Zhongwen Wu

List of Publications by Year
in descending order

35	272	840776 11	996975 15
papers	citations	h-index	g-index

35	35	35	138
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Resolving the emission behavior of the characteristic line <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mn>1</mml:mn><mml:mi>s</mml:mi><mml:mn>2</mml:mn> width="0.16em" /><mml:mmultiscripts><mml:mi>P</mml:mi><mml:mn>1</mml:mn><mml:none /><mml:mprescripts /><mml:none /><mml:mn>1</mml:mn></mml:mmultiscripts><mml:mo>â†’</mml:mo><mml:mn>1</mml:mn><mml:msup><mml:mi>s</mml:mi> width="0.16em" /><mml:mmultiscripts><mml:m. Physical Review A, 2022, 105, .	2.5	4
2	Effect of the Breit interaction on the angular distribution of Auger electrons following electron-impact excitation of highly charged Be-like ions. Physical Review A, 2022, 105, .	2.5	4
3	Angular and polarization properties of the Lyman- <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>Î±</mml:mi><mml:mn>1</mml:mn></mml:msub></mml: line <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mn>2</mml:mn><mml:msub><mml:mi>p</mml:mi><mml: Physical Review A, 2022, 105, .	2.5	5
4	Apparent change of the 3C/3D line intensity ratio in neonlike ions. Optics Express, 2022, 30, 25326.	3.4	2
5	Energy levels, absorption oscillator strengths, transition probabilities, polarizabilities, and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>g</mml:mi></mml:math> factors of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msup><mml:mrow><mml:mi>Ar</mml:mi></mml:mrow><mml:mrow><mml: Ions. Physical Review A, 2022, 106, .	2.5	2
6	Relativistic R-matrix calculations of the photoionization of W⁶³⁺ ions. Journal of Physics B: Atomic, Molecular and Optical Physics, 2021, 54, 065001.	1.5	2
7	Tune-out and magic wavelengths of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msup><mml:mrow><mml:mi>Ba</mml:mi></mml:mrow><mml:mo>+</mml: ions. Physical Review A, 2021, 103, .	2.5	3
8	Angular Distribution and Polarization of the 3C and 3D Lines Following Electron-impact Excitation of Fe¹⁶⁺ Ions. Astrophysical Journal, 2021, 910, 142.	4.5	9
9	Anisotropy and polarization of x-ray line emissions in the dielectronic recombination of hydrogenlike Fe25+ ions. Physical Review A, 2021, 104, .	2.5	5
10	State-selective nonradiative electron capture in collisions of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mn>95â€“197</mml:mn><mml:mtext>â^’</mml:mtext><mml:mi>MeV/u< width="4pt" /><mml:msup><mml:mrow><mml:mi>Xe</mml:mi></mml:mrow><mml:mrow><mml:mn>54</mml:mn><mml:mo>+</mml:mo></mml:m with Kr and Xe. Physical Review A, 2021, 104, .	2.5	5
11	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>K</mml:mi><mml:msub><mml:mi>Î±</mml:mi><mml:mn angular distribution following electron-impact excitation of heliumlike spin- <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mn>1</mml:mn><mml:mo>/</mml:mo><mml:mn>2</mml:mn></mml:m <mml:math	2.5	5
12	Tune-out wavelengths of the hyperfine components of the ground level of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>Cs</mml:mi><mml:mprescripts /><mml:none /><mml:mn>133</mml:mn></mml:mmultiscripts></mml:math> atoms. Physical Review A, 2020, 102, .	2.5	7
13	Resonance contribution to electron-impact excitation rate coefficients of helium-like S14+ ions. Journal of Physics: Conference Series, 2020, 1412, 132017.	0.4	0
14	Hyperfine-induced effects on angular emission of the magnetic-quadrupole line <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mn>1</mml:mn><mml:mi>s</mml:mi><mml:mn>2</mml:mn> <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mmultiscripts><mml:mi>P</mml:mi><mml:mn>2</mml:mn> /><mml:mprescripts /><mml:none /><mml:mn>. Physical Review A, 2020, 102, .	2.5	11
15	K-shell electron-impact excitation and polarization of x-ray emission of Fe20+ ion. Journal of Physics: Conference Series, 2020, 1412, 132019.	0.4	0
16	Calculations of Dielectronic Recombination and Electron-impact Excitation Rate Coefficients of Highly Charged Sulfur Ions. Astrophysical Journal, Supplement Series, 2020, 247, 22.	7.7	4
17	Effect of the Breit interaction on inner-shell electron-impact excitation and subsequent radiative decay of highly charged berylliumlike ions. Physical Review A, 2020, 101, .	2.5	12
18	Angle-dependent magic wavelengths for the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mn>4</mml:mn><mml:msub><mml:mi>s</mml:mi><mml:mn><mml:mn transitions of <mml:mat. Physical Review A, 2019, 99, .	2.5	6

#	Article	IF	Citations
19	Influence of the Breit interaction on linear polarization of radiation lines following electron-impact excitation of the boron isoelectronic sequence. Physical Review A, 2018, 98, .	2.5	13
20	Angle-resolved x-ray spectroscopic scheme to determine overlapping hyperfine splittings in highly charged heliumlike ions. Physical Review A, 2017, 96, .	2.5	11
21	Linear polarization of the characteristic x-ray lines following inner-shell photoionization of tungsten. Physical Review A, 2016, 93, .	2.5	17
22	Level sequence and splitting identification of closely spaced energy levels by angle-resolved analysis of fluorescence light. Physical Review A, 2016, 93, .	2.5	11
23	Reply to â€œComment on â€˜Hyperfine-induced modifications to the angular distribution of the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>K</mml:mi><mml:msub><mml:mi>Î±</mml:mi> emissionâ€™â€‰â€, Physical Review A, 2015, 91, .	2.5	6
24	Nuclear magnetic dipole moment effect on the angular distribution of the KÎ±lines. Physica Scripta, 2015, T166, 014029.	2.5	6
25	Linear polarization of x-rays emitted in the decay of highly-charged ions via overlapping resonances. Journal of Physics: Conference Series, 2015, 635, 012020.	0.4	1
26	Electron Impact Excitation and Dielectronic Recombination of Highly Charged Tungsten Ions. Atoms, 2015, 3, 474-494.	1.6	23
27	Dielectronic recombination rate coefficients of initially rubidium-like tungsten. European Physical Journal D, 2015, 69, 1.	1.3	13
28	Determination of small level splittings in highly charged ions via angle-resolved measurements of characteristic x rays. Physical Review A, 2014, 90, .	2.5	18
29	Hyperfine-induced modifications to the angular distribution of the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>K</mml:mi><mml:msub><mml:mi>Î±</mml:mi> emission. Physical Review A, 2014, 89, .	2.5	26
30	Polarization of the nf â† 3d (n=4, 5, 6) x-rays from tungsten ions following electron-impact excitation and dielectronic recombination processes. Journal of Quantitative Spectroscopy and Radiative Transfer, 2014, 141, 31-39.	2.3	12
31	Polarization of the strongest nfâ†3d (n = 4, 5, 6) radiative lines emitted from tungsten ions following EIE and DR processes. Journal of Physics: Conference Series, 2014, 488, 062021.	0.4	0
32	Theoretical study of inner-shell electron-impact excitation of highly charged ions: Alignment and angular distribution of electron emission. Journal of Physics: Conference Series, 2014, 488, 062020.	0.4	0
33	Theoretical study on electron impact excitation and recombination of highly charged ions. Journal of Physics: Conference Series, 2012, 388, 012004.	0.4	0
34	The linear polarization of emission lines from EIE and DR of highly charged tungsten ions. Journal of Physics: Conference Series, 2012, 388, 062008.	0.4	0
35	Degrees of polarization of the two strongest<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mn>5</mml:mn><mml:mi>f</mml:mi><mml:mo>â†’</mml:mo><mml:mn>3</mml:mn> following electron-impact excitation and dielectronic recombination processes of Cu-like to Se-like gold ions. Physical Review A, 2012, 86, .	2.5	30