

Libor Veis

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/4420986/libor-veis-publications-by-year.pdf>

Version: 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	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
34	Density Matrix Renormalization Group with Dynamical Correlation via Adiabatic Connection. <i>Journal of Chemical Theory and Computation</i> , 2021 ,	6.4	7
33	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
32	On-Surface Synthesis and Characterization of [7]Triangulene Quantum Ring. <i>Nano Letters</i> , 2021 , 21, 861-867	6.3	23
31	Unravelling the Open-Shell Character of Peripentacene on Au(111). <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 330-336	6.4	12
30	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
29	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
28	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
27	Massively parallel quantum chemical density matrix renormalization group method. <i>Journal of Computational Chemistry</i> , 2021 , 42, 534-544	3.5	10
26	Toward DMRG-tailored coupled cluster method in the 4c-relativistic domain. <i>Journal of Chemical Physics</i> , 2020 , 152, 174107	3.9	8
25	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
24	Solving Coupled Cluster Equations by the Newton Krylov Method. <i>Frontiers in Chemistry</i> , 2020 , 8, 590184	5	4
23	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
22	On-Surface Hydrogenation of Buckybowls: From Curved Aromatic Molecules to Planar Non-Kekulé Aromatic Hydrocarbons. <i>ACS Nano</i> , 2020 ,	16.7	9
21	Quantum Chemistry in the Age of Quantum Computing. <i>Chemical Reviews</i> , 2019 , 119, 10856-10915	68.1	288
20	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
19	Quantum information-based analysis of electron-deficient bonds. <i>Journal of Chemical Physics</i> , 2019 , 150, 204117	3.9	5

18	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
17	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
16	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
15	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
14	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
13	The correlation theory of the chemical bond. <i>Scientific Reports</i> , 2017 , 7, 2237	4.9	29
12	Fermionic Orbital Optimization in Tensor Network States. <i>Physical Review Letters</i> , 2016 , 117, 210402	7.4	28
11	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
10	Quantum chemistry beyond Born-Oppenheimer approximation on a quantum computer: A simulated phase estimation study. <i>International Journal of Quantum Chemistry</i> , 2016 , 116, 1328-1336	2.1	21
9	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
8	Advanced density matrix renormalization group method for nuclear structure calculations. <i>Physical Review C</i> , 2015 , 92,	2.7	18
7	Quantum Computing Approach to Nonrelativistic and Relativistic Molecular Energy Calculations. <i>Advances in Chemical Physics</i> , 2014 , 107-136		2
6	Adiabatic state preparation study of methylene. <i>Journal of Chemical Physics</i> , 2014 , 140, 214111	3.9	30
5	Relativistic quantum chemistry on quantum computers. <i>Physical Review A</i> , 2012 , 85,	2.6	25
4	Quantum computing applied to calculations of molecular energies: CH ₂ benchmark. <i>Journal of Chemical Physics</i> , 2010 , 133, 194106	3.9	41
3	Ab initio calculations on the formation and rearrangement of spiro-pentane. <i>Journal of Physical Chemistry A</i> , 2009 , 113, 10557-63	2.8	24
2	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
1	On-line preconcentration of weak electrolytes by electrokinetic accumulation in CE: experiment and simulation. <i>Electrophoresis</i> , 2007 , 28, 1540-7	3.6	33

