

# Josef Paldus

## List of Publications by Year in descending order

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254  
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14614

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#	ARTICLE	IF	CITATIONS
1	Matrix elements of unitary group generators in many-fermion correlation problem. II. Graphical methods of spin algebras. <i>Journal of Mathematical Chemistry</i> , 2021, 59, 37-71.	0.7	10
2	Matrix elements of unitary group generators in many-fermion correlation problem. III. Green-Gould approach. <i>Journal of Mathematical Chemistry</i> , 2021, 59, 72-118.	0.7	3
3	Matrix elements of unitary group generators in many-fermion correlation problem. I. tensorial approaches. <i>Journal of Mathematical Chemistry</i> , 2021, 59, 1-36.	0.7	12
4	Valence bond approach and Verma bases. <i>Journal of Mathematical Chemistry</i> , 2018, 56, 1595-1630.	0.7	3
5	Externally and internally corrected coupled cluster approaches: an overview. <i>Journal of Mathematical Chemistry</i> , 2017, 55, 477-502.	0.7	29
6	Multireference coupled-cluster approaches to excited states. , 2015, , .		1
7	On the cluster structure of linear-chain fermionic wave functions. <i>Journal of Mathematical Chemistry</i> , 2015, 53, 629-650.	0.7	1
8	CCSD(T) calculations of confined systems: In-crystal polarizabilities of $F\hat{a}^{\sim}$ , $Cl\hat{a}^{\sim}$ , $O_2\hat{a}^{\sim}$ , and $S_2\hat{a}^{\sim}$ . <i>Journal of Chemical Physics</i> , 2014, 141, 214303.	1.2	16
9	Unitary group approach to the many-electron correlation problem: spin-dependent operators. <i>Theoretical Chemistry Accounts</i> , 2014, 133, 1.	0.5	7
10	Symmetry-breaking in the independent particle model: nature of the singular behavior of Hartree-Fock potentials. <i>Journal of Mathematical Chemistry</i> , 2013, 51, 427-450.	0.7	1
11	Multi-reference state-universal coupled-cluster approaches to electronically excited states. <i>Journal of Chemical Physics</i> , 2011, 134, 214118.	1.2	23
12	Multireference coupled-cluster study of the symmetry breaking in the C2B radical. <i>Journal of Chemical Physics</i> , 2011, 134, 074301.	1.2	4
13	Model space incompleteness in multireference state-universal and state-selective coupled-cluster theories. <i>Chemical Physics Letters</i> , 2010, 496, 183-187.	1.2	29
14	Multireference coupled-cluster methods for ground and low-lying excited states. A benchmark illustration on CH <sup>+</sup> potentials. <i>International Journal of Quantum Chemistry</i> , 2010, 110, 2734-2743.	1.0	13
15	Multireference Coupled-Cluster Methods: Recent Developments. <i>Challenges and Advances in Computational Chemistry and Physics</i> , 2010, , 455-489.	0.6	36
16	QCI and related CC approaches: a retrospection. <i>Molecular Physics</i> , 2010, 108, 2941-2950.	0.8	10
17	Performance of multireference and equation-of-motion coupled-cluster methods for potential energy surfaces of low-lying excited states: Symmetric and asymmetric dissociation of water. <i>Journal of Chemical Physics</i> , 2010, 133, 024102.	1.2	8
18	Multireference general-model-space state-universal and state-specific coupled-cluster approaches to excited states. <i>Journal of Chemical Physics</i> , 2010, 133, 184106.	1.2	38

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19	A Multireference Coupled-Cluster Study of Electronic Excitations in Furan and Pyrrole. Journal of Physical Chemistry A, 2010, 114, 8591-8600.	1.1	23
20	Accounting for the exact degeneracy and quasidegeneracy in the automerization of cyclobutadiene via multireference coupled-cluster methods. Journal of Chemical Physics, 2009, 131, 114103.	1.2	46
21	Symmetry breaking in spin-restricted, open-shell Hartree-Fock wave functions. International Journal of Quantum Chemistry, 2009, 109, 1756-1765.	1.0	10
22	Energetics of 1,4-didehydropolyene diradicals and performance of reduced multireference coupled-cluster method. International Journal of Quantum Chemistry, 2009, 109, 3305-3314.	1.0	5
23	Symmetry breaking in spin-restricted Hartree-Fock solutions: the case of the C2 molecule and the N2+ and F2+ cations. Physical Chemistry Chemical Physics, 2009, 11, 5281.	1.3	17
24	Do independent-particle-model broken-symmetry solutions contain more physics than the symmetry-adapted ones? The case of homonuclear diatomics. Journal of Chemical Physics, 2009, 130, 084110.	1.2	21
25	The Energy Level Structure of Low-dimensional Multi-electron Quantum Dots. Advances in Quantum Chemistry, 2009, , 177-201.	0.4	15
26	Analysis and classification of symmetry breaking in linear ABA-type triatomics. Journal of Chemical Physics, 2009, 130, 164116.	1.2	8
27	Approximate symmetry-breaking in the independent particle model of monocyclic completely conjugated polyenes. Journal of Mathematical Chemistry, 2008, 44, 88-120.	0.7	9
28	Coupled-cluster approach to spontaneous symmetry breaking in molecules: The linear N <sub>3</sub> radical. International Journal of Quantum Chemistry, 2008, 108, 2117-2127.	1.0	14
29	On the significance of quadruply excited clusters in coupled-cluster calculations for the low-lying states of BN and $C_{2v}$ . Chemical Physics Letters, 2008, 461, 321-326.	1.2	26
30	Independent particle model of spontaneous symmetry breaking in planar $\pi$ -electron systems. European Physical Journal D, 2008, 46, 453-461.	0.6	4
31	Full potential energy curve for N2 by the reduced multireference coupled-cluster method. Journal of Chemical Physics, 2008, 129, 054104.	1.2	69
32	REDUCED MULTIREFERENCE COUPLED-CLUSTER METHOD AND ITS APPLICATION TO THE PYRIDYNE DIRADICALS. Journal of Theoretical and Computational Chemistry, 2008, 07, 805-820.	1.8	18
33	Partially linearized, fully size-extensive, and reduced multireference coupled-cluster methods. I. Formalism and mutual relationship. Journal of Chemical Physics, 2008, 128, 144118.	1.2	25
34	Partially linearized, fully size-extensive, and reduced multireference coupled-cluster methods. II. Applications and performance. Journal of Chemical Physics, 2008, 128, 144119.	1.2	30
35	Nondynamic Correlation and Coupled-Cluster Methods. AIP Conference Proceedings, 2008, , .	0.3	0
36	Binding in transition metal complexes: Reduced multireference coupled-cluster study of the MCH <sub>2</sub> + (M=Sc to Cu) compounds. Journal of Chemical Physics, 2007, 126, 234303.	1.2	24

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37	Real or artifactual symmetry breaking in the BNB radical: A multireference coupled cluster viewpoint. <i>Journal of Chemical Physics</i> , 2007, 126, 224304.	1.2	37
38	A Critical Assessment of Coupled Cluster Method in Quantum Chemistry. <i>Advances in Chemical Physics</i> , 2007, , 1-175.	0.3	285
39	Reduced Multireference Coupled-Cluster Method: Barrier Heights for Heavy Atom Transfer, Nucleophilic Substitution, Association, and Unimolecular Reactions. <i>Journal of Physical Chemistry A</i> , 2007, 111, 11189-11197.	1.1	16
40	Hartree-Fock Stability and Broken Symmetry Solutions of O <sup>2-</sup> - and S <sup>2-</sup> - Anions in External Confinement. <i>Collection of Czechoslovak Chemical Communications</i> , 2007, 72, 197-222.	1.0	10
41	A truncated version of reduced multireference coupled-cluster method with singles and doubles and noniterative triples: Application to F <sub>2</sub> and Ni(CO) <sub>n</sub> (n=1, 2, and 4). <i>Journal of Chemical Physics</i> , 2006, 125, 164107.	1.2	43
42	General-model-space state-universal coupled-cluster methods for excited states: Diagonal noniterative triple corrections. <i>Journal of Chemical Physics</i> , 2006, 124, 034112.	1.2	60
43	Reduced multireference coupled cluster method with singles and doubles: Perturbative corrections for triples. <i>Journal of Chemical Physics</i> , 2006, 124, 174101.	1.2	84
44	Diagonal perturbative triple corrections to the general-model-space state-universal coupled-cluster method: Are they warranted and useful?. <i>Molecular Physics</i> , 2006, 104, 2047-2062.	0.8	6
45	General-model-space state-universal coupled-cluster method: excitation energies of water. <i>Molecular Physics</i> , 2006, 104, 661-676.	0.8	25
46	Singlet-triplet separation in BN and C <sub>2</sub> : Simple yet exceptional systems for advanced correlated methods. <i>Chemical Physics Letters</i> , 2006, 431, 179-184.	1.2	40
47	Angular Momentum Diagrams. <i>Advances in Quantum Chemistry</i> , 2006, , 59-123.	0.4	15
48	Diagonal perturbative triple corrections to the general-model-space state-universal coupled-cluster method: are they warranted and useful?. <i>Molecular Physics</i> , 2006, 104, 2047-2062.	0.8	16
49	Recursive generation of natural orbitals in a truncated orbital space. <i>International Journal of Quantum Chemistry</i> , 2005, 105, 672-678.	1.0	6
50	Multi-reference Brillouin-Wigner coupled-cluster method with a general model space. <i>Molecular Physics</i> , 2005, 103, 2239-2245.	0.8	49
51	The beginnings of coupled-cluster theory. , 2005, , 115-147.		52
52	Can We Avoid the Intruder-State Problems in the State-Universal Coupled-Cluster Approaches While Preserving Size Extensivity?. <i>Collection of Czechoslovak Chemical Communications</i> , 2004, 69, 90-104.	1.0	24
53	General-Model-Space State-Universal Coupled-Cluster Method: Diagrammatic Approach. <i>Journal of Mathematical Chemistry</i> , 2004, 35, 215-251.	0.7	25
54	Size extensivity of a general-model-space state-universal coupled-cluster method. <i>International Journal of Quantum Chemistry</i> , 2004, 99, 914-924.	1.0	38

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55	Performance of the general-model-space state-universal coupled-cluster method. <i>Journal of Chemical Physics</i> , 2004, 120, 5890-5902.	1.2	69
56	General-model-space state-universal coupled-cluster theory: Connectivity conditions and explicit equations. <i>Journal of Chemical Physics</i> , 2003, 119, 5320-5333.	1.2	141
57	The general-model-space state-universal coupled-cluster method exemplified by the LiH molecule. <i>Journal of Chemical Physics</i> , 2003, 119, 5346-5357.	1.2	87
58	N-reference, M-state coupled-cluster method: Merging the state-universal and reduced multireference coupled-cluster theories. <i>Journal of Chemical Physics</i> , 2003, 119, 5334-5345.	1.2	69
59	Analysis of the multireference state-universal coupled-cluster Ansatz. <i>Journal of Chemical Physics</i> , 2003, 118, 6769-6783.	1.2	48
60	COUPLED-CLUSTER APPROACH TO CORRELATION IN SMALL MOLECULES: ENERGY VERSUS AMPLITUDE CORRECTED METHODS. <i>International Journal of Modern Physics B</i> , 2003, 17, 5379-5391.	1.0	3
61	Symmetry Breaking in the Independent Particle Model. , 2003, , 67-139.		39
62	Simultaneous Account of Dynamic and Nondynamic Correlations Based on Complementarity of CI and CC Approaches. <i>ACS Symposium Series</i> , 2002, , 10-30.	0.5	12
63	Energy- versus amplitude-corrected coupled-cluster approaches. III. Accurate computation of spectroscopic data exemplified on the HF molecule. <i>Journal of Chemical Physics</i> , 2002, 117, 1941-1955.	1.2	39
64	COUPLED-CLUSTER APPROACH TO CORRELATION IN SMALL MOLECULES: ENERGY <i>VS.</i> AMPLITUDE CORRECTED METHODS. , 2002, , .		0
65	Energy versus amplitude corrected coupled-cluster approaches. I. <i>Journal of Chemical Physics</i> , 2001, 115, 5759-5773.	1.2	49
66	Energy versus amplitude corrected coupled-cluster approaches. II. Breaking the triple bond. <i>Journal of Chemical Physics</i> , 2001, 115, 5774-5783.	1.2	78
67	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.	0.4	18
68	Algebraic solutions for point groups: Cubic groups $G$ in the group chain $G \supset T \supset D_2 \supset C_2$ . <i>International Journal of Quantum Chemistry</i> , 2000, 76, 585-599.	1.0	5
69	Effect of spin contamination on the prediction of barrier heights by coupled-cluster theory: $F+H_2 \rightarrow HF+H$ reaction. <i>International Journal of Quantum Chemistry</i> , 2000, 77, 281-290.	1.0	17
70	Reciprocal adjustment of approximate coupled cluster and configuration interaction approaches. <i>International Journal of Quantum Chemistry</i> , 2000, 77, 693-703.	1.0	18
71	Truncated version of the reduced multireference coupled-cluster method with perturbation selection of higher than pair clusters. <i>International Journal of Quantum Chemistry</i> , 2000, 80, 743-756.	1.0	42
72	Direct iterative solution of the generalized Bloch equation. V. Application to $N_2$ . <i>International Journal of Quantum Chemistry</i> , 2000, 80, 782-798.	1.0	9

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73	Unitary group based coupled cluster method for open-shell singlets: application to the $a1\hat{1}^{\pi}$ state of OH+. Computational and Theoretical Chemistry, 2000, 527, 165-172.	1.5	4
74	Reduced multireference coupled cluster method IV: open-shell systems. Molecular Physics, 2000, 98, 1185-1199.	0.8	70
75	Reduced multireference coupled cluster method: Ro-vibrational spectra of N2. Journal of Chemical Physics, 2000, 113, 9966-9977.	1.2	91
76	Direct iterative solution of the generalized Bloch equation. II. A general formalism for many-electron systems. Journal of Chemical Physics, 2000, 113, 2594-2611.	1.2	19
77	Direct iterative solution of the generalized Bloch equation. IV. Application to H2, LiH, BeH, and CH2. Journal of Chemical Physics, 2000, 113, 2622-2637.	1.2	21
78	Direct iterative solution of the generalized Bloch equation. III. Application to H2-cluster models. Journal of Chemical Physics, 2000, 113, 2612-2621.	1.2	15
79	Truncated version of the reduced multireference coupled cluster method with perturbation selection of higher than pair clusters. International Journal of Quantum Chemistry, 2000, 80, 743-756.	1.0	2
80	Perturbatively selected CI as an optimal source for externally corrected CCSD. Journal of Chemical Physics, 1999, 110, 11708-11716.	1.2	31
81	Size dependence of the $X1A_g^?11B_u$ excitation energy in linear polyenes. International Journal of Quantum Chemistry, 1999, 74, 177-192.	1.0	12
82	Electron Correlation in Small Molecules: Grafting CI onto CC. Topics in Current Chemistry, 1999, , 1-20.	4.0	31
83	Simultaneous handling of dynamical and nondynamical correlation via reduced multireference coupled cluster method: Geometry and harmonic force field of ozone. Journal of Chemical Physics, 1999, 110, 2844-2852.	1.2	102
84	Dissociation of N2 triple bond: a reduced multireference CCSD study. Chemical Physics Letters, 1998, 286, 145-154.	1.2	90
85	Unitary-group-based open-shell coupled-cluster method with corrections for connected triexcited clusters. I. Theory. International Journal of Quantum Chemistry, 1998, 70, 65-75.	1.0	10
86	Externally corrected singles and doubles coupled cluster methods for open-shell systems. II. Applications to the low lying doublet states of OH, NH2, CH3 and CN radicals. Molecular Physics, 1998, 94, 235-248.	0.8	35
87	Reduced multireference couple cluster method. II. Application to potential energy surfaces of HF, F2, and H2O. Journal of Chemical Physics, 1998, 108, 637-648.	1.2	158
88	Singlet-Triplet Splitting in Methylene: An Accurate Description of Dynamic and Nondynamic Correlation by Reduced Multireference Coupled Cluster Method. Collection of Czechoslovak Chemical Communications, 1998, 63, 1381-1393.	1.0	43
89	Unitary group based open-shell coupled cluster method with corrections for connected triexcited clusters. II. Applications. Molecular Physics, 1998, 94, 41-54.	0.8	14
90	Reduced multireference CCSD method: An effective approach to quasidegenerate states. Journal of Chemical Physics, 1997, 107, 6257-6269.	1.2	253

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91	Externally corrected singles and doubles coupled cluster methods for open-shell systems. Journal of Chemical Physics, 1997, 107, 90-98.	1.2	86
92	UNITARY GROUP BASED COUPLED CLUSTER METHODS AND CALCULATION OF MOLECULAR PROPERTIES. Recent Advances in Computational, 1997, , 183-219.	0.8	14
93	Title is missing!. Journal of Mathematical Chemistry, 1997, 21, 51-70.	0.7	13
94	Single-reference CCSD approach employing three- and four-body CAS SCF corrections: A preliminary study of a simple model. International Journal of Quantum Chemistry, 1997, 62, 137-151.	1.0	58
95	Estimates of the structure and dimerization energy of polyacetylene from ab initio calculations on finite polyenes. International Journal of Quantum Chemistry, 1997, 63, 345-360.	1.0	24
96	Calculation of static molecular properties in the framework of the unitary group based coupled cluster approach. Canadian Journal of Chemistry, 1996, 74, 918-930.	0.6	19
97	Bond length alternation in cyclic polyenes. VII. Valence bond theory approach. International Journal of Quantum Chemistry, 1996, 60, 513-527.	1.0	13
98	Molecular quadrupole moment functions of HF and N <sub>2</sub> . I. Abinitio linear response coupled cluster results. Journal of Chemical Physics, 1996, 104, 4699-4715.	1.2	79
99	Molecular quadrupole moment functions of HF and N <sub>2</sub> . II. Rovibrational effects. Journal of Chemical Physics, 1996, 104, 4716-4727.	1.2	20
100	Molecular quadrupole moment function of ammonia. Journal of Chemical Physics, 1996, 105, 11068-11074.	1.2	18
101	Orthogonally spin-adapted single-reference coupled cluster formalism: Linear response calculation of higher-order static properties. Journal of Chemical Physics, 1996, 104, 8566-8585.	1.2	50
102	A unitary group based open-shell coupled cluster study of vibrational frequencies in ground and excited states of first row diatomics. Journal of Chemical Physics, 1996, 104, 9555-9562.	1.2	36
103	Approximate account of connected quadruply excited clusters in single-reference coupled-cluster theory via cluster analysis of the projected unrestricted Hartree-Fock wave function. Physical Review A, 1996, 54, 1210-1241.	1.0	115
104	Perturbation expansion of the ground-state energy for the one-dimensional cyclic Hubbard system in the $\hbar^{-1}$ limit. International Journal of Quantum Chemistry, 1995, 53, 457-466.	1.0	10
105	Coupled-Cluster approaches with an approximate account of triply and quadruply excited clusters: Implementation of the orthogonally spin-adapted CCD + ST(CCD), CCSD + T(CCSD), and ACPQ + ST(ACPQ) formalisms. International Journal of Quantum Chemistry, 1995, 55, 133-146.	1.0	48
106	Unitary group approach to spin-adapted open-shell coupled cluster theory. International Journal of Quantum Chemistry, 1995, 56, 129-155.	1.0	75
107	Unitary group based open-shell coupled cluster approach and triplet and open-shell singlet stabilities of Hartree-Fock references. Journal of Chemical Physics, 1995, 103, 6536-6547.	1.2	27
108	Orthogonally spin-adapted single-reference coupled cluster formalism: Linear response calculation of static properties. Journal of Chemical Physics, 1995, 102, 6511-6524.	1.2	55

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109	Unitary group based state-selective coupled-cluster method: Comparison of the first order interacting space and the full single and double excitation space approximations. Journal of Chemical Physics, 1995, 102, 8897-8905.	1.2	37
110	Unitary group based state specific open-shell-singlet coupled-cluster method: Application to ozone and comparison with Hilbert and Fock space theories. Journal of Chemical Physics, 1995, 102, 8059-8070.	1.2	30
111	Comparison of the open-shell state-universal and state-selective coupled-cluster theories: H4 and H8 models. Journal of Chemical Physics, 1995, 103, 1024-1034.	1.2	43
112	Spin-adapted open-shell state-selective coupled cluster approach and doublet stability of its Hartree-Fock reference. Journal of Chemical Physics, 1995, 102, 2013-2023.	1.2	40
113	Orthogonally spin-adapted state-universal coupled-cluster formalism: Implementation of the complete two-reference theory including cubic and quartic coupling terms. Journal of Chemical Physics, 1994, 101, 5875-5890.	1.2	112
114	Automation of the implementation of spin-adapted open-shell coupled-cluster theories relying on the unitary group formalism. Journal of Chemical Physics, 1994, 101, 8812-8826.	1.2	160
115	Applicability of valence-universal multireference coupled-cluster theories to quasidegenerate electronic states. II. Models involving three-body amplitudes. Journal of Chemical Physics, 1994, 101, 3085-3095.	1.2	48
116	Quasi-Spin and the pseudo-orthogonal group in the hubbard model. International Journal of Quantum Chemistry, 1994, 50, 207-231.	1.0	7
117	Evaluation of group theoretical characteristics using the symbolic manipulation language MAPLE. International Journal of Quantum Chemistry, 1994, 52, 139-154.	1.0	4
118	Valence bond corrected single reference coupled cluster approach. Theoretica Chimica Acta, 1994, 89, 13-31.	0.9	107
119	Valence bond corrected single reference coupled cluster approach. Theoretica Chimica Acta, 1994, 89, 33-57.	0.9	54
120	Valence bond corrected single reference coupled cluster approach. Theoretica Chimica Acta, 1994, 89, 59-76.	0.9	66
121	Computation of ionization potentials using the unitary group based open-shell coupled-cluster theory. Chemical Physics Letters, 1994, 231, 1-8.	1.2	14
122	Algebraic Approach to Coupled Cluster Theory. NATO ASI Series Series B: Physics, 1994, , 207-282.	0.2	80
123	Valence bond corrected single reference coupled cluster approach. Theoretica Chimica Acta, 1994, 89, 13-31.	0.9	17
124	Valence bond corrected single reference coupled cluster approach. Theoretica Chimica Acta, 1994, 89, 33-57.	0.9	7
125	Multiconfigurational spin-adapted single-reference coupled cluster formalism. International Journal of Quantum Chemistry, 1993, 48, 269-285.	1.0	30
126	Unitary group tensor operator algebras for many-electron systems. III. Matrix elements in $U(n_1 + n_2) \times U(n_1) \times U(n_2)$ partitioned basis. Journal of Mathematical Chemistry, 1993, 14, 325-355.	0.7	8



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127	Unitary group tensor operator algebras for many-electron systems: II. One- and two-body matrix elements. <i>Journal of Mathematical Chemistry</i> , 1993, 13, 273-316.	0.7	17
128	Unitary group approach to reduced density matrices. <i>Theoretica Chimica Acta</i> , 1993, 86, 83-96.	0.9	11
129	Application of Hilbert-space coupled-cluster theory to simple (H <sub>2</sub> ) <sub>2</sub> model systems: Planar models. <i>Physical Review A</i> , 1993, 47, 2738-2782.	1.0	217
130	Unitary Group Approach to Valence Bond and Coupled Cluster Methods. , 1993, , 573-591.		21
131	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.	1.2	72
132	Lie algebraic approach to valence bond theory of $\pi$ -electron systems: a preliminary study of excited states. <i>AIP Conference Proceedings</i> , 1992, , .	0.3	6
133	Valence bond approach exploiting Clifford algebra realization of Rumer-Weyl basis. <i>International Journal of Quantum Chemistry</i> , 1992, 41, 117-146.	1.0	35
134	Electron correlation in one dimension: Coupled cluster approaches to cyclic polyene $\pi$ -electron models. <i>International Journal of Quantum Chemistry</i> , 1992, 42, 135-164.	1.0	43
135	Behavior of coupled cluster energy in the strongly correlated limit of the cyclic polyene model. Comparison with the exact results. <i>International Journal of Quantum Chemistry</i> , 1992, 42, 165-191.	1.0	22
136	Orthogonally spin-adapted multi-reference Hilbert space coupled-cluster formalism: diagrammatic formulation. <i>Theoretica Chimica Acta</i> , 1992, 83, 69-103.	0.9	117
137	Coupled Cluster Theory. <i>NATO ASI Series Series B: Physics</i> , 1992, , 99-194.	0.2	168
138	PPP-VB Theory of $\pi$ -Electron Systems: Electron Delocalization, Molecular Symmetry, and Resonance. <i>Israel Journal of Chemistry</i> , 1991, 31, 351-362.	1.0	21
139	Relationship between Lieb and Wu Approach and Standard Configuration Interaction Method for the $B_{2u}$ State of the Hubbard Model of Benzene. <i>Israel Journal of Chemistry</i> , 1991, 31, 423-426.	1.0	4
140	Valence bond approach to the Pariser-Parr-Pople Hamiltonian and its application to simple $\pi$ -electron systems. <i>Computational and Theoretical Chemistry</i> , 1991, 229, 249-278.	1.5	38
141	On the solution of coupled-cluster equations in the fully correlated limit of cyclic polyene model. <i>International Journal of Quantum Chemistry</i> , 1991, 40, 9-34.	1.0	39
142	Method of moments approach and coupled cluster theory. <i>Theoretica Chimica Acta</i> , 1991, 80, 223-243.	0.9	60
143	Applicability of multi-reference many-body perturbation theory to the determination of potential energy surfaces: A model study. <i>International Journal of Quantum Chemistry</i> , 1990, 38, 761-778.	1.0	66
144	Explicit algebraic form of coupled cluster equations for the PPP model of benzene with an approximate inclusion of triexcited clusters. <i>International Journal of Quantum Chemistry</i> , 1990, 38, 831-851.	1.0	9

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145	Coupled cluster approaches with an approximate account of triexcitations and the optimized inner projection technique. <i>Theoretica Chimica Acta</i> , 1990, 78, 65-128.	0.9	107
146	Unitary group tensor operator algebras for many-electron systems: I. Clebsch-Gordan and Racah coefficients. <i>Journal of Mathematical Chemistry</i> , 1990, 4, 295-353.	0.7	19
147	Coupled cluster approach or quadratic configuration interaction?: Reply to comment by Pople, Head-Gordon, and Raghavachari. <i>Journal of Chemical Physics</i> , 1990, 93, 1485-1486.	1.2	34
148	Coupled-cluster approaches with an approximate account of triexcitations and the optimized-inner-projection technique. II. Coupled-cluster results for cyclic-polyene model systems. <i>Physical Review B</i> , 1990, 42, 3351-3379.	1.1	65
149	Unitary group approach to reduced density matrices. <i>Journal of Chemical Physics</i> , 1990, 93, 4142-4153.	1.2	33
150	Spin-dependent unitary group approach. I. General formalism. <i>Journal of Chemical Physics</i> , 1990, 92, 7394-7401.	1.2	53
151	Relationship between $SN$ and $U(n)$ isoscalar factors and higher-order $U(n)$ invariants. <i>Journal of Mathematical Physics</i> , 1990, 31, 1589-1599.	0.5	16
152	Coupled-cluster approaches with an approximate account of triexcitations and the optimized-inner-projection technique. III. Lower bounds to the ground-state correlation energy of cyclic-polyene model systems. <i>Physical Review A</i> , 1990, 42, 5155-5167.	1.0	18
153	Valence universal exponential ansatz and the cluster structure of multireference configuration interaction wave function. <i>Journal of Chemical Physics</i> , 1989, 90, 2714-2731.	1.2	214
154	Clifford algebra realization of Rumer-Weyl basis. <i>Computational and Theoretical Chemistry</i> , 1989, 199, 85-101.	1.5	27
155	Vectorizable approach to molecular CI problems using determinantal basis. <i>Chemical Physics Letters</i> , 1989, 155, 183-188.	1.2	98
156	Spin adaptation of antisymmetrized geminal product wave functions. <i>International Journal of Quantum Chemistry</i> , 1989, 36, 35-48.	1.0	4
157	Explicit representation of Gelfand-Tsetlin states in clifford algebra unitary group approach. <i>International Journal of Quantum Chemistry</i> , 1989, 36, 127-140.	1.0	16
158	Orthogonally spin-adapted coupled-cluster equations involving singly and doubly excited clusters. Comparison of different procedures for spin-adaptation. <i>International Journal of Quantum Chemistry</i> , 1989, 36, 429-453.	1.0	118
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