Ida-Marie HÃ¸yvik

List of Publications by Year
in descending order

24 papers	1,821 citations	687363 13 h-index	642732 23 g-index
24 all docs	24 docs citations	24 times ranked	1991 citing authors

#	Article	IF	Citations
1	The <scp>D</scp>alton quantum chemistry program system. Wiley Interdisciplinary Reviews: Computational Molecular Science, 2014, 4, 269-284.	14.6	1,166
2	The divide-expand-consolidate family of coupled cluster methods: Numerical illustrations using second order MÃ¸ller-Plesset perturbation theory. Journal of Chemical Physics, 2012, 136, 014105.	3.0	80
3	Orbital localization using fourth central moment minimization. Journal of Chemical Physics, 2012, 137, 224114.	3.0	71
4	e T 1.0: An open source electronic structure program with emphasis on coupled cluster and multilevel methods. Journal of Chemical Physics, 2020, 152, 184103.	3.0	68
5	Trust Region Minimization of Orbital Localization Functions. Journal of Chemical Theory and Computation, 2012, 8, 3137-3146.	5.3	64
6	MP2 energy and density for large molecular systems with internal error control using the Divide-Expand-Consolidate scheme. Physical Chemistry Chemical Physics, 2012, 14, 15706.	2.8	57
7	Characterization and Generation of Local Occupied and Virtual Hartreeâ€“Fock Orbitals. Chemical Reviews, 2016, 116, 3306-3327.	47.7	48
8	Pipekâ€“Mezey localization of occupied and virtual orbitals. Journal of Computational Chemistry, 2013, 34, 1456-1462.	3.3	43
9	The divideâ€“expandâ€“consolidate MP2 scheme goes massively parallel. Molecular Physics, 2013, 111, 1196-1210.	1.7	38
10	Potential Energy Surfaces for Vibrational Structure Calculations from a Multiresolution Adaptive Density-Guided Approach: Implementation and Test Calculations. Journal of Physical Chemistry A, 2009, 113, 8712-8723.	2.5	34
11	Correlated natural transition orbitals for core excitation energies in multilevel coupled cluster models. Journal of Chemical Physics, 2017, 146, 144109.	3.0	31
12	Density-Based Multilevel Hartreeâ€“Fock Model. Journal of Chemical Theory and Computation, 2017, 13, 5282-5290.	5.3	30
13	A perspective on the localizability of Hartreeâ€“Fock orbitals. Theoretical Chemistry Accounts, 2014, 133, 1.	1.4	25
14	Convergence acceleration for the multilevel Hartreeâ€“Fock model. Molecular Physics, 2020, 118, 1626929.	1.7	11
15	Local Hartreeâ€“Fock orbitals using a threeâ€level optimization strategy for the energy. Journal of Computational Chemistry, 2013, 34, 1311-1320.	3.3	10
16	Localized orbitals from basis sets augmented with diffuse functions. Journal of Chemical Physics, 2013, 138, 204104.	3.0	9
17	Generalising localisation schemes of orthogonal orbitals to the localisation of non-orthogonal orbitals. Molecular Physics, 2017, 115, 16-25.	1.7	8
18	The spectrum of the atomic orbital overlap matrix and the locality of the virtual electronic density matrix. Molecular Physics, 2020, 118, e1765034.	1.7	7

#	Article	IF	Citations
19	Unimolecular Decomposition Reactions of Picric Acid and Its Methylated Derivativesâ”€A DFT Study. Journal of Physical Chemistry A, 2022, 126, 2645-2657.	2.5	5
20	Tautomerization of Thymine Using Ultraviolet Light. Langmuir, 2017, 33, 9666-9672.	3.5	4
21	Describing ground and excited state potential energy surfaces for molecular photoswitches using coupled cluster models. Journal of Computational Chemistry, 2021, 42, 1419-1429.	3.3	4
22	Linear-Scaling Implementation of Multilevel Hartreeâ€“Fock Theory. Journal of Chemical Theory and Computation, 2021, 17, 7416-7427.	5.3	4
23	The effect of midbond functions on interaction energies computed using <scp>MP2</scp> and <scp>CCSD</scp>(T). Journal of Computational Chemistry, 2022, 43, 121-131.	3.3	4
24	Convergence of the electronic density for a target region in cluster models of a NH$$_3$$ molecular crystal. Journal of Mathematical Chemistry, 0, , .	1.5	0