

Karol Jankowski

List of Publications by Year in descending order

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103
papers

2,750
citations

186265

28
h-index

197818

49
g-index

104
all docs

104
docs citations

104
times ranked

624
citing authors

#	ARTICLE	IF	CITATIONS
19	Coupled cluster energy dependence on reference-state choice: impact of cluster operator structure. <i>Chemical Physics Letters</i> , 2001, 343, 365-374.	2.6	7
20	Dependence of state-universal coupled-cluster energies on the model-space-defining orbitals for states of varying quasidegeneracy. <i>Computational and Theoretical Chemistry</i> , 2001, 547, 55-68.	1.5	2
21	Second-order picture of correlation effects in closed-shell atoms. <i>Molecular Physics</i> , 2000, 98, 1125-1139.	1.7	16
22	Approximate Coupled Cluster Methods: Combined Reduced Multireference and Almost-Linear Coupled Cluster Methods with Singles and Doubles 11This paper is dedicated to Professor Giuseppe Del Re at the occasion of his 65th anniversary.. <i>Advances in Quantum Chemistry</i> , 2000, 36, 231-251.	0.8	18
23	Brueckner orbitals for multi-reference state theories. <i>Journal of Physics A</i> , 1999, 32, 2447-2459.	1.6	2
24	Physical and mathematical content of coupled-cluster equations. IV. Impact of approximations to the cluster operator on the structure of solutions. <i>Journal of Chemical Physics</i> , 1999, 111, 2952-2959.	3.0	27
25	Physical and mathematical content of coupled-cluster equations. II. On the origin of irregular solutions and their elimination via symmetry adaptation. <i>Journal of Chemical Physics</i> , 1999, 110, 9345-9352.	3.0	22
26	A perturbative approach to the almost-linear coupled-cluster formalism. <i>Chemical Physics Letters</i> , 1999, 311, 265-274.	2.6	0
27	Correspondence between physical states and solutions to the coupled-cluster equations. , 1999, 75, 483-496.		4
28	Physical and mathematical content of coupled-cluster equations. III. Model studies of dissociation processes for various reference states. <i>Journal of Chemical Physics</i> , 1999, 111, 2940-2951.	3.0	20
29	Physical and mathematical content of coupled-cluster equations: Correspondence between coupled-cluster and configuration-interaction solutions. <i>Journal of Chemical Physics</i> , 1999, 110, 3714-3729.	3.0	24
30	Full solution to the coupled-cluster equations: the H4 model. <i>Chemical Physics Letters</i> , 1998, 290, 180-188.	2.6	30
31	Model study of the impact of orbital choice on the accuracy of coupled-cluster energies. I. Single-reference-state formulation. <i>International Journal of Quantum Chemistry</i> , 1998, 67, 205-219.	2.0	10
32	Model study of the impact of orbital choice on the accuracy of coupled-cluster energies. II. Valence-universal coupled-cluster method. <i>International Journal of Quantum Chemistry</i> , 1998, 67, 221-237.	2.0	8
33	Model study of the impact of orbital choice on the accuracy of coupled-cluster energies. III. State-universal coupled-cluster method. <i>International Journal of Quantum Chemistry</i> , 1998, 67, 239-250.	2.0	11
34	Towards Complete Solutions to Systems of Nonlinear Equations of Many-Electron Theories. <i>Physical Review Letters</i> , 1998, 81, 1195-1198.	7.8	72
35	Approximate coupled-cluster methods employing split cluster amplitudes: Implementation of an almost-linear coupled-cluster formalism. <i>Journal of Chemical Physics</i> , 1998, 109, 6255-6263.	3.0	18
36	Generalized maximum-overlap orbitals for multi-reference-state theories. <i>Molecular Physics</i> , 1998, 94, 29-39.	1.7	5

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37	Generalization of the concept of Brueckner orbitals for multi-reference-state methods. <i>Chemical Physics Letters</i> , 1997, 277, 275-283.	2.6	5
38	Application of the valence-universal coupled-cluster method based on various model spaces. II. Nonstandard solutions for Be. <i>International Journal of Quantum Chemistry</i> , 1996, 59, 239-249.	2.0	5
39	Approximate coupled cluster methods based on a split-amplitude strategy. <i>Chemical Physics Letters</i> , 1996, 256, 141-148.	2.6	20
40	Multiple solutions of the single-reference coupled-cluster equations. II. Alternative reference states. <i>International Journal of Quantum Chemistry</i> , 1995, 53, 501-514.	2.0	17
41	Performance of valence-universal multireference coupled-cluster theory for quasi-degenerate states: TheH8 andDZPH4 models. <i>International Journal of Quantum Chemistry</i> , 1995, 55, 205-212.	2.0	3
42	Application of the valence-universal coupled-cluster method based on various model spaces to 1S states of Be. <i>International Journal of Quantum Chemistry</i> , 1995, 55, 269-275.	2.0	4
43	Impact of the choice of model spaces and basis sets on the performance of the valence-universal coupled-cluster method: Energies for Be and C2+. <i>Physical Review A</i> , 1995, 51, 4583-4596.	2.5	15
44	A valence-universal coupled-duster single- and double-excitations method for atoms. II. Application to Be. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1994, 27, 829-842.	1.5	29
45	A valence-universal coupled-cluster single- and double-excitations method for atoms. III. Solvability problems in the presence of intruder states. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1994, 27, 1287-1298.	1.5	29
46	Applicability of valence-universal multireference coupled-cluster theories to quasidegenerate electronic states. II. Models involving three-body amplitudes. <i>Journal of Chemical Physics</i> , 1994, 101, 3085-3095.	3.0	48
47	Application of the complete-model-space MR-CCSD theory to the 2s21S and 2p21S states of Be. <i>Chemical Physics Letters</i> , 1993, 205, 471-478.	2.6	16
48	Multiple solutions of the valence-universal coupled-cluster equations for Be, B+, and C2+. <i>International Journal of Quantum Chemistry</i> , 1993, 48, 59-72.	2.0	16
49	A valence-universal coupled-cluster single- and double-excitation method for atoms. I. Theory and application to the C2+ion. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1993, 26, 3035-3055.	1.5	18
50	Applicability of valence-universal multireference coupled-cluster theories to quasidegenerate electronic states. I. Models involving at most two-body amplitudes. <i>Journal of Chemical Physics</i> , 1992, 97, 7600-7612.	3.0	72
51	Method of moments approach and coupled cluster theory. <i>Theoretica Chimica Acta</i> , 1991, 80, 223-243.	0.8	60
52	Cluster relations for multireference coupled-cluster theories: A model study. <i>Journal of Chemical Physics</i> , 1991, 95, 3549-3561.	3.0	62
53	Ab initio studies of electron correlation in rare-earth ions. II. Non-transferable intershell correlation effects for 4f2in Pr3+. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1990, 23, 1951-1960.	1.5	10
54	Correlation and relativistic effects for many-electron systems. II. Second-order energies for closed-shell atoms. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1989, 22, 2669-2678.	1.5	10

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55	Size-extensivity in multireference many-body perturbation theories: A direct comparison between single-reference and multireference perturbation theories in the nondegenerate case. <i>International Journal of Quantum Chemistry</i> , 1989, 36, 705-726.	2.0	6
56	On the calculation of $K_{\hat{I}^2}/K_{\hat{I}^{\pm}}$ X-ray intensity ratios. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1989, 22, 2369-2376.	1.5	39
57	Intershell 4f electron correlation effects. <i>International Journal of Quantum Chemistry</i> , 1988, 34, 279-288.	2.0	9
58	A coupled-cluster method for quasidegenerate states. <i>International Journal of Quantum Chemistry</i> , 1988, 34, 535-557.	2.0	163
59	An alternative to the quasirelativistic approach. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1988, 21, L147-L150.	1.5	13
60	Structure of the correlation energy in 3d10 systems. <i>Journal of Chemical Physics</i> , 1988, 88, 7617-7622.	3.0	3
61	Correlation and relativistic effects for many-electron systems. <i>Physica Scripta</i> , 1987, 36, 464-467.	2.5	25
62	Electron-correlation contributions to the amplitudes of two-phonon absorption in N systems. <i>Molecular Physics</i> , 1987, 60, 1211-1219.	1.7	16
63	Accurate MR CI studies of the N_2 ground state. <i>Chemical Physics</i> , 1987, 111, 265-269.	1.9	15
64	Electron-correlation third-order contributions to the electric dipole transition amplitudes of rare earth ions in crystals. <i>Molecular Physics</i> , 1986, 59, 1165-1175.	1.7	44
65	Electron correlation effects in the 4f14 shell. <i>International Journal of Quantum Chemistry</i> , 1985, 27, 665-675.	2.0	10
66	Applicability of nondegenerate many-body perturbation theory to quasi-degenerate electronic states. II. A two-state model. <i>International Journal of Quantum Chemistry</i> , 1985, 28, 525-534.	2.0	50
67	The impact of higher polarization basis functions on molecular AB initio results II. The ground states of CO, N2, O2, and F2. <i>Chemical Physics</i> , 1985, 98, 381-386.	1.9	74
68	Davidson ϵ -type corrections for quasidegenerate states. <i>International Journal of Quantum Chemistry</i> , 1985, 28, 931-942.	2.0	128
69	Differential correlation effects for states of the 3d n and 3d n 4s m configurations. I. The copper and zinc atoms and their ions. <i>Journal of Physics B: Atomic and Molecular Physics</i> , 1985, 18, 2133-2146.	1.6	11
70	Second-order electron correlation energies for some 3d10 and 3d104s2 ions. <i>Journal of Chemical Physics</i> , 1985, 82, 841-847.	3.0	16
71	Differential correlation effects for states of the 3d n and 3d n 4s m configurations. II. A complete study of the energy splittings for the nickel atom. <i>Journal of Physics B: Atomic and Molecular Physics</i> , 1985, 18, 4383-4391.	1.6	9
72	On definitions of L convergence of atomic correlation energies. <i>Journal of Chemical Physics</i> , 1985, 82, 1969-1972.	3.0	4

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73	The impact of higher polarization basis functions on molecular ab initio results. I. The ground state of F ₂ . Journal of Chemical Physics, 1985, 82, 1413-1419.	3.0	117
74	An approximate method for the evaluation of electron correlation effects on atomic energy differences. Journal of Physics B: Atomic and Molecular Physics, 1984, 17, 2393-2411.	1.6	15
75	Accuracy of first-order wavefunctions for ten-electron atomic systems. Chemical Physics Letters, 1984, 105, 370-373.	2.6	10
76	Applicability of non-degenerate many-body perturbation theory to quasidegenerate electronic states: A model study. International Journal of Quantum Chemistry, 1983, 23, 1781-1802.	2.0	65
77	Ab initio studies of electron correlation in rare-earth ions I. Intrashell correlation for 4f ² in Pr ³⁺ . Journal of Physics B: Atomic and Molecular Physics, 1983, 16, 1667-1668.	1.6	5
78	Application of symmetry-adapted pair functions in atomic structure calculations. II. Third-order correlation energy of the neon atom. Physical Review A, 1982, 26, 2378-2394.	2.5	38
79	Second-order electron correlation energies for Zn ²⁺ and Zn. Journal of Chemical Physics, 1982, 76, 448-457.	3.0	39
80	Accurate third-order correlation energies for closed-shell systems. I. Ten-electron systems. Journal of Physics B: Atomic and Molecular Physics, 1982, 15, 1137-1159.	1.6	24
81	Accurate third-order correlation energies for closed-shell systems. II. Two- and four-electron systems. Journal of Physics B: Atomic and Molecular Physics, 1982, 15, 4063-4077.	1.6	16
82	Symmetry-adapted coupled-pair approach to the many-electron correlation problem. III. Approximate coupled-pair approaches for the Be atom. Physical Review A, 1981, 24, 2330-2338.	2.5	56
83	Symmetry-adapted coupled-pair approach to the many-electron correlation problem. II. Application to the Be atom. Physical Review A, 1981, 24, 2316-2329.	2.5	61
84	Ab initio studies of electron correlation in rare-earth ions. I. Intrashell correlation for 4f ² in Pr ³⁺ . Journal of Physics B: Atomic and Molecular Physics, 1981, 14, 3345-3353.	1.6	11
85	Effect of electron correlation on the forced electric dipole transition probabilities in N systems. Molecular Physics, 1981, 43, 371-382.	1.7	10
86	Applicability of coupled-pair theories to quasidegenerate electronic states: A model study. International Journal of Quantum Chemistry, 1980, 18, 1243-1269.	2.0	310
87	Transferability of the partial-wave increments to the second-order pair correlation energies for atoms. Journal of Physics B: Atomic and Molecular Physics, 1980, 13, 3909-3919.	1.6	18
88	Application of symmetry-adapted pair functions in atomic structure calculations: A variational-perturbation treatment of the Ne atom. Physical Review A, 1980, 21, 45-65.	2.5	89
89	Second-order correlation energies for F ¹⁺ , Na ¹⁺ , Mg ²⁺ , and Ar ⁸⁺ : Z-dependence of irreducible-pair energies. Physical Review A, 1980, 22, 51-60.	2.5	48
90	Accurate second order correlation energies of He and Be. Journal of Physics B: Atomic and Molecular Physics, 1979, 12, 2965-2969.	1.6	23

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91	Second-order correlation energies of Mg and Ar. <i>Journal of Physics B: Atomic and Molecular Physics</i> , 1979, 12, 3157-3170.	1.6	35
92	Pair correlation energies for the 3d shell. <i>Journal of Physics B: Atomic and Molecular Physics</i> , 1979, 12, 345-353.	1.6	30
93	Quasi-degeneracy and coupled-pair theories. <i>Chemical Physics Letters</i> , 1979, 67, 144-148.	2.6	39
94	Electron pair correlation energies for ZN^{2+} . <i>International Journal of Quantum Chemistry</i> , 1979, 16, 65-70.	2.0	9
95	Electron correlation effects on transition probabilities of $LaCl_3: Pr^{3+}$. <i>Molecular Physics</i> , 1979, 38, 1459-1465.	1.7	18
96	Effect of electron correlation on the forced electric dipole transition probabilities in f systems. <i>Molecular Physics</i> , 1979, 38, 1445-1457.	1.7	29
97	An investigation of the reliability of the Galerkin-Petrov method. <i>Theoretica Chimica Acta</i> , 1978, 47, 275-282.	0.8	3
98	An investigation of the reliability of the Galerkin-Petrov method. <i>Theoretica Chimica Acta</i> , 1978, 48, 119-125.	0.8	4
99	Second-order correlation energy of the neon atom. <i>Chemical Physics Letters</i> , 1978, 54, 68-72.	2.6	28
100	An investigation of the reliability of the Galerkin-Petrov method with a special study of the helium atom ground state. <i>Theoretica Chimica Acta</i> , 1976, 43, 145-159.	0.8	4
101	A characterization of pairs of subspaces for quantum chemical applications of the Galerkin-Petrov method. <i>International Journal of Quantum Chemistry</i> , 1976, 10, 683-697.	2.0	18
102	Applicability of the Galerkin-Petrov method in quantum chemistry. The quartic oscillator problem. <i>Chemical Physics Letters</i> , 1973, 19, 418-421.	2.6	14
103	A perturbation treatment for two-electron atomic systems with correlation in zero order. <i>Theoretica Chimica Acta</i> , 1969, 13, 165-170.	0.8	3