Jacek Migdalek

List of Publications by Year
in descending order

57	1,076	394421	434195
papers	citations	19 h-index	31 g-index

57	57	57	284
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Influence of atomic core polarisation on oscillator strengths for2S1/2-2P1/2,3/2and2P1/2,3/2-2D3/2,5/2transitions in Cu I, Ag I and Au I spectra. Journal of Physics B: Atomic and Molecular Physics, 1978, 11, L497-L501.	1.6	109
2	Relativistic oscillator strengths and excitation energies for the ns21S0-nsnp3P1,1P1transitions. II. Cadmium isoelectronic sequence. Journal of Physics B: Atomic and Molecular Physics, 1986, 19, 1-16.	1.6	95
3	Influence of core polarisation on oscillator strengths along the copper isoelectronic sequence. Journal of Physics B: Atomic and Molecular Physics, 1979, 12, 1113-1123.	1.6	56
4	Relativistic oscillator strengths and excitation energies for the ns21S0-nsnp3P1,1P1transitions. I. The mercury isoelectronic sequence. Journal of Physics B: Atomic and Molecular Physics, 1985, 18, 1533-1547.	1.6	53
5	The spin-allowed and spin-forbidden - , transitions in the magnesium isoelectronic sequence. Journal of Physics B: Atomic, Molecular and Optical Physics, 1996, 29, 2985-2996.	1.5	43
6	Relativistic oscillator strengths for some transitions in Cu(I), Ag(I) and Au(I). Journal of Quantitative Spectroscopy and Radiative Transfer, 1978, 20, 81-87.	2.3	41
7	Relativistic CI calculations for the ns21S0-nsnp3P1,1P1transitions in the cadmium and mercury isoelectronic sequences. Journal of Physics B: Atomic, Molecular and Optical Physics, 1988, 21, 2221-2236.	1.5	37
8	Relativistic Hartree-Fock oscillator strengths for the lowest sâ†'p transitions in the first few members of the Rb(I) and Cs(I) isoelectronic sequences, with allowance for core polarization. Journal of Quantitative Spectroscopy and Radiative Transfer, 1979, 22, 127-134.	2.3	31
9	Core polarization and oscillator strength ratio anomaly in potassium, rubidium and caesium. Journal of Physics B: Atomic, Molecular and Optical Physics, 1998, 31, 1947-1960.	1.5	31
10	The relativisticab initiomodel potential versus Dirac-Fock oscillator strengths for silver and gold isoelectronic sequences. Journal of Physics B: Atomic, Molecular and Optical Physics, 2000, 33, 1735-1743.	1.5	30
11	Relativistic oscillator strengths for the 6s21S0-6s6p3P1,1P1transitions in neutral mercury. A new approach to the correlation problem. Journal of Physics B: Atomic and Molecular Physics, 1984, 17, L459-L464.	1.6	29
12	Relativistic configuration-interaction oscillator strength calculations withab initiomodel potential wavefunctions. Journal of Physics B: Atomic, Molecular and Optical Physics, 2003, 36, 3629-3636.	1.5	28
13	Multiconfiguration Dirac-Fock calculations of two electric quadrupole transitions in neutral barium. Physical Review A, 1990, 42, 6897-6899.	2.5	26
14	DIRACâ€"FOCK OSCILLATOR STRENGTHS FOR E1 TRANSITIONS IN THE SODIUM ISOELECTRONIC SEQUENCE (Na) Tj ETQq0 0 0 rgBT /O	2.4	25
15	Relativistic Hartree-Fock oscillator strengths for lowest np2P1/2,3/2to (n+1)s2S1/2and np2P1/2,3/2to nd2D3/2,5/2transitions in Ga I, In I and Tl I with allowance for core polarisation. Journal of Physics B: Atomic and Molecular Physics, 1979, 12, 2595-2604.	1.6	23
16	Relativistic oscillator strengths for the Cs isoelectronic sequence and collapse of â¨•and d orbitals. Journal of Quantitative Spectroscopy and Radiative Transfer, 1987, 37, 581-589.	2.3	22
17	Relativistic transition probabilities and lifetimes of low-lying levels in ytterbium. Journal of Physics B: Atomic, Molecular and Optical Physics, 1991, 24, L99-L102.	1.5	22
18	Transition probabilities and lifetimes in neutral barium. Journal of Physics B: Atomic, Molecular and Optical Physics, 2001, 34, 4775-4784.	1.5	21

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19	Comparison of â€˜â€˜optimal-levelâ€™â€™ and â€˜â€˜average-levelâ€™â€™ multiconfigurational Dirac-Fock as well as of relativistic configuration-interaction calculations for thens2S01â€“nsnpP13,1P1transitions. Physical Review A, 1990, 41, 2869-2872.	2.5	19
20	Influence of core polarisation on relativistic oscillator strengths for lowest s-p transitions in Yb II-Hf IV spectra. Journal of Physics B: Atomic and Molecular Physics, 1980, 13, L169-L174.	1.6	18
21	Local approximations for the exchange interaction between valence and core electrons. Physical Review A, 1980, 22, 22-27.	2.5	18
22	Core polarization, relaxation, and relativistic effects in the first ionization potentials for some systems in Cu, Ag, and Au isoelectronic sequences. Canadian Journal of Physics, 1982, 60, 1317-1322.	1.1	18
23	Correlation effects in a relativistic calculation of the 6s21S0â€“6s6p1P1transition in ytterbium. Physical Review A, 1986, 33, 1417-1420.	2.5	18
24	Core-polarization-corrected multiconfiguration Diracâ€“Fock oscillator strengths and excitation energies for the 5s²â€‚¹S₀ â€“ 5s5pâ€‚³P₁, ¹P₁ transitions in Sr I and Y II spectra. Canadian Journal of Physics, 1987, 65, 1612-1619.	1.1	17
25	Relativistic many-body calculations of ionisation energies and fine-structure intervals in Ag and Au atoms. Journal of Physics B: Atomic, Molecular and Optical Physics, 1990, 23, L5-L8.	1.5	17
26	Correlation effects in a relativistic calculation of the 6s2S01â€“6s6pP13,1P1transitions in barium. Physical Review A, 1987, 35, 3227-3232.	2.5	15
27	Oscillator strengths for some systems with the ns2np ground-state configuration. I. Aluminium isoelectronic sequence. Journal of Physics B: Atomic, Molecular and Optical Physics, 1993, 26, 1391-1402.	1.5	15
28	Relativistic multiconfiguration Dirac-Fock study of 3s23p-3s23d transition in aluminium isoelectronic sequence. Journal of Physics B: Atomic, Molecular and Optical Physics, 1994, 27, 3315-3324.	1.5	15
29	Comparison of relativistic CI and MCRHF calculations of oscillator strengths and excitation energies for the ns21S0-nsnp3P1,1P1transitions in neutral cadmium and mercury. Journal of Physics B: Atomic and Molecular Physics, 1987, 20, L1-L6.	1.6	14
30	Relativistic MCDF oscillator strengths for the 4s2 1S0â^'4s4p 3P1, 1P1 transitions in zinc isoelectronic sequence. Journal of Quantitative Spectroscopy and Radiative Transfer, 1989, 42, 585-592.	2.3	14
31	Valence-core electron exchange interaction and the collapse of4fand5dorbitals in the cesium isoelectronic sequence. Physical Review A, 1984, 30, 1603-1609.	2.5	13
32	Nonadjustable local model potentials for the exchange interaction between valence and core electrons. Physical Review A, 1981, 24, 649-655.	2.5	12
33	Relativistic effects, core polarisation and relaxation in ionisation potentials along Rb and Cs isoelectronic sequences. Journal of Physics B: Atomic and Molecular Physics, 1984, 17, 1943-1951.	1.6	12
34	Oscillator strengths for some systems with the ns2np ground-state configuration. III. Indium isoelectronic sequence. Journal of Physics B: Atomic, Molecular and Optical Physics, 1994, 27, 5587-5601.	1.5	12
35	One-electron spectrum of Yb+: Relativistic energies, transition probabilities and dipole polarizability. Journal of Quantitative Spectroscopy and Radiative Transfer, 1982, 28, 61-69.	2.3	11
36	The spin-allowed and spin-forbidden 5s 2 1 S 0-5s5p 1 P 1,3 P 1 transitions in strontium isoelectronic sequence. Zeitschrift FÃ¼r Physik D-Atoms Molecules and Clusters, 1993, 27, 9-15.	1.0	11

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37	Influence of relativistic valence-core correlation on p-state fine structure in some univalent systems. Canadian Journal of Physics, 1981, 59, 769-774.	1.1	9
38	â€˜Diracâ€“Fock + core-polarizationâ€™ calculations of E1 transitions in the francium isoelectronic sequence. Journal of Physics B: Atomic, Molecular and Optical Physics, 2007, 40, 4143-4154.	1.5	9
39	A multiconfiguration Dirac-Fock study of the 6s2 1S0â^'6s6p 3P1, 1P1 transitions in the Yb isoelectronic sequence. Journal of Quantitative Spectroscopy and Radiative Transfer, 1987, 37, 521-526.	2.3	8
40	Multiconfiguration Dirac-Fock study of the 5d6p3F4Â°lifetime in singly ionized lanthanum. Physical Review A, 1991, 43, 4625-4628.	2.5	8
41	Model Potential Approach to Core Polarisation in SCF Calculations. Physica Scripta, 2002, T100, 47.	2.5	8
42	Oscillator strengths for some systems with the ns2np ground-state configuration. II. Gallium isoelectronic sequence. Journal of Physics B: Atomic, Molecular and Optical Physics, 1993, 26, 1403-1414.	1.5	7
43	Collapse ofdandforbitals in the isoelectronic sequence of singly ionized ytterbium. Physical Review A, 2000, 61, .	2.5	7
44	Relativistic E1 transition probabilities and lifetimes along Yb⁺isoelectronic sequence. Journal of Physics B: Atomic, Molecular and Optical Physics, 2012, 45, 145002.	1.5	6
45	Relativistic effects in E1 transition oscillator strengths along the Yb⁺isoelectronic sequence. Journal of Physics B: Atomic, Molecular and Optical Physics, 2014, 47, 075003.	1.5	5
46	Relativistic configuration-interaction study of transition probabilities in mercury withab initiomodel potential wave functions. Physical Review A, 2000, 61, .	2.5	4
47	Relativistic oscillator strengths of the rubidium isoelectronic sequence in the vicinity of thedorbital collapse region. Journal of Physics B: Atomic, Molecular and Optical Physics, 2016, 49, 185004.	1.5	4
48	Core-polarization corrected relativistic energies and radiative data for one-electron spectra of Bi V through U XIV. Canadian Journal of Physics, 2018, 96, 610-614.	1.1	3
49	Single- and multiparameter model potentials in calculations of energies and oscillator strengths for RbI and AgI. Journal of Quantitative Spectroscopy and Radiative Transfer, 1992, 48, 341-347.	2.3	2
50	Core-polarization corrected Dirac-Fock computations of one-electron spectra inÂtheÂrubidium isoelectronic sequence: Mo VI through Pb XLVI. Atomic Data and Nuclear Data Tables, 2021, 142, 101455.	2.4	2
51	Adjustable local approximations for the exchange interaction between valence and core electrons in model-potential calculations. Physical Review A, 1981, 24, 2228-2231.	2.5	1
52	Relativistic SCF calculations of transitions in the principal and intercombination series of mercury. Journal of Quantitative Spectroscopy and Radiative Transfer, 1987, 37, 183-191.	2.3	1
53	Comment on "Oscillator strengths for some systems with the ns2np ground-state configuration. II. Gallium isoelectronic sequence". Journal of Physics B: Atomic, Molecular and Optical Physics, 1994, 27, 825-828.	1.5	1
54	Core polarization and relativistic effects competition in the first ionization potentials for some systems in the Cu, Ag, and Au isoelectronic sequences. International Journal of Quantum Chemistry, 1984, 25, 77-77.	2.0	0

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55	Core-polarization corrected relativistic model potential energies and oscillator strengths for one-electron spectra of Ce XII through Ho XXI and for the W XXVIII spectrum of the silver isoelectronic sequence. Journal of Physics B: Atomic, Molecular and Optical Physics, 2019, 52, 125001.	1.5	0
56	Model potential study of Rydberg one-electron spectrum of thallium. Atomic Data and Nuclear Data Tables, 2020, 135-136, 101355.	2.4	0
57	Semi-empirical model potential study of Rydberg transitions in gold one-electron spectrum. Atomic Data and Nuclear Data Tables, 2020, 133-134, 101324.	2.4	0