

Kai Wang

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/956145/publications.pdf>

Version: 2024-02-01

94
papers

1,870
citations

257450

24
h-index

302126

39
g-index

94
all docs

94
docs citations

94
times ranked

1087
citing authors

#	ARTICLE	IF	CITATIONS
1	Supermassive Black Holes with High Accretion Rates in Active Galactic Nuclei. IX. 10 New Observations of Reverberation Mapping and Shortened H β Lags. <i>Astrophysical Journal</i> , 2018, 856, 6.	4.5	139
2	SUPERMASSIVE BLACK HOLES WITH HIGH ACCRETION RATES IN ACTIVE GALACTIC NUCLEI. V. A NEW SIZE-LUMINOSITY SCALING RELATION FOR THE BROAD-LINE REGION. <i>Astrophysical Journal</i> , 2016, 825, 126.	4.5	128
3	SPECTROSCOPIC INDICATION OF A CENTI-PARSEC SUPERMASSIVE BLACK HOLE BINARY IN THE GALACTIC CENTER OF NGC 5548. <i>Astrophysical Journal</i> , 2016, 822, 4.	4.5	91
4	SYSTEMATIC CALCULATIONS OF ENERGY LEVELS AND TRANSITION RATES OF C-LIKE IONS WITH $Z = 13-36$. <i>Astrophysical Journal</i> , Supplement Series, 2014, 215, 26.	7.7	71
5	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. <i>Astrophysical Journal</i> , Supplement Series, 2015, 218, 16.	7.7	70
6	Monitoring AGNs with H β Asymmetry. I. First Results: Velocity-resolved Reverberation Mapping. <i>Astrophysical Journal</i> , 2018, 869, 142.	4.5	59
7	Theoretical energies, transition rates, lifetimes, hyperfine interaction constants and Landé g -factors for the Se XXVII spectrum of fusion interest. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2018, 206, 213-222.	2.3	52
8	CALCULATIONS WITH SPECTROSCOPIC ACCURACY: ENERGIES AND TRANSITION RATES IN THE NITROGEN ISOELECTRONIC SEQUENCE FROM Ar XII TO Zn XXIV. <i>Astrophysical Journal</i> , Supplement Series, 2016, 223, 3.	7.7	44
9	EXTENDED RELATIVISTIC CONFIGURATION INTERACTION AND MANY-BODY PERTURBATION CALCULATIONS OF SPECTROSCOPIC DATA FOR THE N α CONFIGURATIONS IN Ne-LIKE IONS BETWEEN Cr xv AND Kr xxvii. <i>Astrophysical Journal</i> , Supplement Series, 2016, 226, 14.	7.7	42
10	Multiconfiguration Dirac-Hartree-Fock Calculations with Spectroscopic Accuracy: Applications to Astrophysics. <i>Atoms</i> , 2017, 5, 16.	1.6	40
11	EXTENDED CALCULATIONS WITH SPECTROSCOPIC ACCURACY: ENERGY LEVELS AND TRANSITION PROPERTIES FOR THE FLUORINE-LIKE ISOELECTRONIC SEQUENCE WITH $Z = 24-30$. <i>Astrophysical Journal</i> , Supplement Series, 2016, 227, 16.	7.7	39
12	Influence of dense plasma on the energy levels and transition properties in highly charged ions. <i>Physics of Plasmas</i> , 2018, 25, .	1.9	39
13	Extended Calculations of Spectroscopic Data: Energy Levels, Lifetimes, and Transition Rates for O-like Ions from Cr xvii to Zn xxiii. <i>Astrophysical Journal</i> , Supplement Series, 2017, 229, 37.	7.7	37
14	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. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2015, 48, 144020.	1.5	36
15	A Possible ~ 420 yr Periodicity in Long-term Optical Photometric and Spectral Variations of the Nearby Radio-quiet Active Galactic Nucleus Ark 120. <i>Astrophysical Journal</i> , Supplement Series, 2019, 241, 33.	7.7	34
16	Calculations with spectroscopic accuracy for energies, transition rates, hyperfine interaction constants, and Landé g -factors in nitrogen-like Kr XXX. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2017, 187, 375-402.	2.3	33
17	Relativistic effects on the energy levels and radiative properties of He-like ions immersed in Debye plasmas. <i>Physics of Plasmas</i> , 2018, 25, 072120.	1.9	32
18	Theoretical determination of energies, wavelengths, and transition probabilities for EUV and SXR spectral lines in Rb XXXIV, Sr XXXV, Zr XXXVII, and Nb XXXVIII. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2019, 225, 76-83.	2.3	31

#	ARTICLE	IF	CITATIONS
19	Energy levels and transition rates for helium-like ions with $Z \leq 10$. <i>Astronomy and Astrophysics</i> , 2016, 592, A141.	5.1	30
20	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
21	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
22	Energy Levels, Lifetimes, and Transition Rates for P-like Ions from Cr X to Zn XVI from Large-scale Relativistic Multiconfiguration Calculations. <i>Astrophysical Journal, Supplement Series</i> , 2018, 235, 27.	7.7	28
23	Multi-configuration Dirac-Hartree-Fock calculations of forbidden transitions within the $1s^2$ configuration of Fe-like ions. <i>Physical Review A</i> , 2017, 95, 043407.		

#	ARTICLE	IF	CITATIONS
37	Proposal of highly accurate tests of Breit and QED effects in the ground state $2s^2$ of the F-like isoelectronic sequence. <i>Physical Review A</i> , 2018, 98, .		
38	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
39	Study of energies and radiative properties of He-like ions within a dense plasma. <i>Physics of Plasmas</i> , 2019, 26, 082101.	1.9	16
40	Study of energies and oscillator strengths of Fe XXI including plasma shielding effects. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2019, 236, 106584.	2.3	16
41	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
42	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
43	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
44	Energy levels and radiative data for Kr-like W^{38+} from MCDHF and RMBPT calculations. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2016, 49, 135003.	1.5	13
45	Energies and transition rates in Ge-like ions between In XVIII and Ce XXVII. <i>Atomic Data and Nuclear Data Tables</i> , 2017, 114, 61-261.	2.4	13
46	Electron impact excitation for He-like ions with $Z = 20 \leq 42$. <i>Astronomy and Astrophysics</i> , 2017, 600, A85.	5.1	13
47	Energy levels, lifetimes, and transition rates for the selenium isoelectronic sequence Pd XIII–Te XIX, Xe XXI–Nd XXVII, W XLI. <i>Atomic Data and Nuclear Data Tables</i> , 2017, 117-118, 1-173.	2.4	13
48	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
49	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
50	Large-scale Multiconfiguration Dirac–Hartree–Fock and Relativistic Configuration Interaction Calculations of Transition Data for B-like S xii. <i>Astrophysical Journal</i> , 2018, 864, 127.	4.5	11
51	Calculations of energies, transition rates, and lifetimes for the fluorine-like isoelectronic sequence with $Z = 31 \leq 35$. <i>Atomic Data and Nuclear Data Tables</i> , 2019, 126, 158-294.	2.4	11
52	Extended calculations of energy levels, radiative properties, and lifetimes for oxygen-like Mo XXXV. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2019, 236, 106586.	2.3	11
53	Radiative rates and electron impact excitation rate coefficients for Ne-like selenium, Se XXV. <i>Atomic Data and Nuclear Data Tables</i> , 2011, 97, 426-480.	2.4	9

#	ARTICLE	IF	CITATIONS
55	Electron impact excitation rate coefficients for P-like Ni XIV. Atomic Data and Nuclear Data Tables, 2012, 98, 779-797.	2.4	9
56	Benchmarking calculations with spectroscopic accuracy of excitation energies and wavelengths in sulfur-like tungsten. Physical Review A, 2020, 101, .	2.5	9
57	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
58	Measurement and identification of visible lines from W10+. Journal of Quantitative Spectroscopy and Radiative Transfer, 2021, 262, 107533.	2.3	9
59	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
60	Photoionization of H-like C ion in the presence of a strongly coupled plasma environment. Journal of Quantitative Spectroscopy and Radiative Transfer, 2020, 245, 106847.	2.3	7
61	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
62	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
63	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
64	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
65	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
66	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
67	Atomic Structure Calculations of Landé g Factors of Astrophysical Interest with Direct Applications for Solar Coronal Magnetometry. Astrophysical Journal, 2021, 923, 186.	4.5	6
68	Electron impact excitation for P-like Ni XIV. Journal of Physics B: Atomic, Molecular and Optical Physics, 2010, 43, 175202.	1.5	5
69	Accurate study on the properties of spectral lines for Br-like W ³⁹⁺ . Journal of Physics B: Atomic, Molecular and Optical Physics, 2018, 51, 015002.	1.5	5
70	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
71	Energy levels and transition rates for Al-like Cu XVII. Atomic Data and Nuclear Data Tables, 2019, 127-128, 140-161.	2.4	5
72	Ionization potentials of the superheavy element livermorium ($Z = 116$). Journal of Chemical Physics, 2020, 152, 204303.	3.0	5

#	ARTICLE	IF	CITATIONS
73	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
74	Experimental and theoretical investigations of visible spectra of W12+. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2022, 279, 108064.	2.3	5
75	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
76	Correlation effects on the fine-structure splitting within the 3d ⁹ ground configuration in highly-charged Co-like ions. <i>Chinese Physics B</i> , 2016, 25, 013101.	1.4	4
77	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
78	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
79	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
80	Resonance enhanced electron impact excitation of Cu-like gadolinium. <i>European Physical Journal D</i> , 2017, 71, 1.	1.3	3
81	Influence of semiclassical plasma on the energy levels and radiative transitions in highly charged ions. <i>European Physical Journal D</i> , 2017, 71, 1.	1.3	3
82	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
83	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
84	Energies, wavelengths, lifetimes, E1, M1, E2, and M2 transitions rates for the sulfur isoelectronic sequence Fe XI, Nb XXVI-In XXXIV. <i>Canadian Journal of Physics</i> , 2017, 95, 393-401.	1.1	2
85	Resonance-enhanced electron-impact excitation of Cu-like gold. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2017, 198, 48-58.	2.3	2
86	Influence of residual ion polarization on the coplanar symmetric (e, 2e) cross sections for calcium and argon. <i>European Physical Journal D</i> , 2017, 71, 1.	1.3	2
87	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
88	Influence of multipole effects on the cross section and alignment following inner-shell ionization of atoms by a linearly polarized photon. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2019, 235, 60-67.	1.7	1
89	Energies and transition parameters of fusion interest in Cr-like ions between Hf XLIX and Au LVI. <i>Atomic Data and Nuclear Data Tables</i> , 2019, 129-130, 101278.	2.4	1
90	Ab initio dielectronic recombination rate coefficients for highly-charged Ar-like ions. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2019, 232, 75-86.	2.3	1

#	ARTICLE	IF	CITATIONS
91	High-accuracy multi-configuration Diracâ€“Hartreeâ€“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
92	Electron-impact excitation of ions within a quantum plasma. Radiation Physics and Chemistry, 2020, 172, 108756.	2.8	0
93	Energy and transition data computations for P-like ions: As, Kr, Sr, Zr, Mo, and W. Atomic Data and Nuclear Data Tables, 2021, 141, 101428.	2.4	0
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