Th StÃ¶hlker

List of Publications by Year
in descending order

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	A new benchmark of soft X-ray transition energies of $$mathrm {Ne}$$, $$mathrm {CO}_2$$, and $$mathrm {SF}_6$$: paving a pathway towards ppm accuracy. European Physical Journal D, 2022, 76, 38.	0.6	1
2	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
3	X-ray emission associated with radiative recombination for <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msup><mml:mi mathvariant="normal">Pb</mml:mi><mml:mrow><mml:mn>82</mml:mn><mml:mo>+</mml:mo></mml:mrow></mml:msup></mml:ma	1.0	8
4	Electron-loss-to-continuum cusp in collisions of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msup><mml:mrow><mml:mi mathvariant="normal">U</mml:mi></mml:mrow><mml:mrow><mml:mn>89</mml:mn><mml:mo>+</mml:mo></mml:mrow></mml:ms with <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow><mml:mi mathvariant="normal">N</mml:mi></mml:mrow><mml:mn>2</mml:mn></mml:msub></mml:math> and ions at threshold energies. Physical Review A, 2022, 105, .	1.0	3
5	Experimental study of the laser-induced ionization of heavy metal and metalloid ions: Au+ and Si2+ in intense and sculpted femtosecond laser fields. Journal of Physics B: Atomic, Molecular and Optical Physics, 2021, 54, 174002.	0.6	1
6	Advanced X-ray polarimeter design for nuclear resonant scattering. Journal of Synchrotron Radiation, 2021, 28, 120-124.	1.0	1
7	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
8	Opportunities for measurements of astrophysicalâ€relevant alphaâ€capture reaction rates at CRYRING@ESR. X-Ray Spectrometry, 2020, 49, 129-132.	0.9	2
9	A scintillatorâ€based particle detector for CRYRING@ESR. X-Ray Spectrometry, 2020, 49, 338-341.	0.9	1
10	A 410 MHz resonant cavity pickup for heavy ion storage rings. Review of Scientific Instruments, 2020, 91, 083303.	0.6	9
11	Observation of strong two-electronâ€“one-photon transitions in few-electron ions. Physical Review A, 2020, 102, .	1.0	7
12	High-Precision Determination of Oxygen <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>K</mml:mi></mml:mrow><mml:mrow><mml:mi> Transition Energy Excludes Incongruent Motion of Interstellar Oxygen. Physical Review Letters, 2020, 125, 243001.	2.9	8
13	High Resolution Photoexcitation Measurements Exacerbate the Long-Standing Fe XVII Oscillator Strength Problem. Physical Review Letters, 2020, 124, 225001.	2.9	25
14	Radiative electron capture to the continuum in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msup><mml:mrow><mml:mi mathvariant="normal">U</mml:mi></mml:mrow><mml:mrow><mml:mn>89</mml:mn><mml:mo>+</mml:mo></mml:mrow></mml:ms mathvariant="normal">N</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math> collisions: Experiment and theory. Physical Review A, 2020, 101, .	1.0	8
15	Laser-induced acceleration of Helium ions from unpolarized gas jets. Plasma Physics and Controlled Fusion, 2019, 61, 115012.	0.9	7
16	Heteronuclear Limit of Strong-Field Ionization: Laser-Induced Fragmentation of HeH+. , 2019, , .		0
17	New test of modulated electron capture decay of hydrogen-like 142Pm ions: Precision measurement of purely exponential decay. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 797, 134800.	1.5	13
18	All the fun of the FAIR: fundamental physics at the facility for antiproton and ion research. Physica Scripta, 2019, 94, 033001.	1.2	79

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19	Heteronuclear Limit of Strong-Field Ionization: Fragmentation of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msup><mml:mrow><mml:mi>HeH</mml:mi></mml:mrow><mml:mrow><mml:mo>+</mml:mo></ by Intense Ultrashort Laser Pulses. Physical Review Letters, 2018, 121, 073203.	2.9	28
20	The Heidelberg compact electron beam ion traps. Review of Scientific Instruments, 2018, 89, 063109.	0.6	43
21	Physics book: CRYRING@ESR. European Physical Journal: Special Topics, 2016, 225, 797-882.	1.2	101
22	Strong asymmetry of the electron-loss-to-continuum cusp of multielectron<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msup><mml:mrow><mml:mi mathvariant="normal">U</mml:mi></mml:mrow><mml:mrow><mml:mn>28</mml:mn><mml:mo>+</mml:mo></mml:mrow></mml:ms in near-relativistic collisions with gaseous targets. Physical Review A, 2016, 93, .	1.0	11
23	APPA at FAIR: From fundamental to applied research. Nuclear Instruments & Methods in Physics Research B, 2015, 365, 680-685.	0.6	41
24	Subshell-selective x-ray studies of radiative recombination of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msup><mml:mrow><mml:mi mathvariant="normal">U</mml:mi></mml:mrow><mml:mrow><mml:mn>92</mml:mn><mml:mo>+</mml:mo></mml:mrow></mml:ms with electrons for very low relative energies. Physical Review A, 2015, 92, .	1.0	7
25	QED corrections to radiative recombination and radiative decay of heavy hydrogenlike ions. Physical Review A, 2015, 92, .	1.0	8
26	Towards FAIR: first measurements of metallic magnetic calorimeters for high-resolution x-ray spectroscopy at GSI. Physica Scripta, 2015, T166, 014054.	1.2	21
27	Electron-capture-to-continuum cusp in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msup><mml:mtext>U</mml:mtext><mml:mrow><mml:mo Physical Review A, 2015, 91, .	1.0	20
28	Momentum-resolved study of the saturation intensity in multiple ionization. Physical Review A, 2015, 91, .	1.0	17
29	Radiative-electron-capture-to-continuum cusp inU88++N2collisions and the high-energy endpoint of electron-nucleus bremsstrahlung. Physical Review A, 2014, 90, .	1.0	25
30	Electron-loss-to-continuum cusp inU88++N2collisions. Physical Review A, 2014, 90, .	1.0	17
31	SPARC collaboration: new strategy for storage ring physics at FAIR. Hyperfine Interactions, 2014, 227, 45-53.	0.2	47
32	Nuclear physics with unstable ions at storage rings. Progress in Particle and Nuclear Physics, 2013, 73, 84-140.	5.6	76
33	High-resolution measurement of the time-modulated orbital electron capture and of the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mml:msup><mml:mrow><mml:mi>Î²</mml:mi></mml:mrow><mml:mrow><mml:mo>+</mml:mo></mml:mrow><mml decay of hydrogen-like 142Pm60+ ions. Physics Letters, Section B: Nuclear, Elementary Particle and	1.5	51
34	Two-photon energy distribution from the decay of the 2<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msup><mml:mrow /><mml:mn>1</mml:mn></mml:msup><mml:msub><mml:mi>S</mml:mi><mml:mn>0</mml:mn></mml:msub></mml:mrow></mml:ma in He-like uranium. Physical Review A, 2013, 87, .	1.0	8
35	High-Precision X-Ray Polarimetry. Physical Review Letters, 2013, 110, 254801.	2.9	77
36	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

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37	Radiative electron capture in relativistic ionâ€“atom collisions and the photoelectric effect in hydrogen-like high-Z systems. Physics Reports, 2007, 439, 1-99.	10.3	233
38	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
39	Radiative recombination into high-Zfew-electron ions: Cross sections and angular distributions. Physical Review A, 2005, 72, .	1.0	70
40	Quantum Electrodynamics in Strong Electric Fields: The Ground-State Lamb Shift in Hydrogenlike Uranium. Physical Review Letters, 2005, 94, 223001.	2.9	185
41	Electron-Electron Interaction in Strong Electromagnetic Fields: The Two-Electron Contribution to the Ground-State Energy in He-like Uranium. Physical Review Letters, 2004, 92, 203004.	2.9	50
42	Polarization of theLymanâ€“Â1Line Following the Radiative Recombination of Bare, High-Z Ions. Hyperfine Interactions, 2003, 146/147, 35-40.	0.2	11
43	Polarization studies on the radiative recombination of highly charged bare ions. Physical Review A, 2003, 68, .	1.0	53
44	Recombination of U 92 + ions with electrons. European Physical Journal D, 2001, 15, 145-154.	0.6	37
45	Recombination of bareBi83+ions with electrons. Physical Review A, 2000, 63, .	1.0	39
46	Strong Alignment Observed for the Time-Reversed Photoionization Process Studied in Relativistic Collisions with Bare Uranium Ions. Physical Review Letters, 1997, 79, 3270-3273.	2.9	62
47	Measurement of the ground-state lambshift of hydrogenlike uranium at the electron cooler of the ESR. Zeitschrift FÃ¼r Physik D-Atoms Molecules and Clusters, 1995, 35, 169-175.	1.0	91
48	Structure of very heavy few-electron ionsâ€”new results from the heavy ion storage ring, ESR. Physica Scripta, 1994, T51, 28-38.	1.2	21