuclear properties by resonant atomic collisions between electrons and ions. <i>Physica Scripta</i> , <b>2013</b> , T156, 014050	2.6	20
304	Single-photon multiple detachment in fullerene negative ions: absolute ionization cross sections and the role of the extra electron. <i>Physical Review Letters</i> , <b>2013</b> , 111, 043003	7.4	18
303	Cross-section measurements with interacting beams <b>2013</b> ,		3



302	STORAGE RING CROSS SECTION MEASUREMENTS FOR ELECTRON IMPACT SINGLE AND DOUBLE IONIZATION OF Fe <sup>13+</sup> +AND SINGLE IONIZATION OF Fe <sup>16+</sup> +AND Fe <sup>17+</sup> . <i>Astrophysical Journal</i> , <b>2013</b> , 767, 47	4.7	17
301	Future experiments using forward electron spectroscopy to study the quantum dynamics of high-Zions at the ESR/CRYRING storage rings. <i>Physica Scripta</i> , <b>2013</b> , T156, 014087	2.6	8
300	Electron-impact ionization of moderately charged xenon ions. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , <b>2013</b> , 46, 215202	1.3	5
299	Probing confinement resonances by photoionizing Xe inside a C <sub>60</sub> + molecular cage. <i>Physical Review A</i> , <b>2013</b> , 88,	2.6	58
298	Detailed investigation of electron-impact single-ionization cross sections and plasma rate coefficients of N-shell tin ions. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , <b>2013</b> , 46, 175207	1.3	11
297	X-ray resonant photoexcitation: linewidths and energies of K $\alpha$ transitions in highly charged Fe ions. <i>Physical Review Letters</i> , <b>2013</b> , 111, 103002	7.4	57
296	Storage ring at HIE-ISOLDE. <i>European Physical Journal: Special Topics</i> , <b>2012</b> , 207, 1-117	2.3	84
295	An unexpectedly low oscillator strength as the origin of the Fe XVII emission problem. <i>Nature</i> , <b>2012</b> , 492, 225-8	50.4	114
294	Enhanced radiative recombination of U <sup>92+</sup> ions with cooling electrons for the K-shell. <i>Journal of Physics: Conference Series</i> , <b>2012</b> , 388, 062044	0.3	
293	ELECTRON-ION RECOMBINATION OF Mg <sup>6+</sup> +FORMING Mg <sup>5+</sup> +AND OF Mg <sup>7+</sup> +FORMING Mg <sup>6+</sup> +: LABORATORY MEASUREMENTS AND THEORETICAL CALCULATIONS. <i>Astrophysical Journal</i> , <b>2012</b> , 758, 40	4.7	18
292	STORAGE RING CROSS-SECTION MEASUREMENTS FOR ELECTRON IMPACT SINGLE AND DOUBLE IONIZATION OF Fe <sup>9+</sup> +AND SINGLE IONIZATION OF Fe <sup>10+</sup> +. <i>Astrophysical Journal</i> , <b>2012</b> , 760, 80	4.7	14
291	High-resolution photoionization of Xe <sup>+</sup> ions: Experiment and theory. <i>Journal of Physics: Conference Series</i> , <b>2012</b> , 388, 022038	0.3	
290	Electron-impact-ionization measurements using hyperfine-assisted state preparation of ground-state berylliumlike sulfur. <i>Physical Review A</i> , <b>2012</b> , 85,	2.6	9
289	Storage-ring measurement of the hyperfine-induced 2s2p 3P <sub>0</sub> ->2s2 1S <sub>0</sub> transition rate in berylliumlike sulfur. <i>Physical Review A</i> , <b>2012</b> , 85,	2.6	30
288	Energy- and angle-resolved spectroscopy of electrons from ion-atom collisions. <i>Journal of Physics: Conference Series</i> , <b>2012</b> , 388, 082051	0.3	
287	ELECTRON-ION RECOMBINATION OF Fe XII FORMING Fe XI: LABORATORY MEASUREMENTS AND THEORETICAL CALCULATIONS. <i>Astrophysical Journal</i> , <b>2012</b> , 753, 57	4.7	15
286	Confinement resonances in photoionization of endohedral Xe@C <sub>60</sub> +. <i>Journal of Physics: Conference Series</i> , <b>2012</b> , 388, 022003	0.3	
285	Electron-impact single and multiple ionization of xenon ions. <i>Journal of Physics: Conference Series</i> , <b>2012</b> , 388, 062024	0.3	

284	Dielectronic recombination of xenonlike tungsten ions. <i>Journal of Physics: Conference Series</i> , <b>2012</b> , 388, 062028	0.3	1
283	Towards a measurement of the $2s2p3P0 \rightarrow 2s2\ 1S0E1M1$ two photon transition rate in Be-like xenon ions. <i>Journal of Physics: Conference Series</i> , <b>2012</b> , 388, 012007	0.3	4
282	High-power electron gun for electron-ion crossed-beams experiments. <i>Journal of Physics: Conference Series</i> , <b>2012</b> , 388, 142020	0.3	
281	Photo-multidetachment and Fragmentation of $C60$ Anions. <i>Journal of Physics: Conference Series</i> , <b>2012</b> , 388, 022039	0.3	2
280	Electron-impact single and double ionization of tin ions. <i>Journal of Physics: Conference Series</i> , <b>2012</b> , 388, 062023	0.3	
279	K-shell photoionization of Be-like B <sup>+</sup> ions. <i>Journal of Physics: Conference Series</i> , <b>2012</b> , 388, 022101	0.3	
278	Photon-ion spectrometer PIPE at the Variable Polarization XUV Beamline of PETRA III. <i>Journal of Physics: Conference Series</i> , <b>2012</b> , 388, 142016	0.3	2
277	Electron-impact single-ionization of Ar <sup>5+</sup> ions. <i>Journal of Physics: Conference Series</i> , <b>2012</b> , 388, 062026	0.3	1
276	Electron-impact single-ionization of Ar <sup>6+</sup> ions. <i>Journal of Physics: Conference Series</i> , <b>2012</b> , 388, 062027	0.3	2
275	Storage ring meets astrophysics: Dielectronic recombination of L-shell and M-shell iron ions. <i>Journal of Physics: Conference Series</i> , <b>2012</b> , 388, 062029	0.3	
274	Strong quadrupole interaction between the krypton 4p photoionization and 3d resonant excitation channels. <i>Journal of Physics: Conference Series</i> , <b>2012</b> , 388, 022005	0.3	
273	Dielectronic recombination of metastable berylliumlike xenon ions. <i>Journal of Physics: Conference Series</i> , <b>2012</b> , 388, 062036	0.3	
272	Asymmetric photoelectron emission from the krypton 4p shell in the vicinity of 3d resonant excitations. <i>Journal of Physics: Conference Series</i> , <b>2012</b> , 388, 022004	0.3	
271	Electron impact ionization measurements at the Heidelberg heavy ion storage ring TSR. <i>Journal of Physics: Conference Series</i> , <b>2012</b> , 388, 062021	0.3	
270	Electron-impact single and double ionization of W <sup>17+</sup> ions. <i>Journal of Physics: Conference Series</i> , <b>2012</b> , 388, 062022	0.3	
269	ADDENDUM: STORAGE RING MEASUREMENT OF ELECTRON IMPACT IONIZATION FOR Mg <sup>7+</sup> + FORMING Mg <sup>8+</sup> [(2010, ApJ, 712, 1166)]. <i>Astrophysical Journal</i> , <b>2012</b> , 761, 77	4.7	
268	ADDENDUM: STORAGE RING CROSS SECTION MEASUREMENTS FOR ELECTRON IMPACT IONIZATION OF Fe <sup>11+</sup> + FORMING Fe <sup>12+</sup> + AND Fe <sup>13+</sup> [(2011, ApJ, 729, 76)]. <i>Astrophysical Journal</i> , <b>2012</b> , 761, 78	4.7	
267	ADDENDUM: STORAGE RING CROSS-SECTION MEASUREMENTS FOR ELECTRON IMPACT IONIZATION OF Fe <sup>12+</sup> + FORMING Fe <sup>13+</sup> + AND Fe <sup>14+</sup> [(2011, ApJ, 735, 105)]. <i>Astrophysical Journal</i> , <b>2012</b> , 761, 79	4.7	1

266	Dielectronic recombination of in-flight synthesized exotic isotopes. <i>Journal of Physics: Conference Series</i> , <b>2012</b> , 388, 062042	0.3	7
265	Towards a storage-ring measurement of the hyperfine induced $2s2p^3P^0 \rightarrow 2s2^1S_0$ transition rate in berylliumlike sulfur. <i>Journal of Physics: Conference Series</i> , <b>2012</b> , 388, 152004	0.3	
264	Electrospray ionization source for collision experiments with keV-beams of biomolecular ions. <i>Journal of Physics: Conference Series</i> , <b>2012</b> , 388, 142004	0.3	
263	Photoionization of singly and multiply charged tungsten ions. <i>Journal of Physics: Conference Series</i> , <b>2012</b> , 388, 022037	0.3	2
262	X-ray laser spectroscopy with an electron beam ion trap at the free electron laser LCLS. <i>Journal of Physics: Conference Series</i> , <b>2012</b> , 388, 032037	0.3	1
261	Breit interaction in dielectronic recombination of H-like uranium. <i>Journal of Physics: Conference Series</i> , <b>2012</b> , 388, 062034	0.3	
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253	Photoionization measurements for the iron isonuclear sequence $Fe^{3+}$ , $Fe^{5+}$ , and $Fe^{7+}$ . <i>Physical Review A</i> , <b>2011</b> , 83,	2.6	12
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243	Resonant recombination at ion storage rings: a conceptual alternative for isotope shift and hyperfine studies <b>2010</b> , 115-127		
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239	Electron-impact ionization of B <sup>3+</sup> ions. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , <b>2009</b> , 42, 175203	1.3	10
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234	Low-energy collisions with atomic and molecular ions in a photocathode electron target. <i>Journal of Physics: Conference Series</i> , <b>2009</b> , 194, 012024	0.3	7
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231	Experimental confirmation of left-right asymmetry in photoionization. <i>Journal of Physics: Conference Series</i> , <b>2009</b> , 194, 012003	0.3	2

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229	Experimental absolute cross section for photoionization of Xe7+. <i>Journal of Physics: Conference Series</i> , <b>2009</b> , 194, 022094	0.3	3
228	Electron impact ionization of ground-state and metastable Li+ions. <i>Journal of Physics: Conference Series</i> , <b>2009</b> , 194, 062002	0.3	
227	Electron impact ionization of xenon ions. <i>Journal of Physics: Conference Series</i> , <b>2009</b> , 194, 062014	0.3	5
226	Observation of enhancement in K-shell radiative recombination of U92+ions with cooling electrons. <i>Journal of Physics: Conference Series</i> , <b>2009</b> , 194, 062017	0.3	1
225	PIPE: A versatile photon-ion spectrometer at PETRAIII. <i>Journal of Physics: Conference Series</i> , <b>2009</b> , 194, 142012	0.3	5
224	Resonance phenomena in electron-ion and photon-ion collisions. <i>Journal of Physics: Conference Series</i> , <b>2009</b> , 194, 012002	0.3	5
223	Experimental confirmation of left-right asymmetry in photoionization. <i>Journal of Physics: Conference Series</i> , <b>2009</b> , 194, 022051	0.3	3
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211	Scully et al. Reply. <i>Physical Review Letters</i> , <b>2007</b> , 98,	7.4	22
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208	Photorecombination studies of highly charged ions at the storage ring ESR: a progress report. <i>Journal of Physics: Conference Series</i> , <b>2007</b> , 58, 81-86	0.3	2
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148	Storage Ring Measurement of the CivRecombination Rate Coefficient. <i>Astrophysical Journal</i> , <b>2001</b> , 555, 1027-1037	4.7	91
147	Influence of electromagnetic fields on the dielectronic recombination of Ne7+ ions. <i>Physical Review A</i> , <b>2001</b> , 64,	2.6	13
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145	Recombination in electron coolers. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2000</b> , 441, 183-190	1.2	23
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143	Resonant indirect processes in electron-impact single ionization of Ne7+ ions. <i>Physical Review A</i> , <b>2000</b> , 63,	2.6	10
142	Influence of magnetic fields on electron-Ion recombination at very low energies. <i>Physical Review Letters</i> , <b>2000</b> , 84, 4822-5	7.4	86
141	Recombination of bare Bi83+ ions with electrons. <i>Physical Review A</i> , <b>2000</b> , 63,	2.6	36

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139	Autoionizing resonances in electron-impact ionization of O <sup>5+</sup> ions. <i>Physical Review A</i> , <b>2000</b> , 62,	2.6	17
138	Dielectronic recombination of lithiumlike Ni <sup>25+</sup> ions: High-resolution rate coefficients and influence of external crossed electric and magnetic fields. <i>Physical Review A</i> , <b>2000</b> , 62,	2.6	43
137	Dielectronic Recombination in Photoionized Gas. II. Laboratory Measurements for Fe xviii and Fe xix. <i>Astrophysical Journal, Supplement Series</i> , <b>1999</b> , 123, 687-702	8	59
136	New light on electron-ion collisions from heavy-ion storage ring experiments. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , <b>1999</b> , 357, 1279-1296	3	13
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131	Plasma rate coefficients for highly charged ion-electron collisions: new experimental access via ion storage rings. <i>International Journal of Mass Spectrometry</i> , <b>1999</b> , 192, 9-22	1.9	37
130	Electron-Impact Ionization and Recombination of Highly Charged Ions <b>1999</b> , 272-290		3
129	Recombination of U <sup>89+</sup> ions with free electrons at the ESR <b>1998</b> , 114, 263-266		5
128	Recombination of Sc <sup>3+</sup> ions with free electrons <b>1998</b> , 114, 273-276		4
127	Recent dielectronic recombination experiments <b>1998</b> , 114, 229-235		3
126	Dielectronic recombination of lithium-like gold: Towards QED tests <b>1998</b> , 114, 45-48		12
125	Recombination of Au <sup>25+</sup> with free electrons at low energies <b>1998</b> , 114, 257-261		1
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115	Measurement of field effects on dielectronic recombination of Si11+ ions <b>1997</b> , 108, 177-183		3
114	Laser-induced electron-ion recombination used to study enhanced spontaneous recombination during electron cooling <b>1997</b> , 108, 273-281		8
113	Recombination measurements at low energies with Au49+,50+,51+ at the TSR <b>1997</b> , 108, 149-154		29
112	Recombination measurements at low energies with Ar16+ and Ar18+ ions in a dense, cold electron target <b>1997</b> , 108, 167-175		18
111	Fundamentals of electron-ion interaction. <i>Hyperfine Interactions</i> , <b>1996</b> , 99, 31-45	0.8	12
110	Recombination of electrons with highly charged heavy ions at very low energies. <i>Hyperfine Interactions</i> , <b>1996</b> , 99, 295-300	0.8	19
109	Resonant electron impact ionization and recombination of Li-like Cl14+ and Si11+ at the Heidelberg Test Storage Ring. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>1995</b> , 98, 142-145	1.2	32
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