

Libor Veis

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

35
papers

861
citations

15
h-index

28
g-index

40
ext. papers

1,245
ext. citations

7.6
avg, IF

4.49
L-index

#	Paper	IF	Citations
35	Quantum Chemistry in the Age of Quantum Computing. <i>Chemical Reviews</i> , 2019 , 119, 10856-10915	68.1	288
34	Coupled Cluster Method with Single and Double Excitations Tailored by Matrix Product State Wave Functions. <i>Journal of Physical Chemistry Letters</i> , 2016 , 7, 4072-4078	6.4	59
33	Quantum computing applied to calculations of molecular energies: CH ₂ benchmark. <i>Journal of Chemical Physics</i> , 2010 , 133, 194106	3.9	41
32	Low-depth circuit ansatz for preparing correlated fermionic states on a quantum computer. <i>Quantum Science and Technology</i> , 2019 , 4, 045005	5.5	36
31	On-line preconcentration of weak electrolytes by electrokinetic accumulation in CE: experiment and simulation. <i>Electrophoresis</i> , 2007 , 28, 1540-7	3.6	33
30	Adiabatic state preparation study of methylene. <i>Journal of Chemical Physics</i> , 2014 , 140, 214111	3.9	30
29	The correlation theory of the chemical bond. <i>Scientific Reports</i> , 2017 , 7, 2237	4.9	29
28	Fermionic Orbital Optimization in Tensor Network States. <i>Physical Review Letters</i> , 2016 , 117, 210402	7.4	28
27	Relativistic quantum chemistry on quantum computers. <i>Physical Review A</i> , 2012 , 85,	2.6	25
26	Numerical and Theoretical Aspects of the DMRG-TCC Method Exemplified by the Nitrogen Dimer. <i>Journal of Chemical Theory and Computation</i> , 2019 , 15, 2206-2220	6.4	25
25	The Intricate Case of Tetramethyleneethane: A Full Configuration Interaction Quantum Monte Carlo Benchmark and Multireference Coupled Cluster Studies. <i>Journal of Chemical Theory and Computation</i> , 2018 , 14, 2439-2445	6.4	24
24	Ab initio calculations on the formation and rearrangement of spiropentane. <i>Journal of Physical Chemistry A</i> , 2009 , 113, 10557-63	2.8	24
23	On-Surface Synthesis and Characterization of [7]Triangulene Quantum Ring. <i>Nano Letters</i> , 2021 , 21, 861-867	13.3	23
22	Quantum chemistry beyond BornOppenheimer approximation on a quantum computer: A simulated phase estimation study. <i>International Journal of Quantum Chemistry</i> , 2016 , 116, 1328-1336	2.1	21
21	Advanced density matrix renormalization group method for nuclear structure calculations. <i>Physical Review C</i> , 2015 , 92,	2.7	18
20	Coupled Cluster Study of Polycyclopentanes: Structure and Properties of C ₅ H _{2n} , n = 0-4. <i>Collection of Czechoslovak Chemical Communications</i> , 2008 , 73, 1525-1551		15
19	Unravelling the Open-Shell Character of Peripentacene on Au(111). <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 330-336	6.4	12

18	Toward the efficient local tailored coupled cluster approximation and the peculiar case of oxo-Mn(Salen). <i>Journal of Chemical Physics</i> , 2019 , 151, 084112	3.9	11
17	Ground state of the Fe(II)-porphyrin model system corresponds to quintet: a DFT and DMRG-based tailored CC study. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 17033-17037	3.6	10
16	Massively parallel quantum chemical density matrix renormalization group method. <i>Journal of Computational Chemistry</i> , 2021 , 42, 534-544	3.5	10
15	Capturing the Dynamic Correlation for Arbitrary Spin-Symmetry CASSCF Reference with Adiabatic Connection Approaches: Insights into the Electronic Structure of the Tetramethyleneethane Diradical. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 4668-4674	6.4	9
14	On-Surface Hydrogenation of Buckybowls: From Curved Aromatic Molecules to Planar Non-Kekulé Aromatic Hydrocarbons. <i>ACS Nano</i> , 2020 ,	16.7	9
13	Machine Learning-Assisted Selection of Active Spaces for Strongly Correlated Transition Metal Systems. <i>Journal of Chemical Theory and Computation</i> , 2021 , 17, 6053-6072	6.4	9
12	DMRG on Top of Plane-Wave Kohn-Sham Orbitals: A Case Study of Defected Boron Nitride. <i>Journal of Chemical Theory and Computation</i> , 2021 , 17, 1143-1154	6.4	9
11	Toward DMRG-tailored coupled cluster method in the 4c-relativistic domain. <i>Journal of Chemical Physics</i> , 2020 , 152, 174107	3.9	8
10	Near-Linear Scaling in DMRG-Based Tailored Coupled Clusters: An Implementation of DLPNO-TCCSD and DLPNO-TCCSD(T). <i>Journal of Chemical Theory and Computation</i> , 2020 , 16, 3028-3040	6.4	7
9	An Isolated Molecule of Iron(II) Phthalocyanin Exhibits Quintet Ground-State: A Nexus between Theory and Experiment. <i>Chemistry - A European Journal</i> , 2018 , 24, 13413-13417	4.8	7
8	Density Matrix Renormalization Group with Dynamical Correlation via Adiabatic Connection. <i>Journal of Chemical Theory and Computation</i> , 2021 ,	6.4	7
7	Variational quantum eigensolver for approximate diagonalization of downfolded Hamiltonians using generalized unitary coupled cluster ansatz. <i>Quantum Science and Technology</i> , 2021 , 6, 034008	5.5	7
6	Quantum information-based analysis of electron-deficient bonds. <i>Journal of Chemical Physics</i> , 2019 , 150, 204117	3.9	5
5	Solving Coupled Cluster Equations by the Newton Krylov Method. <i>Frontiers in Chemistry</i> , 2020 , 8, 590184	5	4
4	Hückel-Hubbard-Ohno modeling of π bonds in ethene and ethyne with application to trans-polyacetylene. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 18835-45	3.6	3
3	Quantum Computing Approach to Nonrelativistic and Relativistic Molecular Energy Calculations. <i>Advances in Chemical Physics</i> , 2014 , 107-136		2
2	On-Surface Strain-Driven Synthesis of Nonalternant Non-Benzenoid Aromatic Compounds Containing Four- to Eight-Membered Rings. <i>Journal of the American Chemical Society</i> , 2021 , 143, 14694-14702	16.4	2
1	Efficient Adiabatic Connection Approach for Strongly Correlated Systems: Application to Singlet-Triplet Gaps of Biradicals. <i>Journal of Physical Chemistry Letters</i> , 2022 , 4570-4578	6.4	1

