

Dominika Zgid

List of Publications by Year in descending order

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40
papers

1,872
citations

218677

26
h-index

289244

40
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40
all docs

40
docs citations

40
times ranked

1124
citing authors

#	ARTICLE	IF	CITATIONS
1	Exploring Coupled Cluster Green's Function as a Method for Treating System and Environment in Green's Function Embedding Methods. Journal of Chemical Theory and Computation, 2022, 18, 664-676.	5.3	7
2	Iterative subspace algorithms for finite-temperature solution of Dyson equation. Journal of Chemical Physics, 2022, 156, 094101.	3.0	11
3	Sparse-Hamiltonian approach to the time-evolution of molecules on quantum computers. European Physical Journal: Special Topics, 2021, 230, 1067-1071.	2.6	1
4	Testing the Green's function coupled cluster singles and doubles impurity solver on real materials within the framework of self-energy embedding theory. Physical Review B, 2021, 103, .	3.2	8
5	Electron correlations in the cubic paramagnetic perovskite SrTiO_3 : Results from fully self-consistent self-energy embedding calculations. Physical Review B, 2021, 103, .	3.2	13
6	Interpretation of multiple solutions in fully iterative GF2 and GW schemes using local analysis of two-particle density matrices. Journal of Chemical Physics, 2021, 155, 024101.	3.0	17
7	Evaluation of two-particle properties within finite-temperature self-consistent one-particle Green's function methods: Theory and application to GW and GF2. Journal of Chemical Physics, 2021, 155, 024119.	3.0	16
8	Material-Specific Optimization of Gaussian Basis Sets against Plane Wave Data. Journal of Chemical Theory and Computation, 2021, 17, 5611-5622.	5.3	6
9	Analytical continuation of matrix-valued functions: Carathéodory formalism. Physical Review B, 2021, 104, .	3.2	31
10	Dynamical Self-energy Mapping (DSEM) for Creation of Sparse Hamiltonians Suitable for Quantum Computing. Journal of Chemical Theory and Computation, 2021, , .	5.3	1
11	<i>Ab initio</i> self-energy embedding for the photoemission spectra of NiO and MnO. Physical Review B, 2020, 102, .	3.2	31
12	Direct Comparison of Many-Body Methods for Realistic Electronic Hamiltonians. Physical Review X, 2020, 10, .	8.9	68
13	Legendre-spectral Dyson equation solver with super-exponential convergence. Journal of Chemical Physics, 2020, 152, 134107.	3.0	19
14	Effect of propagator renormalization on the band gap of insulating solids. Physical Review B, 2019, 100, .	3.2	19
15	Coupled Cluster as an Impurity Solver for Green's Function Embedding Methods. Journal of Chemical Theory and Computation, 2019, 15, 6010-6024.	5.3	34
16	Self-Energy Embedding Theory (SEET) for Periodic Systems. Journal of Chemical Theory and Computation, 2019, 15, 229-240.	5.3	47
17	Spin-Unrestricted Self-Energy Embedding Theory. Journal of Physical Chemistry Letters, 2018, 9, 4444-4450.	4.6	17
18	Chebyshev polynomial representation of imaginary-time response functions. Physical Review B, 2018, 98, .	3.2	32

#	ARTICLE	IF	CITATIONS
19	Generalized Self-Energy Embedding Theory. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 2200-2205.	4.6	45
20	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. <i>Physical Review X</i> , 2017, 7, .	8.9	171
21	Testing self-energy embedding theory in combination with GW. <i>Physical Review B</i> , 2017, 96, .	3.2	22
22	Stochastic Self-Consistent Second-Order Green's Function Method for Correlation Energies of Large Electronic Systems. <i>Journal of Chemical Theory and Computation</i> , 2017, 13, 5396-5403.	5.3	40
23	Combining Density Functional Theory and Green's Function Theory: Range-Separated, Nonlocal, Dynamic, and Orbital-Dependent Hybrid Functional. <i>Journal of Chemical Theory and Computation</i> , 2017, 13, 5317-5331.	5.3	10
24	Finite temperature quantum embedding theories for correlated systems. <i>New Journal of Physics</i> , 2017, 19, 023047.	2.9	63
25	Self-consistent second-order Green's function perturbation theory for periodic systems. <i>Journal of Chemical Physics</i> , 2016, 144, 054106.	3.0	75
26	Exploring connections between statistical mechanics and Green's functions for realistic systems: Temperature dependent electronic entropy and internal energy from a self-consistent second-order Green's function. <i>Journal of Chemical Physics</i> , 2016, 145, 204106.	3.0	43
27	Rigorous Ab Initio Quantum Embedding for Quantum Chemistry Using Green's Function Theory: Screened Interaction, Nonlocal Self-Energy Relaxation, Orbital Basis, and Chemical Accuracy. <i>Journal of Chemical Theory and Computation</i> , 2016, 12, 4856-4870.	5.3	44
28	Efficient Temperature-Dependent Green's Function Methods for Realistic Systems: Using Cubic Spline Interpolation to Approximate Matsubara Green's Functions. <i>Journal of Chemical Theory and Computation</i> , 2016, 12, 2250-2259.	5.3	30
29	Efficient Temperature-Dependent Green's Functions Methods for Realistic Systems: Compact Grids for Orthogonal Polynomial Transforms. <i>Journal of Chemical Theory and Computation</i> , 2016, 12, 564-571.	5.3	40
30	Systematically improvable multiscale solver for correlated electron systems. <i>Physical Review B</i> , 2015, 91, .	3.2	77
31	Communication: Towards <i>ab initio</i> self-energy embedding theory in quantum chemistry. <i>Journal of Chemical Physics</i> , 2015, 143, 241102.	3.0	76
32	Fractional charge and spin errors in self-consistent Green's function theory. <i>Journal of Chemical Physics</i> , 2015, 142, 194108.	3.0	37
33	Communication: The description of strong correlation within self-consistent Green's function second-order perturbation theory. <i>Journal of Chemical Physics</i> , 2014, 140, 241101.	3.0	87
34	Local Hamiltonians for quantitative Green's function embedding methods. <i>Journal of Chemical Physics</i> , 2014, 141, 194105.	3.0	34
35	Truncated configuration interaction expansions as solvers for correlated quantum impurity models and dynamical mean-field theory. <i>Physical Review B</i> , 2012, 86, .	3.2	107
36	Dynamical mean-field theory from a quantum chemical perspective. <i>Journal of Chemical Physics</i> , 2011, 134, 094115.	3.0	106

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37	A study of cumulant approximations to n-electron valence multireference perturbation theory. <i>Journal of Chemical Physics</i> , 2009, 130, 194107.	3.0	70
38	Chapter 7 The Density Matrix Renormalization Group in Quantum Chemistry. <i>Annual Reports in Computational Chemistry</i> , 2009, 5, 149-162.	1.7	72
39	The density matrix renormalization group self-consistent field method: Orbital optimization with the density matrix renormalization group method in the active space. <i>Journal of Chemical Physics</i> , 2008, 128, 144116.	3.0	164
40	Obtaining the two-body density matrix in the density matrix renormalization group method. <i>Journal of Chemical Physics</i> , 2008, 128, 144115.	3.0	81