

Th StÃ¶hlker

List of Publications by Year in descending order

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Version: 2024-02-01

48
papers

1,658
citations

331259

21
h-index

276539

41
g-index

49
all docs

49
docs citations

49
times ranked

1017
citing authors

#	ARTICLE	IF	CITATIONS
1	Radiative electron capture in relativistic ion-atom collisions and the photoelectric effect in hydrogen-like high-Z systems. <i>Physics Reports</i> , 2007, 439, 1-99.	10.3	233
2	Quantum Electrodynamics in Strong Electric Fields: The Ground-State Lamb Shift in Hydrogenlike Uranium. <i>Physical Review Letters</i> , 2005, 94, 223001.	2.9	185
3	Physics book: CRYRING@ESR. <i>European Physical Journal: Special Topics</i> , 2016, 225, 797-882.	1.2	101
4	Measurement of the ground-state lambshift of hydrogenlike uranium at the electron cooler of the ESR. <i>Zeitschrift für Physik D-Atoms Molecules and Clusters</i> , 1995, 35, 169-175.	1.0	91
5	All the fun of the FAIR: fundamental physics at the facility for antiproton and ion research. <i>Physica Scripta</i> , 2019, 94, 033001.	1.2	79
6	High-Precision X-Ray Polarimetry. <i>Physical Review Letters</i> , 2013, 110, 254801.	2.9	77
7	Nuclear physics with unstable ions at storage rings. <i>Progress in Particle and Nuclear Physics</i> , 2013, 73, 84-140.	5.6	76
8	Radiative recombination into high-Z few-electron ions: Cross sections and angular distributions. <i>Physical Review A</i> , 2005, 72, .	1.0	70
9	Strong Alignment Observed for the Time-Reversed Photoionization Process Studied in Relativistic Collisions with Bare Uranium Ions. <i>Physical Review Letters</i> , 1997, 79, 3270-3273.	2.9	62
10	Polarization studies on the radiative recombination of highly charged bare ions. <i>Physical Review A</i> , 2003, 68, .	1.0	53
11	High-resolution measurement of the time-modulated orbital electron capture and of the decay of hydrogen-like $^{142}\text{Pm}60+$ ions. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2013, 726, 638-645.		
12	Electron-Electron Interaction in Strong Electromagnetic Fields: The Two-Electron Contribution to the Ground-State Energy in He-like Uranium. <i>Physical Review Letters</i> , 2004, 92, 203004.	2.9	50
13	SPARC collaboration: new strategy for storage ring physics at FAIR. <i>Hyperfine Interactions</i> , 2014, 227, 45-53.	0.2	47
14	The Heidelberg compact electron beam ion traps. <i>Review of Scientific Instruments</i> , 2018, 89, 063109.	0.6	43
15	APPA at FAIR: From fundamental to applied research. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2015, 365, 680-685.	0.6	41
16	Recombination of bare Bi^{83+} ions with electrons. <i>Physical Review A</i> , 2000, 63, .	1.0	39
17	Recombination of U^{92+} ions with electrons. <i>European Physical Journal D</i> , 2001, 15, 145-154.	0.6	37
18	Heteronuclear Limit of Strong-Field Ionization: Fragmentation of HeH^+ by Intense Ultrashort Laser Pulses. <i>Physical Review Letters</i> , 2018, 121, 073203.	2.9	28

#	ARTICLE	IF	CITATIONS
19	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, .	1.0	25
20	High Resolution Photoexcitation Measurements Exacerbate the Long-Standing Fe XVII Oscillator Strength Problem. Physical Review Letters, 2020, 124, 225001.	2.9	25
21	Structure of very heavy few-electron ions – new results from the heavy ion storage ring, ESR. Physica Scripta, 1994, T51, 28-38.	1.2	21
22	Towards FAIR: first measurements of metallic magnetic calorimeters for high-resolution x-ray spectroscopy at GSI. Physica Scripta, 2015, T166, 014054.	1.2	21
23	Electron-capture-to-continuum cusp in $U^{88++}N_2$ collisions. Physical Review A, 2015, 91, .	1.0	20
24	Electron-loss-to-continuum cusp in $U^{88++}N_2$ collisions. Physical Review A, 2014, 90, .	1.0	17
25	Momentum-resolved study of the saturation intensity in multiple ionization. Physical Review A, 2015, 91, .	1.0	17
26	State-selective x-ray studies of radiative recombination into bare and H-like uranium at threshold energies. Physical Review A, 2008, 77, .	1.0	15
27	The Balmer spectrum of H-like uranium produced by radiative recombination at low velocities. Radiation Physics and Chemistry, 2006, 75, 1740-1743.	1.4	13
28	New test of modulated electron capture decay of hydrogen-like ^{142}Pm ions: Precision measurement of purely exponential decay. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 797, 134800.	1.5	13
29	Polarization of the Lyman- α Line Following the Radiative Recombination of Bare, High-Z Ions. Hyperfine Interactions, 2003, 146/147, 35-40.	0.2	11
30	Strong asymmetry of the electron-loss-to-continuum cusp of multielectron U^{88++} in near-relativistic collisions with gaseous targets. Physical Review A, 2016, 93, .	1.0	11
31	A 410 MHz resonant cavity pickup for heavy ion storage rings. Review of Scientific Instruments, 2020, 91, 083303.	0.6	9
32	Two-photon energy distribution from the decay of the $2s$ state in He-like uranium. Physical Review A, 2013, 87, .	1.0	8
33	QED corrections to radiative recombination and radiative decay of heavy hydrogenlike ions. Physical Review A, 2015, 92, .	1.0	8
34	High-Precision Determination of Oxygen $K\alpha$ Transition Energy Excludes Incongruent Motion of Interstellar Oxygen. Physical Review Letters, 2020, 124, 243201.	2.9	8
35	Radiative electron capture to the continuum in $U^{88++}N_2$ collisions. Physical Review A, 2015, 91, .	1.0	8
36	X-ray emission associated with radiative recombination for Pb^{82++} ions at threshold energies. Physical Review A, 2022, 105, .	1.0	8

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37	Subshell-selective x-ray studies of radiative recombination of U with electrons for very low relative energies. Physical Review A, 2015, 92, .	1.0	7
38	Laser-induced acceleration of Helium ions from unpolarized gas jets. Plasma Physics and Controlled Fusion, 2019, 61, 115012.	0.9	7
39	Observation of strong two-electron- α one-photon transitions in few-electron ions. Physical Review A, 2020, 102, .	1.0	7
40	Possible Polarization Measurements in Elastic Scattering at the Gamma Factory Utilizing a 2D Sensitive Strip Detector as Dedicated Compton Polarimeter. Annalen Der Physik, 2022, 534, .	0.9	5
41	Electron-loss-to-continuum cusp in collisions of N with U .	1.0	3
42	Charge state tailoring of relativistic heavy ion beams for the Gamma Factory project at CERN. X-Ray Spectrometry, 2020, 49, 25-28.	0.9	2
43	Opportunities for measurements of astrophysical- α relevant alpha- α capture reaction rates at CRYRING@ESR. X-Ray Spectrometry, 2020, 49, 129-132.	0.9	2
44	A scintillator-based particle detector for CRYRING@ESR. X-Ray Spectrometry, 2020, 49, 338-341.	0.9	1
45	Experimental study of the laser-induced ionization of heavy metal and metalloid ions: Au^+ and Si^{2+} in intense and sculpted femtosecond laser fields. Journal of Physics B: Atomic, Molecular and Optical Physics, 2021, 54, 174002.	0.6	1
46	Advanced X-ray polarimeter design for nuclear resonant scattering. Journal of Synchrotron Radiation, 2021, 28, 120-124.	1.0	1
47	A new benchmark of soft X-ray transition energies of Ne , CO_2 , and SF_6 : paving a pathway towards ppm accuracy. European Physical Journal D, 2022, 76, 38.	0.6	1
48	Heteronuclear Limit of Strong-Field Ionization: Laser-Induced Fragmentation of HeH^+ . , 2019, , .		0