

Kai Wang

List of Publications by Year in descending order

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94
papers

1,870
citations

257450

24
h-index

302126

39
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94
all docs

94
docs citations

94
times ranked

1087
citing authors

#	ARTICLE	IF	CITATIONS
1	Determination of the atomic structure and radiative transition properties of atoms or ions under the dense and solid density magnetized plasmas. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2022, 277, 107999.	2.3	5
2	Experimental and theoretical investigations of visible spectra of W12+. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2022, 279, 108064.	2.3	5
3	Re-investigation and line identifications for W ¹¹⁺ in the visible range. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2022, 55, 045001.	1.5	4
4	Benchmarking calculations of wavelengths and transition rates with spectroscopic accuracy for W xlviii through W lvi tungsten ions. <i>Physical Review A</i> , 2022, 105, .	2.5	9
5	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
6	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
7	Measurement and identification of visible lines from W10+. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2021, 262, 107533.	2.3	9
8	Extended calculations of energy levels, radiative properties, and lifetimes for P-like Ge XVIII. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2021, 261, 107512.	2.3	3
9	Theoretical determination of level delocalizations, plasma shifts and radiative properties of fusion relevant Ni XXII in finite temperature dense plasmas using a generalized analytical b-potential. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2021, 266, 107570.	2.3	2
10	A Theoretical Investigation of the Magnetic-field-induced Transition in Fe X, of Importance for Measuring Magnetic Field Strengths in the Solar Corona. <i>Astrophysical Journal</i> , 2021, 913, 135.	4.5	14
11	Benchmarking calculations with spectroscopic accuracy of level energies and wavelengths in W LVII-W LXII tungsten ions. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2021, 269, 107650.	2.3	12
12	Energy and transition data computations for P-like ions: As, Kr, Sr, Zr, Mo, and W. <i>Atomic Data and Nuclear Data Tables</i> , 2021, 141, 101428.	2.4	0
13	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
14	Atomic Structure Calculations of Landé g Factors of Astrophysical Interest with Direct Applications for Solar Coronal Magnetometry. <i>Astrophysical Journal</i> , 2021, 923, 186.	4.5	6
15	Ionization potentials of the superheavy element livermorium ($Z = 116$). <i>Journal of Chemical Physics</i> , 2020, 152, 204303.	3.0	5
16	Spectral line list of potential cosmochronological interest deduced from new calculations of radiative transition rates in singly ionized thorium (Th ⁱⁱ). <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 496, 4507-4516.	4.4	4
17	Large-scale Multiconfiguration Dirac-Hartree-Fock Calculations for Astrophysics: Cl-like Ions from Cr viii to Zn xiv. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 1.	7.7	29
18	Single-photon photoionization of highly charged ions under warm- and hot-dense plasmas using a unified description of screening. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2020, 253, 107170.	2.3	12

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19	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
20	Electron-impact excitation of ions within a quantum plasma. Radiation Physics and Chemistry, 2020, 172, 108756.	2.8	0
21	Photoionization of H-like C $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.svg"} \rangle \langle \text{mml:msup} \rangle \langle \text{mml:mrow} \rangle / \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 5 \langle \text{mml:mn} \rangle \langle \text{mml:mo} \rangle + \langle \text{mml:mo} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msup} \rangle \langle \text{mml:math} \rangle$ ion in the presence of a strongly coupled plasma environment. Journal of Quantitative Spectroscopy and Radiative Transfer, 2020, 245, 106847.	2.3	7
22	Benchmarking calculations with spectroscopic accuracy of excitation energies and wavelengths in sulfur-like tungsten. Physical Review A, 2020, 101, .	2.5	9
23	Large-scale Multiconfiguration Dirac-Hartree-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
24	Multiconfiguration Dirac-Hartree-Fock calculations of Landé g -factors for ions of astrophysical interest: B II, C I ^{IV} , Al I ^{II} , Si I ^{IV} , P II, S II, Cl III, Ar IV, Ca I, Ti II, Zr III, and Sn II. Astronomy and Astrophysics, 2020, 639, A25.	5.1	6
25	Calculations of energies, transition rates, and lifetimes for the fluorine-like isoelectronic sequence with $Z > 31$. Atomic Data and Nuclear Data Tables, 2019, 126, 158-204.	2.4	11
26	Study of energies and radiative properties of He-like ions within a dense plasma. Physics of Plasmas, 2019, 26, 082101.	1.9	16
27	Influence of multipole effects on the cross section and alignment following inner-shell ionization of atoms by a linearly polarized photon. Journal of Electron Spectroscopy and Related Phenomena, 2019, 235, 60-67.	1.7	1
28	Reverberation Mapping of the Narrow-line Seyfert 1 Galaxy I Zwicky 1: Black Hole Mass. Astrophysical Journal, 2019, 876, 102.	4.5	23
29	Study of energies and oscillator strengths of Fe XXI including plasma shielding effects. Journal of Quantitative Spectroscopy and Radiative Transfer, 2019, 236, 106584.	2.3	16
30	Extended calculations of energy levels, radiative properties, and lifetimes for oxygen-like Mo XXXV. Journal of Quantitative Spectroscopy and Radiative Transfer, 2019, 236, 106586.	2.3	11
31	Extended calculations of energy levels, radiative properties, and lifetimes for nitrogen-like Zr XXXIV. Journal of Quantitative Spectroscopy and Radiative Transfer, 2019, 237, 106640.	2.3	6
32	A Possible ~ 420 yr Periodicity in Long-term Optical Photometric and Spectral Variations of the Nearby Radio-quiet Active Galactic Nucleus Ark 120. Astrophysical Journal, Supplement Series, 2019, 241, 33.	7.7	34
33	Energies and transition parameters of fusion interest in Cr-like ions between Hf XLIX and Au LVI. Atomic Data and Nuclear Data Tables, 2019, 129-130, 101278.	2.4	1
34	Study of relativistic excitation energies and transition data for EUV and SXR spectral lines in Ge XXIX and Kr XXXIII of fusion interest. Journal of Quantitative Spectroscopy and Radiative Transfer, 2019, 234, 90-97.	2.3	20
35	Ab initio dielectronic recombination rate coefficients for highly-charged Ar-like ions. Journal of Quantitative Spectroscopy and Radiative Transfer, 2019, 232, 75-86.	2.3	1
36	Theoretical determination of energies, wavelengths, and transition probabilities for EUV and SXR spectral lines in Rb XXXIV, Sr XXXV, Zr XXXVII, and Nb XXXVIII. Journal of Quantitative Spectroscopy and Radiative Transfer, 2019, 225, 76-83.	2.3	31

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37	Energy levels and transition rates for Al-like Cu XVII. Atomic Data and Nuclear Data Tables, 2019, 127-128, 140-161.	2.4	5
38	Benchmarking Atomic Data for Astrophysics: Be-like Ions between B ii and Ne vii. Astrophysical Journal, Supplement Series, 2018, 234, 40.	7.7	24
39	High-accuracy multi-configuration Dirac-Hartree-Fock calculations of the energy levels and transition properties of Ga-like to Br-like gadolinium ions. Atomic Data and Nuclear Data Tables, 2018, 123-124, 86-113.	2.4	0
40	Extended calculations of energy levels, radiative properties, A, B hyperfine interaction constants, and Landé g-factors for nitrogen-like Ge XXVI. Journal of Quantitative Spectroscopy and Radiative Transfer, 2018, 208, 134-151.	2.3	19
41	High accuracy theoretical calculation of wavelengths and transition probabilities in Se- through Ga-like ions of tungsten. Journal of Quantitative Spectroscopy and Radiative Transfer, 2018, 210, 204-216.	2.3	6
42	Supermassive Black Holes with High Accretion Rates in Active Galactic Nuclei. IX. 10 New Observations of Reverberation Mapping and Shortened H β Lags. Astrophysical Journal, 2018, 856, 6.	4.5	139
43	Energy Levels, Lifetimes, and Transition Rates for P-like Ions from Cr x to Zn xvi from Large-scale Relativistic Multiconfiguration Calculations. Astrophysical Journal, Supplement Series, 2018, 235, 27.	7.7	28
44	Influence of dense plasma on the energy levels and transition properties in highly charged ions. Physics of Plasmas, 2018, 25, .	1.9	39
45	Multi-configuration Dirac-Hartree-Fock calculations of forbidden transitions within the $\frac{d}{dk}$		

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55	<p>ical determination of energies, wavelengths, and transition rates for the Y Y^{∞}</p> <p>Y^{∞}</p> <p>Breit and QED effects on the Y^{∞}</p>		17
56	<p>Proposal of highly accurate tests of Breit and QED effects in the ground state Y^{∞}</p> <p>of the F-like isoelectronic sequence. Physical Review A, 2018, 98, .</p>	2.5	25
57	<p>Relativistic effects on the energy levels and radiative properties of He-like ions immersed in Debye plasmas. Physics of Plasmas, 2018, 25, 072120.</p>	1.9	32
58	<p>Proposal of highly accurate tests of Breit and QED effects in the ground state Y^{∞}</p> <p>of the F-like isoelectronic sequence. Physical Review A, 2018, 98, .</p>	2.5	25
59	<p>Energies and transition rates in Ge-like ions between In XVIII and Ce XXVII. Atomic Data and Nuclear Data Tables, 2017, 114, 61-261.</p>	2.4	13
60	<p>Energy levels, oscillator strengths, line strengths, and transition probabilities in Si-like ions of La XLIII, Er LIV, Tm LV, and Yb LVI. Atomic Data and Nuclear Data Tables, 2017, 113, 258-292.</p>	2.4	24
61	<p>Energies, wavelengths, lifetimes, E1, M1, E2, and M2 transitions rates for the sulfur isoelectronic sequence Fe XI, Nb XXVI In XXXIV. Canadian Journal of Physics, 2017, 95, 393-401.</p>	1.1	2
62	<p>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.</p>	7.7	37
63	<p>Resonance-enhanced electron-impact excitation of Cu-like gold. Journal of Quantitative Spectroscopy and Radiative Transfer, 2017, 198, 48-58.</p>	2.3	2
64	<p>Resonance enhanced electron impact excitation of Cu-like gadolinium. European Physical Journal D, 2017, 71, 1.</p>	1.3	3
65	<p>Influence of residual ion polarization on the coplanar symmetric (e, 2e) cross sections for calcium and argon. European Physical Journal D, 2017, 71, 1.</p>	1.3	2
66	<p>Extended calculations of energy levels, radiative properties, A, B hyperfine interaction constants, and Landé g-factors for oxygen-like Kr XXIX. Journal of Quantitative Spectroscopy and Radiative Transfer, 2017, 194, 108-112.</p>	2.3	23
67	<p>Extensive and accurate energy levels and transition rates for Al-like Zn XVIII. Journal of Quantitative Spectroscopy and Radiative Transfer, 2017, 189, 249-257.</p>	2.3	22
68	<p>Electron impact excitation for He-like ions with $Z = 20$. Astronomy and Astrophysics, 2017, 600, A85.</p>	5.1	13
69	<p>Influence of semiclassical plasma on the energy levels and radiative transitions in highly charged ions. European Physical Journal D, 2017, 71, 1.</p> <p>Comment on $\text{Theoretical Confirmation of the Low Experimental}$</p>	1.3	3
70	<p>$\text{Theoretical Confirmation of the Low Experimental}$</p> <p>Value Ratio in Fe xvii. Physical Review Letters, 2017, 119, 189301.</p>	7.8	21
71	<p>Energy levels, lifetimes, and transition rates for the selenium isoelectronic sequence Pd XIII Te XIX, Xe XXI Nd XXVII, W XLI. Atomic Data and Nuclear Data Tables, 2017, 117-118, 1-173.</p>	2.4	13
72	<p>Calculations with spectroscopic accuracy for energies, transition rates, hyperfine interaction constants, and Landé g-factors in nitrogen-like Kr XXX. Journal of Quantitative Spectroscopy and Radiative Transfer, 2017, 187, 375-402.</p>	2.3	33

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73	Calculation of levels, transition rates, and lifetimes for the arsenic isoelectronic sequence Sn XVIII-Ba XXIV, W XLII. Atomic Data and Nuclear Data Tables, 2017, 117-118, 174-319.	2.4	6
74	Multiconfiguration Dirac-Hartree-Fock Calculations with Spectroscopic Accuracy: Applications to Astrophysics. Atoms, 2017, 5, 16.	1.6	40
75	Energy levels and transition rates for helium-like ions with $Z = 10$ –36. Astronomy and Astrophysics, 2016, 592, A141.	5.1	30
76	EXTENDED CALCULATIONS WITH SPECTROSCOPIC ACCURACY: ENERGY LEVELS AND TRANSITION PROPERTIES FOR THE FLUORINE-LIKE ISOELECTRONIC SEQUENCE WITH $Z = 24$ –30. Astrophysical Journal, Supplement Series, 2016, 227, 16.	7.7	39
77	SPECTROSCOPIC INDICATION OF A CENTI-PARSEC SUPERMASSIVE BLACK HOLE BINARY IN THE GALACTIC CENTER OF NGC 5548. Astrophysical Journal, 2016, 822, 4.	4.5	91
78	Calculations with spectroscopic accuracy for the ground configuration ($1s^2$) forbidden transition in Co-like ions. Physical Review A, 2016, 93, .	2.5	29
79	SUPERMASSIVE BLACK HOLES WITH HIGH ACCRETION RATES IN ACTIVE GALACTIC NUCLEI. V. A NEW SIZE–LUMINOSITY SCALING RELATION FOR THE BROAD-LINE REGION. Astrophysical Journal, 2016, 825, 126.	4.5	128
80	EXTENDED RELATIVISTIC CONFIGURATION INTERACTION AND MANY-BODY PERTURBATION CALCULATIONS OF SPECTROSCOPIC DATA FOR THE $n = 6$ CONFIGURATIONS IN Ne-LIKE IONS BETWEEN Cr xv AND Kr xxvii. Astrophysical Journal, Supplement Series, 2016, 226, 14.	7.7	42
81	Energy levels and radiative data for Kr-like W_{38+} from MCDHF and RMBPT calculations. Journal of Physics B: Atomic, Molecular and Optical Physics, 2016, 49, 135003.	1.5	13
82	Correlation effects on the fine-structure splitting within the $3d^9$ ground configuration in highly-charged Co-like ions. Chinese Physics B, 2016, 25, 013101.	1.4	4
83	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
84	Radiative rates and electron-impact excitation for the $n = 6$ fine-structure levels in H-like ions with $13 \leq Z \leq 42$. Astronomy and Astrophysics, 2015, 583, A82.	5.1	17
85	Relativistic many-body calculations on wavelengths and transition probabilities for forbidden transitions within the $3d^k$ 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
86	SYSTEMATIC CALCULATIONS OF ENERGY LEVELS AND TRANSITION RATES OF Be-LIKE IONS WITH $Z = 10$ –30 USING A COMBINED CONFIGURATION INTERACTION AND MANY-BODY PERTURBATION THEORY APPROACH. Astrophysical Journal, Supplement Series, 2015, 218, 16.	7.7	70
87	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
88	Energy levels and oscillator strengths for Mg-like copper. Journal of Quantitative Spectroscopy and Radiative Transfer, 2015, 163, 7-23.	2.3	14
89	SYSTEMATIC CALCULATIONS OF ENERGY LEVELS AND TRANSITION RATES OF C-LIKE IONS WITH $Z = 13$ -36. Astrophysical Journal, Supplement Series, 2014, 215, 26.	7.7	71
90	Electron impact excitation rate coefficients for P-like Ni XIV. Atomic Data and Nuclear Data Tables, 2012, 98, 779-797.	2.4	9

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91	Radiative rates and electron impact excitation rate coefficients for Ne-like selenium, Se XXV. Atomic Data and Nuclear Data Tables, 2011, 97, 426-480.	2.4	9
92	Radiative rates and electron impact excitation rate coefficients for H-like Fe XXVI. Journal of Quantitative Spectroscopy and Radiative Transfer, 2010, 111, 843-856.	2.3	21
93	Electron impact excitation for P-like Ni XIV. Journal of Physics B: Atomic, Molecular and Optical Physics, 2010, 43, 175202.	1.5	5
94	Re-investigation and line identifications for W11+ in the visible range. Journal of Physics B: Atomic, Molecular and Optical Physics, 0, , .	1.5	0