

Eric Neuscamman

List of Publications by Year in descending order

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Version: 2024-02-01

44
papers

4,105
citations

304743

22
h-index

233421

45
g-index

45
all docs

45
docs citations

45
times ranked

4592
citing authors

#	ARTICLE	IF	CITATIONS
1	Advances in molecular quantum chemistry contained in the Q-Chem 4 program package. <i>Molecular Physics</i> , 2015, 113, 184-215.	1.7	2,561
2	QMCPACK: an open source <i>ab initio</i> quantum Monte Carlo package for the electronic structure of atoms, molecules and solids. <i>Journal of Physics Condensed Matter</i> , 2018, 30, 195901.	1.8	187
3	Optimizing large parameter sets in variational quantum Monte Carlo. <i>Physical Review B</i> , 2012, 85, .	3.2	91
4	A review of canonical transformation theory. <i>International Reviews in Physical Chemistry</i> , 2010, 29, 231-271.	2.3	86
5	Size Consistency Error in the Antisymmetric Geminal Power Wave Function can be Completely Removed. <i>Physical Review Letters</i> , 2012, 109, 203001.	7.8	83
6	Quadratic canonical transformation theory and higher order density matrices. <i>Journal of Chemical Physics</i> , 2009, 130, 124102.	3.0	81
7	QMCPACK: Advances in the development, efficiency, and application of auxiliary field and real-space variational and diffusion quantum Monte Carlo. <i>Journal of Chemical Physics</i> , 2020, 152, 174105.	3.0	80
8	Strongly contracted canonical transformation theory. <i>Journal of Chemical Physics</i> , 2010, 132, 024106.	3.0	75
9	A study of cumulant approximations to n-electron valence multireference perturbation theory. <i>Journal of Chemical Physics</i> , 2009, 130, 194107.	3.0	70
10	The Jastrow antisymmetric geminal power in Hilbert space: Theory, benchmarking, and application to a novel transition state. <i>Journal of Chemical Physics</i> , 2013, 139, 194105.	3.0	64
11	An Efficient Variational Principle for the Direct Optimization of Excited States. <i>Journal of Chemical Theory and Computation</i> , 2016, 12, 3436-3440.	5.3	48
12	Communication: A Jastrow factor coupled cluster theory for weak and strong electron correlation. <i>Journal of Chemical Physics</i> , 2013, 139, 181101.	3.0	46
13	Communication: A mean field platform for excited state quantum chemistry. <i>Journal of Chemical Physics</i> , 2018, 149, 081101.	3.0	46
14	A Generalized Variational Principle with Applications to Excited State Mean Field Theory. <i>Journal of Chemical Theory and Computation</i> , 2020, 16, 1526-1540.	5.3	36
15	Striped Spin Liquid Crystal Ground State Instability of Kagome Antiferromagnets. <i>Physical Review Letters</i> , 2013, 111, 187205.	7.8	34
16	Size Consistent Excited States via Algorithmic Transformations between Variational Principles. <i>Journal of Chemical Theory and Computation</i> , 2017, 13, 6078-6088.	5.3	31
17	Tracking Excited States in Wave Function Optimization Using Density Matrices and Variational Principles. <i>Journal of Chemical Theory and Computation</i> , 2019, 15, 4790-4803.	5.3	31
18	Extended implementation of canonical transformation theory: parallelization and a new level-shifted condition. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 7809.	2.8	29

#	ARTICLE	IF	CITATIONS
19	Improved Optimization for the Cluster Jastrow Antisymmetric Geminal Power and Tests on Triple-Bond Dissociations. <i>Journal of Chemical Theory and Computation</i> , 2016, 12, 3149-3159.	5.3	29
20	Excited State Specific Multi-Slater Jastrow Wave Functions. <i>Journal of Physical Chemistry A</i> , 2019, 123, 1487-1497.	2.5	27
21	Nonstochastic algorithms for Jastrow-Slater and correlator product state wave functions. <i>Physical Review B</i> , 2011, 84, .	3.2	26
22	Subtractive manufacturing with geminal powers:making good use of a bad wave function. <i>Molecular Physics</i> , 2016, 114, 577-583.	1.7	23
23	Density Functional Extension to Excited-State Mean-Field Theory. <i>Journal of Chemical Theory and Computation</i> , 2020, 16, 164-178.	5.3	22
24	Excitation variance matching with limited configuration interaction expansions in variational Monte Carlo. <i>Journal of Chemical Physics</i> , 2017, 147, 164114.	3.0	21
25	A Blocked Linear Method for Optimizing Large Parameter Sets in Variational Monte Carlo. <i>Journal of Chemical Theory and Computation</i> , 2017, 13, 2604-2611.	5.3	20
26	Excited-State Diffusion Monte Carlo Calculations: A Simple and Efficient Two-Determinant Ansatz. <i>Journal of Chemical Theory and Computation</i> , 2019, 15, 178-189.	5.3	20
27	Improving Excited-State Potential Energy Surfaces via Optimal Orbital Shapes. <i>Journal of Physical Chemistry A</i> , 2020, 124, 8273-8279.	2.5	18
28	Communication: Variation after response in quantum Monte Carlo. <i>Journal of Chemical Physics</i> , 2016, 145, 081103.	3.0	17
29	Complementary first and second derivative methods for ansatz optimization in variational Monte Carlo. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 14491-14510.	2.8	17
30	A self-consistent field formulation of excited state mean field theory. <i>Journal of Chemical Physics</i> , 2020, 153, 164108.	3.0	16
31	Correlator product state study of molecular magnetism in the giant Kaperate MoO_7^{2-} . <i>Physical Review B</i> , 2012, 86, 080401.	3.2	15
32	Equation of Motion Theory for Excited States in Variational Monte Carlo and the Jastrow Antisymmetric Geminal Power in Hilbert Space. <i>Journal of Chemical Theory and Computation</i> , 2016, 12, 3719-3726.	5.3	15
33	A hybrid approach to excited-state-specific variational Monte Carlo and doubly excited states. <i>Journal of Chemical Physics</i> , 2020, 153, 234105.	3.0	15
34	Variational Excitations in Real Solids: Optical Gaps and Insights into Many-Body Perturbation Theory. <i>Physical Review Letters</i> , 2019, 123, 036402.	7.8	14
35	N^5 -Scaling Excited-State-Specific Perturbation Theory. <i>Journal of Chemical Theory and Computation</i> , 2020, 16, 6132-6141.	5.3	14
36	Suppressing Ionic Terms with Number-Counting Jastrow Factors in Real Space. <i>Journal of Chemical Theory and Computation</i> , 2017, 13, 2035-2042.	5.3	13

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37	Charge-transfer excited states: Seeking a balanced and efficient wave function ansatz in variational Monte Carlo. <i>Journal of Chemical Physics</i> , 2017, 147, 194101.	3.0	13
38	Core excitations with excited state mean field and perturbation theory. <i>Journal of Chemical Physics</i> , 2020, 153, 154102.	3.0	13
39	Amplitude Determinant Coupled Cluster with Pairwise Doubles. <i>Journal of Chemical Theory and Computation</i> , 2016, 12, 5841-5850.	5.3	12
40	Excited state mean-field theory without automatic differentiation. <i>Journal of Chemical Physics</i> , 2020, 152, 204112.	3.0	12
41	A variational Monte Carlo approach for core excitations. <i>Journal of Chemical Physics</i> , 2020, 153, 144108.	3.0	10
42	Reduced scaling Hilbert space variational Monte Carlo. <i>Journal of Chemical Physics</i> , 2018, 149, 184106.	3.0	6
43	Clean and Convenient Tessellations for Number Counting Jastrow Factors. <i>Journal of Chemical Theory and Computation</i> , 2019, 15, 1102-1121.	5.3	4
44	Starting-point-independent quantum Monte Carlo calculations of iron oxide. <i>Physical Review B</i> , 2020, 102, .	3.2	4