Raymond F Bishop

List of Publications by Year
in descending order

216 papers	4,913 citations	81743 39 h-index	123241 61 g-index
220 all docs	220 docs citations	220 times ranked	1446 citing authors

#	Article	IF	Citations
1	An overview of coupled cluster theory and its applications in physics. Theoretica Chimica Acta, 1991, 80, 95-148.	0.9	289
2	The Coupled Cluster Method. Physics Today, 1987, 40, 52-60.	0.3	168
3	Extended coupled-cluster method. I. Generalized coherent bosonization as a mapping of quantum theory into classical Hamiltonian mechanics. Physical Review A, 1987, 36, 2519-2538.	1.0	163
4	Electron correlations: I. Ground-state results in the high-density regime. Physical Review B, 1978, 17, 3757-3780.	1.1	157
5	Electron correlations. II. Ground-state results at low and metallic densities. Physical Review B, 1982, 26, 5523-5557.	1.1	130
6	An Efficient Implementation of High-Order Coupled-Cluster Techniques Applied to Quantum Magnets. Journal of Statistical Physics, 1998, 90, 327-361.	0.5	114
7	Extended coupled-cluster method. II. Excited states and generalized random-phase approximation. Physical Review A, 1987, 36, 2539-2549.	1.0	102
8	A variational approach to nuclear matter with realistic potentials. Nuclear Physics A, 1977, 277, 45-68.	0.6	89
9	Heisenberg antiferromagnet on the kagome lattice with arbitrary spin: A higher-order coupled cluster treatment. Physical Review B, 2011, 84, .	1.1	86
10	Coupled-cluster treatments of correlations in quantum antiferromagnets. Physical Review B, 1991, 44, 9425-9443.	1.1	84
11	Phase transitions in the spin-halfJ1â^'J2model. Physical Review B, 1998, 58, 6394-6402.	1.1	81
12	Phase diagram of a frustrated Heisenberg antiferromagnet on the honeycomb lattice: The<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>J</mml:mi><mml:mn>1</mml:mn></mml:msub></mml:math>-<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>J</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math>-<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"	1.1	81
13	Quantum phase transitions of a square-lattice Heisenberg antiferromagnet with two kinds of nearest-neighbor bonds: A high-order coupled-cluster treatment. Physical Review B, 2000, 61, 14607-14615.	1.1	79
14	Constrained variation in Jastrow method at high density. Annals of Physics, 1976, 102, 170-188.	1.0	73
15	Magnetic order in a spin-<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mstyle scriptlevel="1"><mml:mfrac bevelled="false"><mml:mn>1</mml:mn><mml:mn>2</mml:mn></mml:mfrac></mml:mstyle></mml:mrow></mml:math>interpolating square-triangle Heisenberg antiferromagnet. Physical Review B, 2009, 79, .	1.1	69
16	Displaced and squeezed parity operator: Its role in classical mappings of quantum theories. Physical Review A, 1994, 50, 4488-4501.	1.0	68
17	Quasiclassical magnetic order and its loss in a spin-<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mfrac><mml:mn>1</mml:mn><mml:mn>2</mml:mn></mml:mfrac></mml:math> antiferromagnet on a triangular lattice with competing bonds. Physical Review B, 2015, 91, .	1.1	67
18	Systematic Inclusion of High-Order Multispin Correlations for the Spin-Â½XXZModels. Physical Review Letters, 1994, 73, 3157-3160.	2.9	63

#	Article	IF	Citations
19	Effect of anisotropy on the ground-state magnetic ordering of the spin-half quantum<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msubsup><mml:mi>J</mml:mi><mml:mn>1</mml:mn><mml:mrow><mml:mi>X</mml:mi><mml:mi> on the square lattice. Physical Review B, 2008, 78, .	1.1	63
20	High-order coupled cluster method calculations for the ground- and excited-state properties of the spin-halfXXZmodel. Journal of Physics Condensed Matter, 2000, 12, 6887-6902.	0.7	62
21	Frustrated Heisenberg antiferromagnet on the honeycomb lattice: A candidate for deconfined quantum criticality. Physical Review B, 2011, 84, .	1.1	59
22	Independent-cluster parametrizations of wave functions in model field theories. I. Introduction to their holomorphic representations. Annals of Physics, 1991, 207, 171-217.	1.0	57
23	Many-body correlations in quantum antiferromagnets: A microscopic coupled-cluster approach. Physical Review B, 1991, 43, 13782-13785.	1.1	57
24	Ground-state energy of a dilute fermi gas. Annals of Physics, 1973, 77, 106-138.	1.0	53
25	A study of the Galitskii-Feynman T matrix for liquid 3He. Journal of Low Temperature Physics, 1976, 23, 393-410.	0.6	51
26	Variational and coupled-cluster calculations of the spectra of anharmonic oscillators. Physical Review A, 1988, 38, 2211-2232.	1.0	51
27	The quantumJ1â€“J1â€²â€“J2spin-1/2 Heisenberg model: influence of the interchain coupling on the ground-state magnetic ordering in two dimensions. Journal of Physics Condensed Matter, 2008, 20, 255251.	0.7	51
28	Quantum<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>s</mml:mi><mml:mo>=</mml:mo><mml:mfrac><mml:mn on Archimedean lattices: The route from semiclassical magnetic order to nonmagnetic quantum states. Physical Review B, 2014, 89, .	1.1	49
29	Constrained variational calculations for finite nuclei. Journal of Physics G: Nuclear Physics, 1978, 4, 1709-1723.	0.8	48
30	Coupled cluster treatment of an interpolating triangle-kagomÃ©antiferromagnet. Physical Review B, 2001, 63, .	1.1	48
31	Exact isolated solutions for the two-photon Rabi Hamiltonian. Journal of Physics A, 2002, 35, 8231-8241.	1.6	48
32	The frustrated Heisenberg antiferromagnet on the honeycomb lattice:J₁â€“J₂model. Journal of Physics Condensed Matter, 2012, 24, 236002.	0.7	47
33	Translationally invariant coupled cluster theory for simple finite systems. Physical Review C, 1990, 42, 1341-1360.	1.1	46
34	Model nuclear matter calculations with a new fermion lowest order constrained variational method. Nuclear Physics A, 1976, 274, 108-124.	0.6	44
35	Low-energy He-He interactions with phenomenological potentials. Journal of Low Temperature Physics, 1977, 26, 669-690.	0.6	44
36	Composite pairs and effective two-body scattering in a many-body medium. Physical Review A, 1976, 13, 1570-1580.	1.0	43

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37	Correlations in extended systems: A microscopic multilocal method for describing both local and global properties. International Journal of Quantum Chemistry, 1990, 38, 197-211.	1.0	41
38	Coherent mixed states and a generalised P representation. Journal of Physics A, 1987, 20, 3743-3769.	1.6	40
39	Coupled Cluster Method Calculations of Quantum Magnets with Spins of General Spin Quantum Number. Journal of Statistical Physics, 2002, 108, 401-428.	0.5	39
40	The coupled cluster method. , 1998, , 1-70.		38
41	The coupled cluster method applied to quantum magnetism. Lecture Notes in Physics, 2004, , 307-348.	0.3	38
42	Constrained Jastrow calculations. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1975, 59, 1-3.	1.5	36
43	Generalised coherent states and Bogoliubov transformations. Journal of Physics A, 1986, 19, 2525-2536.	1.6	36
44	Bogoliubov transformations and exact isolated solutions for simple nonadiabatic Hamiltonians. Journal of Mathematical Physics, 2002, 43, 3916-3926.	0.5	35
45	Frustrated Heisenberg antiferromagnet on the checkerboard lattice:<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>J</mml:mi><mml:mn>1</mml:mn></mml:msub></mml:math>-<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>J</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math>model. Physical Review B, 2012, 85, .	1.1	35
46	Translationally invariant treatment of pair correlations in nuclei: I. Spin and isospin dependent correlations. Nuclear Physics A, 1996, 609, 218-236.	0.6	34
47	Correlations in Abelian lattice gauge field models: A microscopic coupled-cluster treatment. Physical Review D, 1993, 48, 887-901.	1.6	32
48	Frustrated Heisenberg antiferromagnet on the honeycomb lattice: Spin gap and low-energy parameters. Physical Review B, 2015, 92, .	1.1	32
49	Coupled-cluster calculations of quantumXXZmodels with a general spin. Physical Review B, 1992, 46, 880-888.	1.1	30
50	The quantum J 1 â€“J 1 â€²â€“J 2 spin-1 Heisenberg model: Influence of the interchain coupling on the ground-state magnetic ordering in 2D. Europhysics Letters, 2008, 83, 47004.	0.7	30
51	Thermal coherent states in the Bargmann representation. Physical Review A, 1994, 50, 3331-3339.	1.0	29
52	Magnetic order on a frustrated spin-<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mstyle scriptlevel="1"><mml:mfrac bevelled="false"><mml:mn>1</mml:mn><mml:mn>2</mml:mn></mml:mfrac></mml:mstyle></mml:mrow></mml:math>Heisenberg antiferromagnet on the Union Jack lattice. Physical Review B, 2010, 82, .	1.1	29
53	General two-mode squeezed states. European Physical Journal B, 1988, 71, 527-529.	0.6	28
54	Nonuniqueness in the energy spectra of anharmonic oscillators using the coupled-cluster method. Physical Review A, 1989, 40, 3484-3497.	1.0	28

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55	High-order coupled-cluster method for general spin-lattice problems: An illustration via the anisotropic Heisenberg model. Physical Review B, 2001, 64, .	1.1	28
56	Frustrated spin-<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mfrac><mml:mn>1</mml:mn><mml:mn>2</mml:mn></mml:mfrac></mml xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>J</mml:mi><mml:mn>1</mml:mn></mml:msub></mml:m xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>J</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:m xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>X</mml:mi><mml:mi>Y</mml:mi></mml:. Physical Review B, 2014, 89, .	1.1	28
57	General approach to quantum mechanics as a statistical theory. Physical Review A, 2019, 99, .	1.0	28
58	Ground-state phases of the frustrated spin-<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mfrac><mml:mn>1</mml:mn><mml:mn>2</mml:mn></mml:mfrac></mml:math><mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>J</mml:mi><mml:mn>1</mml:mn></mml:msub></mml:math>â€“<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>J</mml:mi><mml:mn>	1.1	27
59	Application of the coupled cluster method to the Jaynes-Cummings model without the rotating-wave approximation. Physical Review A, 1996, 54, R4657-R4660.	1.0	26
60	Spin-<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mfrac><mml:mn>1</mml:mn><mml:mn>2</mml:mn></mml:mfrac></mml:math>Heisenberg antiferromagnet on an anisotropic kagome lattice. Physical Review B, 2012, 86, .	1.1	26
61	Valence-bond crystalline order in thes= 1/2J1â€“J2model on the honeycomb lattice. Journal of Physics Condensed Matter, 2013, 25, 306002.	0.7	26
62	Singularities in the Galitskii-FeynmanTmatrix. Physical Review A, 1974, 10, 2423-2429.	1.0	25
63	Complete phase diagram of the spin-<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mfrac><mml:mn>1</mml:mn><mml:mn>2</mml:mn></mml:mfrac></mml:math><mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>J</mml:mi><mml:mn>1</mml:mn></mml:msub></mml:math>-<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>J</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math>-<	1.1	25
64	Time evolution of the Rabi Hamiltonian from the unexcited vacuum. Journal of Physics A, 2001, 34, 5635-5651.	1.6	24
65	High-Order Coupled Cluster Method (CCM) Calculations for Quantum Magnets with Valence-Bond Ground States. Journal of Statistical Physics, 2009, 135, 175-198.	0.5	24
66	Toward a Many-Body Treatment of Hamiltonian Lattice SU(N) Gauge Theory. Annals of Physics, 2000, 284, 215-262.	1.0	23
67	Critical behavior of a charged Bose gas. Journal of Low Temperature Physics, 1974, 15, 601-635.	0.6	22
68	Extended coupled-cluster method. III. Zero-temperature hydrodynamics of a condensed Bose fluid. Physical Review A, 1988, 37, 1065-1086.	1.0	22
69	Holomorphic representation of a set of supercoherent canonical coordinates for a quantum oscillator withx2Kanharmonicity. Physical Review Letters, 1990, 64, 111-114.	2.9	22
70	A new coherent paired state with possible applications to fluctuation-dissipation phenomena. Journal of Physics A, 1987, 20, 3727-3741.	1.6	21
71	Paths to optimization in the multistate Rayleigh-Ritz variational method: Applications to the double-well quantum anharmonic oscillator. Physical Review A, 1989, 40, 6154-6168.	1.0	21
72	Independent-Cluster Parametrizations of Wave Functions in Model Field Theories. Annals of Physics, 1993, 227, 275-333.	1.0	21

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73	Translationally invariant treatment of pair correlations in nuclei II. Tensor correlations. Nuclear Physics A, 1998, 643, 243-258.	0.6	21
74	Phase diagram of a frustrated spin-12J1-J2XXZmodel on the honeycomb lattice. Physical Review B, 2014, 89, .	1.1	20
75	On the ground state of an impurity in a dilute fermi gas. Annals of Physics, 1973, 78, 391-420.	1.0	19
76	Magnetic order in a spin-12interpolating kagome/square Heisenberg antiferromagnet. Physical Review B, 2010, 82, .	1.1	19
77	Frustrated honeycomb-bilayer Heisenberg antiferromagnet: The spin- 12 J1â^'J2â^'J1âŠ¥ model. Physical Review B, 2017, 95, .	1.1	19
78	Interplay between lattice topology, frustration, and spin quantum number in quantum antiferromagnets on Archimedean lattices. Physical Review B, 2018, 98, .	1.1	19
79	A variational calculation of nuclear matter binding with the Reid potential. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1976, 61, 147-150.	1.5	18
80	A constrained variational calculation for beta-stable matter. Journal of Physics G: Nuclear Physics, 1978, 4, L123-L126.	0.8	18
81	Independent-Cluster Parametrizations of Wave Functions in Model Field Theories. Annals of Physics, 1993, 227, 334-380.	1.0	18
82	The effect of anisotropy on the ground-state magnetic ordering of the spin-1 quantumJ1XXZâ€“J2XXZmodel on the square lattice. Journal of Physics Condensed Matter, 2008, 20, 415213.	0.7	18
83	Unsaturated spin- <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mfrac><mml:mn>1</mml:mn><mml:mn>2</mml:mn></mml:mfrac></mml Heisenberg magnet on a square-lattice bilayer: High-order study of the quantum critical behavior of the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>J</mml:mi><mml:mn>1</mml:mn></mml:msub><mml: Physical Review B, 2019, 100, .	1.1	18
84	Two-Body Scattering with Singular Potentials. Physical Review C, 1973, 7, 479-488.	1.1	17
85	The spin-one Heisenberg-biquadratic quantum spin chain treated by the coupled-cluster method. Journal of Physics Condensed Matter, 1993, 5, 9169-9184.	0.7	17
86	Coupled cluster analysis of the U(1) lattice gauge model using a correlated "mean-field" reference state. Physical Review D, 1996, 53, 2610-2618.	1.6	17
87	Ground-state phases of the spin-<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mn>1</mml:mn><mml:mrow><mml:msub><mml:mi>J</mml:mi><mml:mi antiferromagnet on the honeycomb lattice. Physical Review B, 2016, 93, .	1.1	17
88	Perturbation theory without unperturbed solutions. Physical Review A, 1989, 39, 5336-5349.	1.0	16
89	Extended coupled-cluster method. IV. An excitation energy functional and applications to the Lipkin model. Physical Review A, 1989, 40, 4256-4276.	1.0	16
90	Dirac's contour representation in thermofield dynamics. Physical Review A, 1996, 53, R1205-R1208.	1.0	16

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91	A Coupled-Cluster Formulation of Hamiltonian Lattice Field Theory: The Nonlinear Sigma Model. Annals of Physics, 1998, 267, 97-133.	1.0	16
92	FRUSTRATED QUANTUM ANTIFERROMAGNETS: APPLICATION OF HIGH-ORDER COUPLED CLUSTER METHOD. International Journal of Modern Physics B, 2007, 21, 2273-2288.	1.0	16
93	Non-Hermitian coupled cluster method for non-stationary systems and its interaction-picture reinterpretation. European Physical Journal Plus, 2020, 135, 1.	1.2	16
94	Bound-state pairing singularities in the 3He Galitskii-Feynman T-matrix: Temperature dependence. Journal of Low Temperature Physics, 1975, 20, 573-584.	0.6	15
95	On large-scale shell model calculations in4He. Journal of Physics G: Nuclear and Particle Physics, 1990, 16, L61-L66.	1.4	15
96	ODD AND EVEN BEHAVIOR WITH LSUBm APPROXIMATION LEVEL IN HIGH-ORDER COUPLED CLUSTER METHOD (CCM) CALCULATIONS. International Journal of Modern Physics B, 2008, 22, 3369-3379.	1.0	15
97	Constrained variational results for the new Bethe homework problem. Journal of Physics G: Nuclear Physics, 1978, 4, L45-L49.	0.8	14
98	A coupled-cluster study of the ground-state energy and properties of an anisotropic quantum spin lattice model exhibiting antiferromagnetism in various phases. Theoretica Chimica Acta, 1991, 80, 181-205.	0.9	14
99	Displaced negative-binomial mixed states: Generalized thermo-field-dynamics. Physical Review A, 1995, 51, 2353-2360.	1.0	14
100	Ab initiosimulation of the nodal surfaces of Heisenberg antiferromagnets. Physical Review B, 1999, 59, 1000-1007.	1.1	14
101	Magnetic order in spin-1 and spin- $$rac{3} {2}$$ interpolating square-triangle Heisenberg antiferromagnets. European Physical Journal B, 2012, 85, 1.	0.6	14
102	Extended Coupled Cluster Method: Quantum Many-Body Theory Made Classical. , 1987, , 357-372.		14
103	Dynamic Variational Principles and Extended Coupled Cluster Techniques. Lecture Notes in Quantum Chemistry II, 1989, , 79-100.	0.3	14
104	An energy-replicating class of non-normalisable supercoherent states. Physics Letters, Section A: General, Atomic and Solid State Physics, 1988, 132, 440-444.	0.9	13
105	Phase-admixed states: Coherence and incoherence. Physical Review A, 1989, 39, 214-220.	1.0	13
106	Diffusion Monte Carlo determination of the binding energy of the4He nucleus for model Wigner potentials. Journal of Physics G: Nuclear and Particle Physics, 1992, 18, L21-L27.	1.4	13
107	A frustrated quantum spin-s model on the Union Jack lattice with spins s > 1/2. European Physical Journal B, 2011, 81, 37-48.	0.6	13
108	Extended coupled-cluster treatment of correlations in quantum magnets. Physical Review B, 1999, 60, 4030-4042.	1.1	12

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109	Coupled-cluster method: A lattice-path-based subsystem approximation scheme for quantum lattice models. Physical Review A, 2011, 83, .	1.0	12
110	The binding energy of a Î›-particle in nuclear matter: A comparison of two formulations. Nuclear Physics B, 1970, 17, 573-598.	0.9	11
111	A constrained variational calculation of the symmetry coefficient. Journal of Physics G: Nuclear Physics, 1978, 4, L81-L86.	0.8	11
112	Translationally invariant clusters in coordinate space: an Euler-Lagrange approach. Journal of Physics G: Nuclear and Particle Physics, 1992, 18, 1157-1176.	1.4	11
113	Variational results for the Rabi Hamiltonian. Physics Letters, Section A: General, Atomic and Solid State Physics, 1999, 254, 215-224.	0.9	11
114	The ground-state magnetic ordering of the spin-1/2 frustratedJ1-J2XXZ model on the square lattice. Journal of Physics: Conference Series, 2009, 145, 012049.	0.3	11
115	Frustrated spin-12Heisenberg antiferromagnet on a chevron-square lattice. Physical Review B, 2013, 88, .	1.1	11
116	Spin-gap study of the $ext{spin-}rac{1}{2} ext{J}_{1}ext{-J}_{2}$ model on the triangular lattice. Europhysics Letters, 2015, 112, 67002.	0.7	11
117	The saturating effect of N*(1234) on the binding of light nuclei. Journal of Physics G: Nuclear Physics, 1978, 4, L127-L133.	0.8	10
118	Independent clusters in coordinate space: an efficient alternative to shell-model expansion. Journal of Physics G: Nuclear and Particle Physics, 1991, 17, 857-864.	1.4	10
119	A systematic localized approximation scheme for the coupled-cluster treatment of quantum spin systems. Journal of Physics Condensed Matter, 1992, 4, 5783-5794.	0.7	10
120	The coupled-cluster method applied to theXXZmodel using a planar model state. Journal of Physics Condensed Matter, 1996, 8, 11153-11165.	0.7	10
121	Quantum systems at negative temperatures: a holomorphic approach based on coherent states. Journal of Physics A, 1998, 31, 8563-8575.	1.6	10
122	Spin-<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mfrac><mml:mn>1</mml:mn><mml:mn>2</mml:mn></mml:mfrac></mml xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>J</mml:mi><mml:mn>1</mml:mn></mml:msub></mml:m xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>J</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:m model on a cross-striped square lattice. Physical Review B, 2013, 88, .	1.1	10
123	Large-s expansions for the low-energy parameters of the honeycomb-lattice Heisenberg antiferromagnet with spin quantum number s. Journal of Magnetism and Magnetic Materials, 2016, 407, 348-357.	1.0	9
124	High-order study of the quantum critical behavior of a frustrated spin- <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mfrac><mml:mn>1</mml:mn><mml:mn>2</mml:mn></mml:mfrac></mml antiferromagnet on a stacked honeycomb bilayer. Physical Review B, 2017, 96, .	1.1	9
125	Quantum tunnelling in the deformed region of the LMG model. Journal of Physics G: Nuclear Physics, 1985, 11, 95-101.	0.8	8
126	A holomorphic representation approach to the regularization of model field theories in coupled cluster form. Theoretica Chimica Acta, 1991, 80, 289-305.	0.9	8

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127	Quantum phase transition in square- and triangular-lattice spin-Â½ antiferromagnets. Physical Review B, 1996, 53, 9168-9171.	1.1	8
128	The spin-half XXZ antiferromagnet on the square lattice revisited: A high-order coupled cluster treatment. Journal of Magnetism and Magnetic Materials, 2017, 428, 178-188.	1.0	8
129	The equation of state for a model Fermi fluid. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1977, 66, 25-28.	1.5	7
130	Pairing correlations: I. The ground-state coupled-cluster formalism as a unifying approach. Few-Body Systems, 1988, 4, 161-177.	0.7	7
131	Two-component Fermi systems: II. Superfluid coupled cluster theory. European Physical Journal B, 1988, 73, 363-375.	0.6	7
132	A microscopic coupled-cluster treatment of electronic correlations in Hubbard models. International Journal of Quantum Chemistry, 1995, 55, 181-186.	1.0	7
133	Sign rules for anisotropic quantum spin systems. Physical Review B, 2000, 61, 6775-6779.	1.1	7
134	Highly frustrated spin-lattice models of magnetism and their quantum phase transitions: A microscopic treatment via the coupled cluster method. , 2014, , .		7
135	Frustrated Heisenberg antiferromagnet on the honeycomb lattice with spin quantum numbersâ‰¥ 1. Journal of Physics: Conference Series, 2016, 702, 012001.	0.3	7
136	An application of the coupled-cluster method to the S= 1/2 triangular-lattice antiferromagnet. Journal of Physics Condensed Matter, 1995, 7, 9021-9048.	0.7	6
137	The translationally-invariant coupled cluster method in coordinate space. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2000, 480, 61-64.	1.5	6
138	A many-body treatment of Hamiltonian lattice gauge theory. Nuclear Physics A, 2000, 663-664, 983c-986c.	0.6	6
139	Correlated Basis Functions and all that. , 1988, , 385-393.		6
140	THE COUPLED-CLUSTER APPROACH TO QUANTUM MANY-BODY PROBLEM IN A THREE-HILBERT-SPACE REINTERPRETATION. Acta Polytechnica, 2014, 54, 85-92.	0.3	6
141	Two-component Fermi systems. I. Fluid coupled cluster theory. Journal of Physics A, 1987, 20, 4203-4236.	1.6	5
142	Pairing correlations: II. Exact model ground-state results for generalised ladders. Few-Body Systems, 1988, 4, 179-209.	0.7	5
143	Translationally invariant clusters in coordinate space: higher-order clusters and the Gaussian expansion basis. Journal of Physics G: Nuclear and Particle Physics, 1993, 19, 1163-1178.	1.4	5
144	A microscopic study of the quantum critical behavior of the spin-1/2 anisotropic Heisenberg models. International Journal of Quantum Chemistry, 1996, 57, 919-927.	1.0	5

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145	Accurate calculations of U(1) lattice gauge theory. Nuclear Physics, Section B, Proceedings Supplements, 1997, 53, 834-837.	0.5	5
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