

Alex J W Thom

List of Publications by Citations

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45
papers

1,443
citations

17
h-index

37
g-index

53
ext. papers

1,771
ext. citations

5
avg, IF

5.11
L-index

#	Paper	IF	Citations
45	Fermion Monte Carlo without fixed nodes: a game of life, death, and annihilation in Slater determinant space. <i>Journal of Chemical Physics</i> , 2009 , 131, 054106	3.9	469
44	Breaking the carbon dimer: the challenges of multiple bond dissociation with full configuration interaction quantum Monte Carlo methods. <i>Journal of Chemical Physics</i> , 2011 , 135, 084104	3.9	120
43	Software for the frontiers of quantum chemistry: An overview of developments in the Q-Chem 5 package. <i>Journal of Chemical Physics</i> , 2021 , 155, 084801	3.9	115
42	LOBA: a localized orbital bonding analysis to calculate oxidation states, with application to a model water oxidation catalyst. <i>Physical Chemistry Chemical Physics</i> , 2009 , 11, 11297-304	3.6	81
41	Hartree-Fock solutions as a quasidiabatic basis for nonorthogonal configuration interaction. <i>Journal of Chemical Physics</i> , 2009 , 131, 124113	3.9	67
40	Locating multiple self-consistent field solutions: an approach inspired by metadynamics. <i>Physical Review Letters</i> , 2008 , 101, 193001	7.4	65
39	Stochastic coupled cluster theory. <i>Physical Review Letters</i> , 2010 , 105, 263004	7.4	64
38	Developments in stochastic coupled cluster theory: The initiator approximation and application to the uniform electron gas. <i>Journal of Chemical Physics</i> , 2016 , 144, 084108	3.9	35
37	Stochastic perturbation theory: a low-scaling approach to correlated electronic energies. <i>Physical Review Letters</i> , 2007 , 99, 143001	7.4	30
36	The HANDE-QMC Project: Open-Source Stochastic Quantum Chemistry from the Ground State Up. <i>Journal of Chemical Theory and Computation</i> , 2019 , 15, 1728-1742	6.4	29
35	Linked coupled cluster Monte Carlo. <i>Journal of Chemical Physics</i> , 2016 , 144, 044111	3.9	25
34	Stochastic coupled cluster theory: Efficient sampling of the coupled cluster expansion. <i>Journal of Chemical Physics</i> , 2017 , 147, 124105	3.9	23
33	Holomorphic Hartree-Fock Theory: An Inherently Multireference Approach. <i>Journal of Chemical Theory and Computation</i> , 2016 , 12, 167-73	6.4	21
32	A study of the dense uniform electron gas with high orders of coupled cluster. <i>Journal of Chemical Physics</i> , 2017 , 147, 194105	3.9	21
31	Open-Source Development Experiences in Scientific Software: The HANDE Quantum Monte Carlo Project. <i>Journal of Open Research Software</i> , 2015 , 3,	2.3	21
30	Holomorphic Hartree-Fock Theory and Configuration Interaction. <i>Journal of Chemical Theory and Computation</i> , 2014 , 10, 4795-800	6.4	18
29	Exciting Determinants in Quantum Monte Carlo: Loading the Dice with Fast, Low-Memory Weights. <i>Journal of Chemical Theory and Computation</i> , 2019 , 15, 127-140	6.4	17

28	Minimising biases in full configuration interaction quantum Monte Carlo. <i>Journal of Chemical Physics</i> , 2015 , 142, 104101	3.9	16
27	Holomorphic Hartree-Fock Theory: The Nature of Two-Electron Problems. <i>Journal of Chemical Theory and Computation</i> , 2018 , 14, 607-618	6.4	16
26	Preconditioning and Perturbative Estimators in Full Configuration Interaction Quantum Monte Carlo. <i>Journal of Chemical Theory and Computation</i> , 2019 , 15, 3537-3551	6.4	15
25	A combinatorial approach to the electron correlation problem. <i>Journal of Chemical Physics</i> , 2005 , 123, 204106	3.9	14
24	Diagrammatic Coupled Cluster Monte Carlo. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 925-935	6.4	13
23	General Approach for Multireference Ground and Excited States Using Nonorthogonal Configuration Interaction. <i>Journal of Chemical Theory and Computation</i> , 2019 , 15, 4851-4861	6.4	13
22	Large scale parallelization in stochastic coupled cluster. <i>Journal of Chemical Physics</i> , 2018 , 149, 204103	3.9	13
21	Modeling Electron Transfers Using Quasidiabatic Hartree-Fock States. <i>Journal of Chemical Theory and Computation</i> , 2018 , 14, 4629-4639	6.4	12
20	Using SCF metadynamics to extend density matrix embedding theory to excited states. <i>Journal of Chemical Physics</i> , 2019 , 151, 034112	3.9	12
19	An Organic-Inorganic Hybrid Exhibiting Electrical Conduction and Single-Ion Magnetism. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 2399-2406	16.4	12
18	Complex adiabatic connection: A hidden non-Hermitian path from ground to excited states. <i>Journal of Chemical Physics</i> , 2019 , 150, 041103	3.9	11
17	Reaching Full Correlation through Nonorthogonal Configuration Interaction: A Second-Order Perturbative Approach. <i>Journal of Chemical Theory and Computation</i> , 2020 , 16, 5586-5600	6.4	11
16	Understanding and improving the efficiency of full configuration interaction quantum Monte Carlo. <i>Journal of Chemical Physics</i> , 2016 , 144, 094110	3.9	10
15	Accelerating Convergence in Fock Space Quantum Monte Carlo Methods. <i>Journal of Chemical Theory and Computation</i> , 2020 , 16, 1503-1510	6.4	7
14	Multireference Stochastic Coupled Cluster. <i>Journal of Chemical Theory and Computation</i> , 2019 , 15, 6625-6635	6.4	6
13	Symmetry in Multiple Self-Consistent-Field Solutions of Transition-Metal Complexes. <i>Journal of Chemical Theory and Computation</i> , 2020 , 16, 904-930	6.4	6
12	Parity-Time Symmetry in Hartree-Fock Theory. <i>Journal of Chemical Theory and Computation</i> , 2019 , 15, 4374-4385	6.4	5
11	Periodicity of Single-Molecule Magnet Behaviour of Heterotetranuclear Lanthanide Complexes across the Lanthanide Series: A Compendium. <i>Chemistry - A European Journal</i> , 2020 , 26, 6036-6049	4.8	5

10	A stochastic approach to unitary coupled cluster. <i>Journal of Chemical Physics</i> , 2020 , 153, 214106	3.9	5
9	Electron correlation from path resummations: the double-excitation star. <i>Physical Chemistry Chemical Physics</i> , 2008 , 10, 652-7	3.6	4
8	Ionic-caged heterometallic bismuth-platinum complex exhibiting electrocatalytic CO reduction. <i>Dalton Transactions</i> , 2020 , 49, 2652-2660	4.3	3
7	An Organic-Inorganic Hybrid Exhibiting Electrical Conduction and Single-Ion Magnetism. <i>Angewandte Chemie</i> , 2020 , 132, 2420-2427	3.6	3
6	Towards a Holomorphic Density Functional Theory. <i>Journal of Chemical Theory and Computation</i> , 2020 , 16, 7400-7412	6.4	2
5	New approaches to study excited states in density functional theory: general discussion. <i>Faraday Discussions</i> , 2020 , 224, 483-508	3.6	2
4	Theory and implementation of a novel stochastic approach to coupled cluster. <i>Journal of Chemical Physics</i> , 2020 , 153, 144117	3.9	2
3	Insight into the GdPt Bond: Slow Magnetic Relaxation of a Heterometallic GdPt Complex. <i>Bulletin of the Chemical Society of Japan</i> ,	5.1	1
2	Field-programmable gate arrays and quantum Monte Carlo: Power efficient coprocessing for scalable high-performance computing. <i>International Journal of Quantum Chemistry</i> , 2019 , 119, e25853	2.1	0
1	Making the most of data: Quantum Monte Carlo postanalysis revisited.. <i>Physical Review E</i> , 2022 , 105, 045313	2.4	