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	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
2	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
3	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
4	Size-Extensivity Corrections in Single- and Multireference Configuration Interaction Calculations. Advances in Quantum Chemistry, 2016, 73, 145-160.	0.8	0
5	A posteriori corrections to the configuration interaction method: a single-reference and multi-reference study. Molecular Physics, 2015, 113, 3014-3022.	1.7	1
6	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
7	Multi-reference many-body perturbation theory and coupled cluster developments. Molecular Physics, 2010, 108, 2961-2974.	1.7	3
8	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
9	Coupledâ€cluster corrected MRâ€CISD method with noniterative evaluation of connected triples. International Journal of Quantum Chemistry, 2008, 108, 2199-2210.	2.0	4
10	A matrix coupled-cluster correction to the multi-reference configuration interaction method. Computational and Theoretical Chemistry, 2006, 768, 63-69.	1.5	1
11	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
12	On perturbative corrections to excitation energies from configuration interaction singles. Molecular Physics, 2006, 104, 2073-2083.	1.7	9
13	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
14	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
15	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
16	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
17	Breaking N2 triple bond: the coupled-cluster corrected multi-reference configuration interaction description. Chemical Physics Letters, 2004, 397, 34-39.	2.6	14
18	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

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19	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
20	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
21	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
22	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
23	The coupled-cluster correction to multi-reference configuration interaction method: application to excited states. Chemical Physics Letters, 2000, 316, 501-509.	2.6	20
24	A coupled-cluster correction to the multi-reference configuration interaction method. Chemical Physics Letters, 1999, 300, 53-60.	2.6	33
25	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
26	On multiple solutions of the Fock-space coupled-cluster method. Chemical Physics Letters, 1996, 255, 244-250.	2.6	39
27	A posteriori corrections to the configuration interaction method with singles and doubles. Chemical Physics Letters, 1996, 263, 351-359.	2.6	22
28	A Fockâ€space coupledâ€cluster method fully utilizing valence universal strategy. Journal of Chemical Physics, 1995, 103, 8014-8021.	3.0	34
29	Effective and intermediate Hamiltonians obtained by similarity transformations. Journal of Chemical Physics, 1995, 102, 9604-9614.	3.0	72
30	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
31	Multiple solutions of the single-reference coupled-cluster method. Chemical Physics Letters, 1993, 212, 177-184.	2.6	18
32	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
33	A Hilbert space multi-reference coupled-cluster study of the H4 model system. Theoretica Chimica Acta, 1991, 80, 335-348.	0.8	124
34	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
35	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
36	A general modelâ€space coupledâ€cluster method using a Hilbertâ€space approach. Journal of Chemical Physics, 1990, 92, 561-567.	3.0	144

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37	Excitation energies with multireference manyâ€body perturbation theory. Journal of Chemical Physics, 1990, 93, 1847-1856.	3.0	7
38	A multireference coupledâ€cluster method for special classes of incomplete model spaces. Journal of Chemical Physics, 1989, 91, 6187-6194.	3.0	142
39	The general model space effective Hamiltonian in orderâ€forâ€order expansion. Journal of Chemical Physics, 1989, 91, 4800-4808.	3.0	27
40	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
41	Size-consistency corrections for configuration interaction calculations. Chemical Physics Letters, 1988, 146, 204-210.	2.6	94
42	A coupled-cluster method for quasidegenerate states. International Journal of Quantum Chemistry, 1988, 34, 535-557.	2.0	163
43	Davidsonâ€type corrections for quasidegenerate states. International Journal of Quantum Chemistry, 1985, 28, 931-942.	2.0	128
44	A new intermediate Hamiltonian Fock-space coupled-cluster formalism for the three-valence sector. Molecular Physics, 0, , .	1.7	1