

Alex J W Thom

List of Publications by Year in descending order

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47
papers

2,173
citations

430442

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223531

46
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53
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docs citations

53
times ranked

1493
citing authors

#	ARTICLE	IF	CITATIONS
1	Localized Spin Rotations: A Size-Consistent Approach to Nonorthogonal Configuration Interaction. <i>Journal of Chemical Theory and Computation</i> , 2022, 18, 710-722.	2.3	3
2	Insight into the Gd–Pt Bond: Slow Magnetic Relaxation of a Heterometallic Gd–Pt Complex. <i>Bulletin of the Chemical Society of Japan</i> , 2022, 95, 513-521.	2.0	3
3	Making the most of data: Quantum Monte Carlo postanalysis revisited. <i>Physical Review E</i> , 2022, 105, 045313.	0.8	1
4	Reducing unitary coupled cluster circuit depth by classical stochastic amplitude prescreening. <i>Physical Review Research</i> , 2022, 4, .	1.3	4
5	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.	1.2	518
6	Symmetry in Multiple Self-Consistent-Field Solutions of Transition-Metal Complexes. <i>Journal of Chemical Theory and Computation</i> , 2020, 16, 904-930.	2.3	11
7	An Organic–Inorganic Hybrid Exhibiting Electrical Conduction and Single-Ion Magnetism. <i>Angewandte Chemie</i> , 2020, 132, 2420-2427.	1.6	5
8	An Organic–Inorganic Hybrid Exhibiting Electrical Conduction and Single-Ion Magnetism. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 2399-2406.	7.2	19
9	Towards a Holomorphic Density Functional Theory. <i>Journal of Chemical Theory and Computation</i> , 2020, 16, 7400-7412.	2.3	5
10	New approaches to study excited states in density functional theory: general discussion. <i>Faraday Discussions</i> , 2020, 224, 483-508.	1.6	2
11	Reaching Full Correlation through Nonorthogonal Configuration Interaction: A Second-Order Perturbative Approach. <i>Journal of Chemical Theory and Computation</i> , 2020, 16, 5586-5600.	2.3	18
12	Theory and implementation of a novel stochastic approach to coupled cluster. <i>Journal of Chemical Physics</i> , 2020, 153, 144117.	1.2	3
13	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.	1.7	9
14	Accelerating Convergence in Fock Space Quantum Monte Carlo Methods. <i>Journal of Chemical Theory and Computation</i> , 2020, 16, 1503-1510.	2.3	7
15	Ionic-caged heterometallic bismuth–platinum complex exhibiting electrocatalytic CO ₂ reduction. <i>Dalton Transactions</i> , 2020, 49, 2652-2660.	1.6	9
16	A stochastic approach to unitary coupled cluster. <i>Journal of Chemical Physics</i> , 2020, 153, 214106.	1.2	17
17	General Approach for Multireference Ground and Excited States Using Nonorthogonal Configuration Interaction. <i>Journal of Chemical Theory and Computation</i> , 2019, 15, 4851-4861.	2.3	15
18	Using SCF metadynamics to extend density matrix embedding theory to excited states. <i>Journal of Chemical Physics</i> , 2019, 151, 034112.	1.2	15

#	ARTICLE	IF	CITATIONS
19	Multireference Stochastic Coupled Cluster. <i>Journal of Chemical Theory and Computation</i> , 2019, 15, 6625-6635.	2.3	10
20	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.	2.3	33
21	Complex adiabatic connection: A hidden non-Hermitian path from ground to excited states. <i>Journal of Chemical Physics</i> , 2019, 150, 041103.	1.2	12
22	Parity-Time Symmetry in Hartree-Fock Theory. <i>Journal of Chemical Theory and Computation</i> , 2019, 15, 4374-4385.	2.3	6
23	Preconditioning and Perturbative Estimators in Full Configuration Interaction Quantum Monte Carlo. <i>Journal of Chemical Theory and Computation</i> , 2019, 15, 3537-3551.	2.3	20
24	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.	1.0	1
25	Diagrammatic Coupled Cluster Monte Carlo. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 925-935.	2.1	14
26	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.	2.3	24
27	Holomorphic Hartree-Fock Theory: The Nature of Two-Electron Problems. <i>Journal of Chemical Theory and Computation</i> , 2018, 14, 607-618.	2.3	18
28	Large scale parallelization in stochastic coupled cluster. <i>Journal of Chemical Physics</i> , 2018, 149, 204103.	1.2	15
29	Modeling Electron Transfers Using Quasidiabatic Hartree-Fock States. <i>Journal of Chemical Theory and Computation</i> , 2018, 14, 4629-4639.	2.3	15
30	Stochastic coupled cluster theory: Efficient sampling of the coupled cluster expansion. <i>Journal of Chemical Physics</i> , 2017, 147, 124105.	1.2	26
31	A study of the dense uniform electron gas with high orders of coupled cluster. <i>Journal of Chemical Physics</i> , 2017, 147, 194105.	1.2	28
32	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.	1.2	40
33	Understanding and improving the efficiency of full configuration interaction quantum Monte Carlo. <i>Journal of Chemical Physics</i> , 2016, 144, 094110.	1.2	12
34	Holomorphic Hartree-Fock Theory: An Inherently Multireference Approach. <i>Journal of Chemical Theory and Computation</i> , 2016, 12, 167-173.	2.3	28
35	Linked coupled cluster Monte Carlo. <i>Journal of Chemical Physics</i> , 2016, 144, 044111.	1.2	27
36	Minimising biases in full configuration interaction quantum Monte Carlo. <i>Journal of Chemical Physics</i> , 2015, 142, 104101.	1.2	18

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37	Open-Source Development Experiences in Scientific Software: The HANDE Quantum Monte Carlo Project. <i>Journal of Open Research Software</i> , 2015, 3, 9.	2.7	21
38	Holomorphic Hartree-Fock Theory and Configuration Interaction. <i>Journal of Chemical Theory and Computation</i> , 2014, 10, 4795-4800.	2.3	21
39	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.	1.2	134
40	Stochastic Coupled Cluster Theory. <i>Physical Review Letters</i> , 2010, 105, 263004.	2.9	71
41	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.	1.2	567
42	Hartree-Fock solutions as a quasidiabatic basis for nonorthogonal configuration interaction. <i>Journal of Chemical Physics</i> , 2009, 131, 124113.	1.2	90
43	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.	1.3	134
44	Electron correlation from path resummations: the double-excitation star. <i>Physical Chemistry Chemical Physics</i> , 2008, 10, 652-657.	1.3	4
45	Locating Multiple Self-Consistent Field Solutions: An Approach Inspired by Metadynamics. <i>Physical Review Letters</i> , 2008, 101, 193001.	2.9	74
46	Stochastic Perturbation Theory: A Low-Scaling Approach to Correlated Electronic Energies. <i>Physical Review Letters</i> , 2007, 99, 143001.	2.9	32
47	A combinatorial approach to the electron correlation problem. <i>Journal of Chemical Physics</i> , 2005, 123, 204106.	1.2	14