

Christoph Riplinger

List of Publications by Year in descending order

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Version: 2024-02-01

23
papers

7,109
citations

393982

19
h-index

642321

23
g-index

23
all docs

23
docs citations

23
times ranked

4490
citing authors

#	ARTICLE	IF	CITATIONS
1	The ORCA quantum chemistry program package. <i>Journal of Chemical Physics</i> , 2020, 152, 224108.	1.2	1,915
2	An efficient and near linear scaling pair natural orbital based local coupled cluster method. <i>Journal of Chemical Physics</i> , 2013, 138, 034106.	1.2	1,276
3	Natural triple excitations in local coupled cluster calculations with pair natural orbitals. <i>Journal of Chemical Physics</i> , 2013, 139, 134101.	1.2	1,240
4	Sparse mapsâ€”A systematic infrastructure for reduced-scaling electronic structure methods. II. Linear scaling domain based pair natural orbital coupled cluster theory. <i>Journal of Chemical Physics</i> , 2016, 144, 024109.	1.2	740
5	Communication: An improved linear scaling perturbative triples correction for the domain based local pair-natural orbital based singles and doubles coupled cluster method [DLPNO-CCSD(T)]. <i>Journal of Chemical Physics</i> , 2018, 148, 011101.	1.2	402
6	A new near-linear scaling, efficient and accurate, open-shell domain-based local pair natural orbital coupled cluster singles and doubles theory. <i>Journal of Chemical Physics</i> , 2017, 146, 164105.	1.2	285
7	Decomposition of Intermolecular Interaction Energies within the Local Pair Natural Orbital Coupled Cluster Framework. <i>Journal of Chemical Theory and Computation</i> , 2016, 12, 4778-4792.	2.3	231
8	Sparse mapsâ€”A systematic infrastructure for reduced-scaling electronic structure methods. I. An efficient and simple linear scaling local MP2 method that uses an intermediate basis of pair natural orbitals. <i>Journal of Chemical Physics</i> , 2015, 143, 034108.	1.2	211
9	NAMD goes quantum: an integrative suite for hybrid simulations. <i>Nature Methods</i> , 2018, 15, 351-354.	9.0	149
10	SparseMapsâ€”A systematic infrastructure for reduced scaling electronic structure methods. V. Linear scaling explicitly correlated coupled-cluster method with pair natural orbitals. <i>Journal of Chemical Physics</i> , 2017, 146, 174108.	1.2	122
11	Interaction of Radical Pairs Through-Bond and Through-Space: Scope and Limitations of the Pointâ€”Dipole Approximation in Electron Paramagnetic Resonance Spectroscopy. <i>Journal of the American Chemical Society</i> , 2009, 131, 10092-10106.	6.6	116
12	SparseMapsâ€”A systematic infrastructure for reduced-scaling electronic structure methods. IV. Linear-scaling second-order explicitly correlated energy with pair natural orbitals. <i>Journal of Chemical Physics</i> , 2016, 144, 144109.	1.2	98
13	A near-linear scaling equation of motion coupled cluster method for ionized states. <i>Journal of Chemical Physics</i> , 2018, 148, 244101.	1.2	51
14	Linear scaling perturbative triples correction approximations for open-shell domain-based local pair natural orbital coupled cluster singles and doubles theory [DLPNO-CCSD(T/T)]. <i>Journal of Chemical Physics</i> , 2020, 152, 024116.	1.2	50
15	Treating Subvalence Correlation Effects in Domain Based Pair Natural Orbital Coupled Cluster Calculations: An Out-of-the-Box Approach. <i>Journal of Chemical Theory and Computation</i> , 2017, 13, 3220-3227.	2.3	45
16	Pair natural orbital and canonical coupled cluster reaction enthalpies involving light to heavy alkali and alkaline earth metals: the importance of sub-valence correlation. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 9374-9391.	1.3	43
17	Multilevel Approaches within the Local Pair Natural Orbital Framework. <i>Journal of Chemical Theory and Computation</i> , 2017, 13, 3198-3207.	2.3	38
18	The Reaction Mechanism of Cytochrome P450 NO Reductase: A Detailed Quantum Mechanics/Molecular Mechanics Study. <i>ChemPhysChem</i> , 2011, 12, 3192-3203.	1.0	36

#	ARTICLE	IF	CITATIONS
19	Multilayer Approach to the IP-EOM-DLPNO-CCSD Method: Theory, Implementation, and Application. <i>Journal of Chemical Theory and Computation</i> , 2019, 15, 2265-2277.	2.3	21
20	Addressing the System-Size Dependence of the Local Approximation Error in Coupled-Cluster Calculations. <i>Journal of Physical Chemistry A</i> , 2021, 125, 9932-9939.	1.1	17
21	Unraveling individual host-guest interactions in molecular recognition from first principles quantum mechanics: Insights into the nature of nicotinic acetylcholine receptor agonist binding. <i>Journal of Computational Chemistry</i> , 2021, 42, 293-302.	1.5	12
22	Quantum computing in pharma: A multilayer embedding approach for near future applications. <i>Journal of Computational Chemistry</i> , 2023, 44, 406-421.	1.5	7
23	High Level Electronic Structure Calculation of Molecular Solid-State NMR Shielding Constants. <i>Journal of Chemical Theory and Computation</i> , 2022, 18, 2408-2417.	2.3	4