Ran Si

List of Publications by Year
in descending order

45 papers	749 citations	471509 17 h-index	580821 25 g-index
45 all docs	45 docs citations	45 times ranked	324 citing authors

#	Article	IF	Citations
1	CALCULATIONS WITH SPECTROSCOPIC ACCURACY: ENERGIES AND TRANSITION RATES IN THE NITROGEN ISOELECTRONIC SEQUENCE FROM Ar XII TO Zn XXIV. Astrophysical Journal, Supplement Series, 2016, 223, 3.	7.7	44
2	EXTENDED RELATIVISTIC CONFIGURATION INTERACTION AND MANY-BODY PERTURBATION CALCULATIONS OF SPECTROSCOPIC DATA FOR THE NÂâ‰Â6 CONFIGURATIONS IN Ne-LIKE IONS BETWEEN Cr xv AND Kr xxvii. Astrophysical Journal, Supplement Series, 2016, 226, 14.	7.7	42
3	EXTENDED CALCULATIONS WITH SPECTROSCOPIC ACCURACY: ENERGY LEVELS AND TRANSITION PROPERTIES FOR THE FLUORINE-LIKE ISOELECTRONIC SEQUENCE WITH Z = 24â€“30. Astrophysical Journal, Supplement Series, 2016, 227, 16.	7.7	39
4	Extended Calculations of Spectroscopic Data: Energy Levels, Lifetimes, and Transition Rates for O-like Ions from Cr xvii to Zn xxiii. Astrophysical Journal, Supplement Series, 2017, 229, 37.	7.7	37
5	Relativistic many-body calculations on wavelengths and transition probabilities for forbidden transitions within the $3{{{m d}}^{k}}$ ground configurations in Co- through K-like ions of hafnium, tantalum, tungsten and gold. Journal of Physics B: Atomic, Molecular and Optical Physics, 2015, 48, 144020.	1.5	36
6	Calculations with spectroscopic accuracy for energies, transition rates, hyperfine interaction constants, and LandÃ© g -factors in nitrogen-like Kr XXX. Journal of Quantitative Spectroscopy and Radiative Transfer, 2017, 187, 375-402.	2.3	33
7	Energy levels and transition rates for helium-like ions withZâ€‰=â€‰10â€“36. Astronomy and Astrophysics, 2016, 592, A141.	5.1	30
8	Calculations with spectroscopic accuracy for the ground configuration (<mml:math) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 467 Td (xmln forbidden transition in Co-like ions. Physical Review A, 2016, 93, .	2.5	29
9	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si5168.gif" display="inline" overflow="scroll"><mml:mn>3</mml:mn><mml:msup><mml:mrow><mml:mstyle mathvariant="normal"><mml:mi>d</mml:mi></mml:mstyle></mml:mrow><mml:mrow><mml:mi>k</mml:mi></mml:mrow></mml:msup>		

#	Article	IF	Citations
19	Radiative rates and electron-impact excitation for thenâ‰ 6 fine-structure levels in H-like ions with 13 â‰¤Zâ‰¤ 42. Astronomy and Astrophysics, 2015, 583, A82.	5.1	17
20	Observation of electric-dipole transitions in the laser-cooling candidate <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msup><mml:mrow><mml:mi>Th</mml:mi></mml:mrow><mml:mo>â^’</m and its application for cooling antiprotons. Physical Review A, 2021, 103, .	2.6	15
21	Energy levels and oscillator strengths for Mg-like copper. Journal of Quantitative Spectroscopy and Radiative Transfer, 2015, 163, 7-23.	2.3	14
22	Energy levels and transition rates for Mg-like Kr XXV. Journal of Physics B: Atomic, Molecular and Optical Physics, 2015, 48, 175004.	1.5	13
23	Electron impact excitation for He-like ions withZ= 20â€“42. Astronomy and Astrophysics, 2017, 600, A85.	5.1	13
24	Energy levels, lifetimes, and transition rates for the selenium isoelectronic sequence Pd XIIIâ€“Te XIX, Xe XXIâ€“Nd XXVII, W XLI. Atomic Data and Nuclear Data Tables, 2017, 117-118, 1-173.	2.4	13
25	Benchmarking calculations with spectroscopic accuracy of level energies and wavelengths in W LVIIâ€“W LXII tungsten ions. Journal of Quantitative Spectroscopy and Radiative Transfer, 2021, 269, 107650.	2.3	12
26	Calculations of energies, transition rates, and lifetimes for the fluorine-like isoelectronic sequence with <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" id="mml2106" display="inline" overflow="scroll" altimg="si2106.gif"><mml:mi>Z</mml:mi><mml:mo>=</mml:mo><mml:mn>31</mml:mn><mml:mo>â^’</mml:mo><mml:mn>35</mm Atomic Data and Nuclear Data Tables, 2019, 126, 158-294.	2.4	11
27	Extended calculations of energies, transition rates, and lifetimes for F-like Kr XXVIII. Journal of Quantitative Spectroscopy and Radiative Transfer, 2018, 206, 180-188.	2.3	9
28	Benchmarking calculations with spectroscopic accuracy of excitation energies and wavelengths in sulfur-like tungsten. Physical Review A, 2020, 101, .	2.5	9
29	Large-scale Multiconfiguration Diracâ€“Hartreeâ€“Fock Calculations for Astrophysics: n = 4 Levels in P-like Ions from Mn xi to Ni xiv. Astrophysical Journal, Supplement Series, 2020, 247, 70.	7.7	9
30	Benchmarking calculations of wavelengths and transition rates with spectroscopic accuracy for W xlviii through W lvi tungsten ions. Physical Review A, 2022, 105, .	2.5	9
31	Precise wavelength determination of the 4s²4p 2P_{3/2}â€“2P_{1/2} transition in Mo¹¹⁺ and Ru¹³⁺ ions. Journal of Physics B: Atomic, Molecular and Optical Physics, 2021, 54, 235001.	1.5	9
32	Proposal for observation of transitions induced by external magnetic fields mixing in the lower states: with an example from Fe X. Journal of Physics B: Atomic, Molecular and Optical Physics, 2020, 53, 095002.	1.5	8
33	Extended calculations of energy levels, radiative properties, A, B hyperfine interaction constants, and LandÃ© g-factors for Nitrogen-like Se XXVIII. Journal of Quantitative Spectroscopy and Radiative Transfer, 2018, 220, 5-27.	2.3	7
34	Persistent discrepancy between experimental and theoretical lifetimes for<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msup><mml:mrow><mml:mi>Ni</mml:mi></mml:mrow><mml:mo>â^’</m Physical Review A, 2017, 95, .	2.5	6
35	Calculations for energies, transition rates, and lifetimes in Al-like Kr XXIV. Atomic Data and Nuclear Data Tables, 2018, 121-122, 256-292.	2.4	6
36	Extended calculations with spectroscopic accuracy: Energy levels and radiative rates for O-like ions between Ar XI and Cr XVII. Atomic Data and Nuclear Data Tables, 2021, 138, 101377.	2.4	6

#	Article	IF	Citations
37	Ab initio multiconfiguration Dirac-Hartree-Fock calculations of the In and Tl electron affinities and their isotope shifts. Physical Review A, 2021, 104, .	2.5	6
38	Accurate study on the properties of spectral lines for Br-like W³⁹⁺. Journal of Physics B: Atomic, Molecular and Optical Physics, 2018, 51, 015002.	1.5	5
39	Energy levels, lifetimes and radiative rates for transitions in the bromine isoelectronic sequence La XXIII-Dy XXXII, W XL. Atomic Data and Nuclear Data Tables, 2018, 123-124, 114-167.	2.4	5
40	Energy levels and transition rates for Al-like Cu XVII. Atomic Data and Nuclear Data Tables, 2019, 127-128, 140-161.	2.4	5
41	Internal conversion of the low-energy Th229m isomer in the thorium anion. Physical Review C, 2020, 101, .	2.9	5
42	Benchmarking Multiconfiguration Diracâ€“Hartreeâ€“Fock Calculations for Astrophysics: Si-like Ions from Cr xi to Zn xvii. Astrophysical Journal, Supplement Series, 2021, 257, 56.	7.7	5
43	Energy levels, transition rates and electron impact excitation rates for B-like Kr XXXII. Atomic Data and Nuclear Data Tables, 2020, 133-134, 101339.	2.4	4
44	Resonance enhanced electron impact excitation of Cu-like gadolinium. European Physical Journal D, 2017, 71, 1.	1.3	3
45	Large-scale Multiconfiguration Diracâ€“Hartreeâ€“Fock Calculations for Astrophysics: C-like Ions from O iii to Mg vii. Astrophysical Journal, Supplement Series, 2022, 260, 50.	7.7	3