Thomas M Henderson

List of Publications by Year
in descending order

58	4,616	159585 30	128289 60
papers	citations	h-index	g-index

61	61	61	3748
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Thermal coupled cluster theory for SU(2) systems. Physical Review B, 2022, 105, .	3.2	5
2	A power series approximation in symmetry projected coupled cluster theory. Journal of Chemical Physics, 2022, 156, 104105.	3.0	3
3	Coupled Cluster and Perturbation Theories Based on a Cluster Mean-Field Reference Applied to Strongly Correlated Spin Systems. Journal of Chemical Theory and Computation, 2022, 18, 4293-4303.	5.3	8
4	Exploring non-linear correlators on AGP. Journal of Chemical Physics, 2021, 154, 074113.	3.0	26
5	Construction of linearly independent non-orthogonal AGP states. Journal of Chemical Physics, 2021, 154, 114112.	3.0	15
6	Assessing combinations of singlet-paired coupled cluster and density functional theory for treating electron correlation in closed and open shells. Molecular Physics, 2020, 118, 1615144.	1.7	1
7	Wave function methods for canonical ensemble thermal averages in correlated many-fermion systems. Journal of Chemical Physics, 2020, 153, 124115.	3.0	15
8	Geminal Replacement Models Based on AGP. Journal of Chemical Theory and Computation, 2020, 16, 6358-6367.	5.3	22
9	Correlating the antisymmetrized geminal power wave function. Journal of Chemical Physics, 2020, 153, 084111.	3.0	28
10	Geminal-based configuration interaction. Journal of Chemical Physics, 2019, 151, .	3.0	31
11	Thermofield Theory for Finite-Temperature Coupled Cluster. Journal of Chemical Theory and Computation, 2019, 15, 6127-6136.	5.3	30
12	Thermofield theory for finite-temperature quantum chemistry. Journal of Chemical Physics, 2019, 150, 154109.	3.0	30
13	Polynomial-product states: A symmetry-projection-based factorization of the full coupled cluster wavefunction in terms of polynomials of double excitations. Journal of Chemical Physics, 2019, 150, 144108.	3.0	9
14	Efficient evaluation of AGP reduced density matrices. Journal of Chemical Physics, 2019, 151, 184103.	3.0	26
15	Hartreeâ€“Fock symmetry breaking around conical intersections. Journal of Chemical Physics, 2018, 148, 024109.	3.0	11
16	Influence of broken-pair excitations on the exact pair wavefunction. Molecular Physics, 2018, 116, 186-193.	1.7	8
17	Magnetic Structure of Density Matrices. Journal of Chemical Theory and Computation, 2018, 14, 649-659.	5.3	12
18	Projected coupled cluster theory: Optimization of cluster amplitudes in the presence of symmetry projection. Journal of Chemical Physics, 2018, 149, 164108.	3.0	18

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19	Merging symmetry projection methods with coupled cluster theory: Lessons from the Lipkin model Hamiltonian. Journal of Chemical Physics, 2017, 146, 054110.	3.0	30
20	Understanding band gaps of solids in generalized Kohnâ€“Sham theory. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 2801-2806.	7.1	423
21	Projected Hartree-Fock theory as a polynomial of particle-hole excitations and its combination with variational coupled cluster theory. Journal of Chemical Physics, 2017, 146, 184105.	3.0	22
22	Spin-projected generalized Hartree-Fock method as a polynomial of particle-hole excitations. Physical Review A, 2017, 96, .	2.5	11
23	Projected coupled cluster theory. Journal of Chemical Physics, 2017, 147, 064111.	3.0	56
24	Attenuated coupled cluster: a heuristic polynomial similarity transformation incorporating spin symmetry projection into traditional coupled cluster theory. Molecular Physics, 2017, 115, 2673-2683.	1.7	11
25	Tensor-structured coupled cluster theory. Journal of Chemical Physics, 2017, 147, 184113.	3.0	48
26	Recoupling the singlet- and triplet-pairing channels in single-reference coupled cluster theory. Journal of Chemical Physics, 2016, 145, 134103.	3.0	13
27	Blind test of density-functional-based methods on intermolecular interaction energies. Journal of Chemical Physics, 2016, 145, 124105.	3.0	97
28	Singlet-paired coupled cluster theory for open shells. Journal of Chemical Physics, 2016, 144, 244117.	3.0	19
29	Using full configuration interaction quantum Monte Carlo in a seniority zero space to investigate the correlation energy equivalence of pair coupled cluster doubles and doubly occupied configuration interaction. Journal of Chemical Physics, 2016, 144, 094112.	3.0	26
30	Polynomial similarity transformation theory: A smooth interpolation between coupled cluster doubles and projected BCS applied to the reduced BCS Hamiltonian. Physical Review B, 2016, 93, .	3.2	53
31	Communication: Projected Hartree Fock theory as a polynomial similarity transformation theory of single excitations. Journal of Chemical Physics, 2016, 145, .	3.0	28
32	Lie algebraic similarity transformed Hamiltonians for lattice model systems. Physical Review B, 2015, 91, .	3.2	23
33	Solutions of the Two-Dimensional Hubbard Model: Benchmarks and Results from a Wide Range of Numerical Algorithms. Physical Review X, 2015, 5, .	8.9	398
34	Can Single-Reference Coupled Cluster Theory Describe Static Correlation?. Journal of Chemical Theory and Computation, 2015, 11, 3171-3179.	5.3	103
35	Synergy between pair coupled cluster doubles and pair density functional theory. Journal of Chemical Physics, 2015, 142, 044109.	3.0	36
36	Pair extended coupled cluster doubles. Journal of Chemical Physics, 2015, 142, 214116.	3.0	53

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37	Seniority-based coupled cluster theory. Journal of Chemical Physics, 2014, 141, 244104.	3.0	110
38	Seniority zero pair coupled cluster doubles theory. Journal of Chemical Physics, 2014, 140, 214113.	3.0	147
39	Range-Separated Brueckner Coupled Cluster Doubles Theory. Physical Review Letters, 2014, 112, 133002.	7.8	37
40	Coupled cluster channels in the homogeneous electron gas. Journal of Chemical Physics, 2014, 140, 124102.	3.0	36
41	Quasiparticle coupled cluster theory for pairing interactions. Physical Review C, 2014, 89, .	2.9	88
42	Particle-particle and quasiparticle random phase approximations: Connections to coupled cluster theory. Journal of Chemical Physics, 2013, 139, 104113.	3.0	76
43	Linearized Jastrow-style fluctuations on spin-projected Hartree-Fock. Journal of Chemical Physics, 2013, 139, 234113.	3.0	14
44	Proper and improper zero energy modes in Hartree-Fock theory and their relevance for symmetry breaking and restoration. Journal of Chemical Physics, 2013, 139, 154107.	3.0	24
45	Projected Hartreeâ€“Fock theory. Journal of Chemical Physics, 2012, 136, 164109.	3.0	191
46	Seniority and orbital symmetry as tools for establishing a full configuration interaction hierarchy. Journal of Chemical Physics, 2011, 135, 044119.	3.0	121
47	Generalized Hartreeâ€“Fock Description of Molecular Dissociation. Journal of Chemical Theory and Computation, 2011, 7, 2667-2674.	5.3	64
48	Accurate treatment of solids with the HSE screened hybrid. Physica Status Solidi (B): Basic Research, 2011, 248, 767-774.	1.5	258
49	Projected quasiparticle theory for molecular electronic structure. Journal of Chemical Physics, 2011, 135, 124108.	3.0	148
50	The connection between self-interaction and static correlation: a random phase approximation perspective. Molecular Physics, 2010, 108, 2511-2517.	1.7	79
51	Locally rangeâ€separated hybrids as linear combinations of rangeâ€separated local hybrids. International Journal of Quantum Chemistry, 2009, 109, 2023-2032.	2.0	28
52	Long-Range-Corrected Hybrids Based on a New Model Exchange Hole. Journal of Chemical Theory and Computation, 2009, 5, 754-762.	5.3	72
53	Can short-range hybrids describe long-range-dependent properties?. Journal of Chemical Physics, 2009, 131, 044108.	3.0	426
54	The ground state correlation energy of the random phase approximation from a ring coupled cluster doubles approach. Journal of Chemical Physics, 2008, 129, 231101.	3.0	261

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55	Generalized gradient approximation model exchange holes for range-separated hybrids. Journal of Chemical Physics, 2008, 128, 194105.	3.0	238
56	Range Separation and Local Hybridization in Density Functional Theory. Journal of Physical Chemistry A, 2008, 112, 12530-12542.	2.5	94
57	Assessment of a Middle-Range Hybrid Functional. Journal of Chemical Theory and Computation, 2008, 4, 1254-1262.	5.3	155
58	The importance of middle-range Hartree-Fock-type exchange for hybrid density functionals. Journal of Chemical Physics, 2007, 127, 221103.	3.0	152