## **Gunnar Schmitz**

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/8941687/publications.pdf Version: 2024-02-01



CUNNAD SCHMITZ

#	Article	IF	CITATIONS
1	TURBOMOLE: Modular program suite for <i>ab initio</i> quantum-chemical and condensed-matter simulations. Journal of Chemical Physics, 2020, 152, 184107.	3.0	616
2	Explicitly correlated PNO-MP2 and PNO-CCSD and their application to the S66 set and large molecular systems. Physical Chemistry Chemical Physics, 2014, 16, 22167-22178.	2.8	92
3	Perturbative triples correction for local pair natural orbital based explicitly correlated CCSD(F12*) using Laplace transformation techniques. Journal of Chemical Physics, 2016, 145, 234107.	3.0	72
4	A scaling PNO–MP2 method using a hybrid OSV–PNO approach with an iterative direct generation of OSVs <sup>â€</sup> . Molecular Physics, 2013, 111, 2463-2476.	1.7	60
5	Gaussian process regression to accelerate geometry optimizations relying on numerical differentiation. Journal of Chemical Physics, 2018, 148, 241704.	3.0	54
6	Auxiliary basis sets for density-fitted correlated wavefunction calculations: weighted core-valence and ECP basis sets for post-d elements. Physical Chemistry Chemical Physics, 2012, 14, 6549.	2.8	53
7	Machine learning for potential energy surfaces: An extensive database and assessment of methods. Journal of Chemical Physics, 2019, 150, 244113.	3.0	42
8	Assessment of the DLPNO Binding Energies of Strongly Noncovalent Bonded Atmospheric Molecular Clusters. ACS Omega, 2020, 5, 7601-7612.	3.5	38
9	Accuracy of Explicitly Correlated Local PNO-CCSD(T). Journal of Chemical Theory and Computation, 2017, 13, 2623-2633.	5.3	37
10	Approximate high mode coupling potentials using Gaussian process regression and adaptive density guided sampling. Journal of Chemical Physics, 2019, 150, 131102.	3.0	36
11	The PNO–MP2 gradient and its application to molecular geometry optimisations. Molecular Physics, 2017, 115, 343-356.	1.7	32
12	A Gaussian process regression adaptive density guided approach for potential energy surface construction. Journal of Chemical Physics, 2020, 153, 064105.	3.0	17
13	Combining Accuracy and Efficiency: An Incremental Focal-Point Method Based on Pair Natural Orbitals. Journal of Chemical Theory and Computation, 2017, 13, 6023-6042.	5.3	14
14	Atomic-batched tensor decomposed two-electron repulsion integrals. Journal of Chemical Physics, 2017, 146, 134112.	3.0	9
15	Can Small Polyaromatics Describe Their Larger Counterparts for Local Reactions? A Computational Study on the H-Abstraction Reaction by an H-Atom from Polyaromatics. Journal of Physical Chemistry A, 2020, 124, 9626-9637.	2.5	8
16	Accuracy of Frequencies Obtained with the Aid of Explicitly Correlated Wave Function Based Methods. Journal of Chemical Theory and Computation, 2017, 13, 3602-3613.	5.3	6
17	Implementation of the iterative triples model CC3 for excitation energies using pair natural orbitals and Laplace transformation techniques. Journal of Chemical Physics, 2020, 153, 034109.	3.0	6
18	An automatized workflow from molecular dynamic simulation to quantum chemical methods to identify elementary reactions and compute reaction constants. Journal of Computational Chemistry, 2021, 42, 2264-2282.	3.3	6

#	Article	IF	CITATIONS
19	Assessment of the overlap metric in the context of RI-MP2 and atomic batched tensor decomposed MP2. Chemical Physics Letters, 2018, 701, 7-14.	2.6	3