

Ran Si

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Benchmarking calculations of wavelengths and transition rates with spectroscopic accuracy for W lviii through W lvi tungsten ions. <i>Physical Review A</i> , 2022, 105, .	2.5	9
2	Large-scale Multiconfiguration Dirac-Hartree-Fock Calculations for Astrophysics: C-like Ions from O iii to Mg vii. <i>Astrophysical Journal, Supplement Series</i> , 2022, 260, 50.	7.7	3
3	Extended calculations with spectroscopic accuracy: Energy levels and radiative rates for O-like ions between Ar XI and Cr XVII. <i>Atomic Data and Nuclear Data Tables</i> , 2021, 138, 101377.	2.4	6
4	Observation of electric-dipole transitions in the laser-cooling candidate $\text{Th}^{229\text{m}}$ and its application for cooling antiprotons. <i>Physical Review A</i> , 2021, 103, .	2.5	11
5	Benchmarking calculations with spectroscopic accuracy of level energies and wavelengths in W LVII-like tungsten ions. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2021, 269, 107650.	2.3	12
6	Ab initio multiconfiguration Dirac-Hartree-Fock calculations of the In and Tl electron affinities and their isotope shifts. <i>Physical Review A</i> , 2021, 104, .	2.5	6
7	Benchmarking Multiconfiguration Dirac-Hartree-Fock Calculations for Astrophysics: Si-like Ions from Cr xi to Zn xvii. <i>Astrophysical Journal, Supplement Series</i> , 2021, 257, 56.	7.7	5
8	Precise wavelength determination of the $4s^2 4p^2 P_{3/2} \rightarrow 2P_{1/2}$ transition in Mo^{11+} and Ru^{13+} ions. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2021, 54, 235001.	1.5	9
9	Internal conversion of the low-energy $\text{Th}^{229\text{m}}$ isomer in the thorium anion. <i>Physical Review C</i> , 2020, 101, .	2.9	5
10	Energy levels, transition rates and electron impact excitation rates for B-like Kr XXXII. <i>Atomic Data and Nuclear Data Tables</i> , 2020, 133-134, 101339.	2.4	4
11	Proposal for observation of transitions induced by external magnetic fields mixing in the lower states: with an example from Fe X. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2020, 53, 095002.	1.5	8
12	Benchmarking calculations with spectroscopic accuracy of excitation energies and wavelengths in sulfur-like tungsten. <i>Physical Review A</i> , 2020, 101, .	2.5	9
13	Large-scale Multiconfiguration Dirac-Hartree-Fock Calculations for Astrophysics: $n = 4$ Levels in P-like Ions from Mn xi to Ni xiv. <i>Astrophysical Journal, Supplement Series</i> , 2020, 247, 70.	7.7	9
14	A First Spectroscopic Measurement of the Magnetic-field Strength for an Active Region of the Solar Corona. <i>Astrophysical Journal Letters</i> , 2020, 898, L34.	8.3	26
15	Calculations of energies, transition rates, and lifetimes for the fluorine-like isoelectronic sequence with $Z = 31$ to 35 . <i>Atomic Data and Nuclear Data Tables</i> , 2019, 126, 158-204.	2.4	11
16	Energy levels and transition rates for Al-like Cu XVII. <i>Atomic Data and Nuclear Data Tables</i> , 2019, 127-128, 140-161.	2.4	5
17	Benchmarking Atomic Data for Astrophysics: Be-like Ions between B ii and Ne vii. <i>Astrophysical Journal, Supplement Series</i> , 2018, 234, 40.	7.7	24
18	Extended calculations of energy levels, radiative properties, A, B hyperfine interaction constants, and Landé g-factors for nitrogen-like Ge XXVI. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2018, 208, 134-151.	2.3	19

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37	Energy levels and transition rates for helium-like ions with $Z \leq 10$. <i>Astronomy and Astrophysics</i> , 2016, 592, A141.	5.1	30
38	EXTENDED CALCULATIONS WITH SPECTROSCOPIC ACCURACY: ENERGY LEVELS AND TRANSITION PROPERTIES FOR THE FLUORINE-LIKE ISOELECTRONIC SEQUENCE WITH $Z = 24-30$. <i>Astrophysical Journal, Supplement Series</i> , 2016, 227, 16.	7.7	39
39	Calculations with spectroscopic accuracy for the ground configuration ($1s^2$) forbidden transition in Co-like ions. <i>Physical Review A</i> , 2016, 93, .	2.5	29
40	EXTENDED RELATIVISTIC CONFIGURATION INTERACTION AND MANY-BODY PERTURBATION CALCULATIONS OF SPECTROSCOPIC DATA FOR THE n^2 CONFIGURATIONS IN Ne-LIKE IONS BETWEEN Cr xv AND Kr xxvii. <i>Astrophysical Journal, Supplement Series</i> , 2016, 226, 14.	7.7	42
41	CALCULATIONS WITH SPECTROSCOPIC ACCURACY: ENERGIES AND TRANSITION RATES IN THE NITROGEN ISOELECTRONIC SEQUENCE FROM Ar XII TO Zn XXIV. <i>Astrophysical Journal, Supplement Series</i> , 2016, 223, 3.	7.7	44
42	Radiative rates and electron-impact excitation for the $n=6$ fine-structure levels in H-like ions with $13 \leq Z \leq 42$. <i>Astronomy and Astrophysics</i> , 2015, 583, A82.	5.1	17
43	Relativistic many-body calculations on wavelengths and transition probabilities for forbidden transitions within the d^k ground configurations in Co- through K-like ions of hafnium, tantalum, tungsten and gold. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2015, 48, 144020.	1.5	36
44	Energy levels and transition rates for Mg-like Kr XXV. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2015, 48, 175004.	1.5	13
45	Energy levels and oscillator strengths for Mg-like copper. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2015, 163, 7-23.	2.3	14