Leszek Meissner

List of Publications by Year
in descending order

44 papers	1,838 citations	331670 21 h-index	265206 42 g-index
44 all docs	44 docs citations	44 times ranked	449 citing authors

#	Article	IF	Citations
1	A coupled-cluster method for quasidegenerate states. International Journal of Quantum Chemistry, 1988, 34, 535-557.	2.0	163
2	Fock-space coupled-cluster method in the intermediate Hamiltonian formulation: Model with singles and doubles. Journal of Chemical Physics, 1998, 108, 9227-9235.	3.0	153
3	A general modelâ€space coupledâ€cluster method using a Hilbertâ€space approach. Journal of Chemical Physics, 1990, 92, 561-567.	3.0	144
4	A multireference coupledâ€cluster method for special classes of incomplete model spaces. Journal of Chemical Physics, 1989, 91, 6187-6194.	3.0	142
5	Davidsonâ€type corrections for quasidegenerate states. International Journal of Quantum Chemistry, 1985, 28, 931-942.	2.0	128
6	A Hilbert space multi-reference coupled-cluster study of the H4 model system. Theoretica Chimica Acta, 1991, 80, 335-348.	0.8	124
7	Transformation of the Hamiltonian in excitation energy calculations: Comparison between Fockâ€space multireference coupledâ€cluster and equationâ€ofâ€motion coupledâ€cluster methods. Journal of Chemical Physics, 1991, 94, 6670-6676.	3.0	103
8	The multireference coupledâ€cluster method in Hilbert space: An incomplete model space application to the LiH molecule. Journal of Chemical Physics, 1991, 95, 4311-4316.	3.0	99
9	A dressing for the matrix elements of the singles and doubles equationâ€ofâ€motion coupledâ€cluster method that recovers additive separability of excitation energies. Journal of Chemical Physics, 1995, 102, 7490-7498.	3.0	96
10	Size-consistency corrections for configuration interaction calculations. Chemical Physics Letters, 1988, 146, 204-210.	2.6	94
11	Molecular applications of the intermediate Hamiltonian Fock-space coupled-cluster method for calculation of excitation energies. Journal of Chemical Physics, 2005, 122, 224110.	3.0	78
12	Effective and intermediate Hamiltonians obtained by similarity transformations. Journal of Chemical Physics, 1995, 102, 9604-9614.	3.0	72
13	On multiple solutions of the Fock-space coupled-cluster method. Chemical Physics Letters, 1996, 255, 244-250.	2.6	39
14	A Fockâ€space coupledâ€cluster method fully utilizing valence universal strategy. Journal of Chemical Physics, 1995, 103, 8014-8021.	3.0	34
15	A coupled-cluster correction to the multi-reference configuration interaction method. Chemical Physics Letters, 1999, 300, 53-60.	2.6	33
16	Electron propagator theory with the ground state correlated by the coupled-cluster method. International Journal of Quantum Chemistry, 1993, 48, 67-80.	2.0	31
17	The general model space effective Hamiltonian in orderâ€forâ€order expansion. Journal of Chemical Physics, 1989, 91, 4800-4808.	3.0	27
18	A new approach to the problem of noniterative corrections within the coupled-cluster framework. Journal of Chemical Physics, 2001, 115, 50-61.	3.0	27

#	Article	IF	Citations
19	Application of the intermediate Hamiltonian valence-universal coupled-cluster method to the magnesium atom. Journal of Chemical Physics, 2002, 116, 7362-7371.	3.0	26
20	The Fock-Space Coupled-Cluster Method in the Calculation of Excited State Properties. Collection of Czechoslovak Chemical Communications, 2005, 70, 811-825.	1.0	24
21	A posteriori corrections to the configuration interaction method with singles and doubles. Chemical Physics Letters, 1996, 263, 351-359.	2.6	22
22	The coupled-cluster correction to multi-reference configuration interaction method: application to excited states. Chemical Physics Letters, 2000, 316, 501-509.	2.6	20
23	Multiple solutions of the single-reference coupled-cluster method. Chemical Physics Letters, 1993, 212, 177-184.	2.6	18
24	Application of the intermediate Hamiltonian valence-universal coupled-cluster method to atomic systems with one valence electron. Chemical Physics Letters, 2003, 381, 441-450.	2.6	17
25	Approximate evaluation of the effect of three-body cluster operators in the valence-universal coupled-cluster excitation energy calculations for Be and Mg. Journal of Physics B: Atomic, Molecular and Optical Physics, 2004, 37, 2387-2400.	1.5	15
26	Breaking N2 triple bond: the coupled-cluster corrected multi-reference configuration interaction description. Chemical Physics Letters, 2004, 397, 34-39.	2.6	14
27	The coupled-cluster corrections to multi-reference configuration interaction method: the HF and F2bond breaking description. Molecular Physics, 2005, 103, 2173-2182.	1.7	12
28	Various formulations of the Fock-space coupled-cluster method: Advantages and disadvantages in their practical implementations. Chemical Physics, 2012, 401, 136-145.	1.9	12
29	Intermediate Hamiltonian Formulations of the Fock-Space Coupled-Cluster Method: Details, Comparisons, Examples. Challenges and Advances in Computational Chemistry and Physics, 2010, , 395-428.	0.6	11
30	On perturbative corrections to excitation energies from configuration interaction singles. Molecular Physics, 2006, 104, 2073-2083.	1.7	9
31	The intermediate Hamiltonian Fock-space coupled-cluster method with approximate evaluation of the three-body effects. Journal of Chemical Physics, 2019, 151, 184102.	3.0	9
32	Excitation energies with multireference manyâ€body perturbation theory. Journal of Chemical Physics, 1990, 93, 1847-1856.	3.0	7
33	Size-extensivity in multireference many-body perturbation theories: A direct comparison between single-reference and multireference perturbation theories in the nondegenerate case. International Journal of Quantum Chemistry, 1989, 36, 705-726.	2.0	6
34	Effective Hamiltonian and Intermediate Hamiltonian Formulations of the Fock-Space Coupled-Cluster Method. Collection of Czechoslovak Chemical Communications, 2003, 68, 105-138.	1.0	6
35	Extension of the Fock-space coupled-cluster method with singles and doubles to the three-valence sector. Journal of Chemical Physics, 2020, 153, 114115.	3.0	5
36	Making More Extensive Use of the Coupled-cluster Wave Function: from the Standard Energy Expression to the Energy Expectation Value. Theoretical Chemistry Accounts, 2006, 116, 440-449.	1.4	4

#	Article	IF	Citations
37	Coupledâ€cluster corrected MRâ€CISD method with noniterative evaluation of connected triples. International Journal of Quantum Chemistry, 2008, 108, 2199-2210.	2.0	4
38	Multi-reference many-body perturbation theory and coupled cluster developments. Molecular Physics, 2010, 108, 2961-2974.	1.7	3
39	Dependence of state-universal coupled-cluster energies on the model-space-defining orbitals for states of varying quasidegeneracy. Computational and Theoretical Chemistry, 2001, 547, 55-68.	1.5	2
40	Different approaches to the coupled-cluster method and related ways of solving the coupled-cluster equations. Molecular Physics, 2017, 115, 2629-2636.	1.7	2
41	A matrix coupled-cluster correction to the multi-reference configuration interaction method. Computational and Theoretical Chemistry, 2006, 768, 63-69.	1.5	1
42	A posteriori corrections to the configuration interaction method: a single-reference and multi-reference study. Molecular Physics, 2015, 113, 3014-3022.	1.7	1
43	A new intermediate Hamiltonian Fock-space coupled-cluster formalism for the three-valence sector. Molecular Physics, 0, , .	1.7	1
44	Size-Extensivity Corrections in Single- and Multireference Configuration Interaction Calculations. Advances in Quantum Chemistry, 2016, 73, 145-160.	0.8	0