

Qiming Sun

List of Publications by Year in descending order

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Version: 2024-02-01

25
papers

3,292
citations

304743

22
h-index

580821

25
g-index

25
all docs

25
docs citations

25
times ranked

2175
citing authors

#	ARTICLE	IF	CITATIONS
1	Pyscf: the Python-based simulations of chemistry framework. Wiley Interdisciplinary Reviews: Computational Molecular Science, 2018, 8, e1340.	14.6	894
2	Recent developments in the Pyscf program package. Journal of Chemical Physics, 2020, 153, 024109.	3.0	388
3	OpenFermion: the electronic structure package for quantum computers. Quantum Science and Technology, 2020, 5, 034014.	5.8	214
4	Quantum Embedding Theories. Accounts of Chemical Research, 2016, 49, 2705-2712.	15.6	200
5	Gaussian-Based Coupled-Cluster Theory for the Ground-State and Band Structure of Solids. Journal of Chemical Theory and Computation, 2017, 13, 1209-1218.	5.3	171
6	Towards the Solution of the Many-Electron Problem in Real Materials: Equation of State of the Hydrogen Chain with State-of-the-Art Many-Body Methods. Physical Review X, 2017, 7, .	8.9	171
7	A Practical Guide to Density Matrix Embedding Theory in Quantum Chemistry. Journal of Chemical Theory and Computation, 2016, 12, 2706-2719.	5.3	147
8	N-Electron Valence State Perturbation Theory Based on a Density Matrix Renormalization Group Reference Function, with Applications to the Chromium Dimer and a Trimer Model of Poly(Phenylenevinylene). Journal of Chemical Theory and Computation, 2016, 12, 1583-1591.	5.3	145
9	Libcint: An efficient general integral library for Gaussian basis functions. Journal of Computational Chemistry, 2015, 36, 1664-1671.	3.3	123
10	Automated Construction of Molecular Active Spaces from Atomic Valence Orbitals. Journal of Chemical Theory and Computation, 2017, 13, 4063-4078.	5.3	119
11	Stochastic Multiconfigurational Self-Consistent Field Theory. Journal of Chemical Theory and Computation, 2015, 11, 5316-5325.	5.3	86
12	A general second order complete active space self-consistent-field solver for large-scale systems. Chemical Physics Letters, 2017, 683, 291-299.	2.6	84
13	BDF: A relativistic electronic structure program package. Journal of Chemical Physics, 2020, 152, 064113.	3.0	79
14	Electronic landscape of the P-cluster of nitrogenase as revealed through many-electron quantum wavefunction simulations. Nature Chemistry, 2019, 11, 1026-1033.	13.6	67
15	Gaussian and plane-wave mixed density fitting for periodic systems. Journal of Chemical Physics, 2017, 147, 164119.	3.0	66
16	Exact two-component relativistic theory for nuclear magnetic resonance parameters. Journal of Chemical Physics, 2009, 131, 081101.	3.0	56
17	Exact two-component relativistic theory for NMR parameters: General formulation and pilot application. Journal of Chemical Physics, 2012, 137, 174105.	3.0	54
18	Fully relativistic theories and methods for NMR parameters. Theoretical Chemistry Accounts, 2012, 131, 1.	1.4	45

#	ARTICLE	IF	CITATIONS
19	Exact and Optimal Quantum Mechanics/Molecular Mechanics Boundaries. Journal of Chemical Theory and Computation, 2014, 10, 3784-3790.	5.3	37
20	Deep Learning for Optoelectronic Properties of Organic Semiconductors. Journal of Physical Chemistry C, 2020, 124, 7048-7060.	3.1	35
21	Transfer learning with graph neural networks for optoelectronic properties of conjugated oligomers. Journal of Chemical Physics, 2021, 154, 024906.	3.0	28
22	Electronic structure of bulk manganese oxide and nickel oxide from coupled cluster theory. Physical Review B, 2020, 101, .	3.2	27
23	Ground-state phase diagram of the three-band Hubbard model from density matrix embedding theory. Physical Review Research, 2020, 2, .	3.6	22
24	Machine learning Frenkel Hamiltonian parameters to accelerate simulations of exciton dynamics. Journal of Chemical Physics, 2020, 153, 074111.	3.0	20
25	Efficient evaluation of the Breit operator in the Pauli spinor basis. Journal of Chemical Physics, 2022, 157, .	3.0	14