Bastien Mussard

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/2790489/publications.pdf

Version: 2024-02-01

18 papers	1,131 citations	623734 14 h-index	839539 18 g-index
20 all docs	20 docs citations	20 times ranked	1310 citing authors

#	Article	IF	Citations
1	Recent developments in the P<scp>y</scp>SCF program package. Journal of Chemical Physics, 2020, 153, 024109.	3.0	388
2	Electrostatic Potential Derived Atomic Charges for Periodic Systems Using a Modified Error Functional. Journal of Chemical Theory and Computation, 2009, 5, 2866-2878.	5.3	281
3	Cheap and Near Exact CASSCF with Large Active Spaces. Journal of Chemical Theory and Computation, 2017, 13, 5468-5478.	5.3	131
4	Basis convergence of range-separated density-functional theory. Journal of Chemical Physics, 2015, 142, 074107.	3.0	40
5	One-Step Treatment of Spinâ€“Orbit Coupling and Electron Correlation in Large Active Spaces. Journal of Chemical Theory and Computation, 2018, 14, 154-165.	5.3	39
6	Spin-unrestricted random-phase approximation with range separation: Benchmark on atomization energies and reaction barrier heights. Journal of Chemical Physics, 2015, 142, 154123.	3.0	34
7	Gaussian continuum basis functions for calculating high-harmonic generation spectra. International Journal of Quantum Chemistry, 2016, 116, 1120-1131.	2.0	32
8	Dielectric Matrix Formulation of Correlation Energies in the Random Phase Approximation: Inclusion of Exchange Effects. Journal of Chemical Theory and Computation, 2016, 12, 2191-2202.	5.3	31
9	Short range DFT combined with long-range local RPA within a range-separated hybrid DFT framework. Chemical Physics Letters, 2012, 550, 162-169.	2.6	29
10	Self-consistent double-hybrid density-functional theory using the optimized-effective-potential method. Journal of Chemical Physics, 2016, 145, 144102.	3.0	25
11	Analytical Energy Gradients in Range-Separated Hybrid Density Functional Theory with Random Phase Approximation. Journal of Chemical Theory and Computation, 2014, 10, 1968-1979.	5.3	21
12	Fractional-charge and fractional-spin errors in range-separated density-functional theory. Molecular Physics, 2017, 115, 161-173.	1.7	21
13	Range-separated double-hybrid density-functional theory with coupled-cluster and random-phase approximations. Journal of Chemical Physics, 2019, 151, 074102.	3.0	20
14	Self-Consistent Range-Separated Density-Functional Theory with Second-Order Perturbative Correction via the Optimized-Effective-Potential Method. Journal of Chemical Theory and Computation, 2020, 16, 211-223.	5.3	15
15	Relationships between charge density response functions, exchange holes and localized orbitals. Computational and Theoretical Chemistry, 2015, 1053, 44-52.	2.5	6
16	Time-Dependent Linear-Response Variational Monte Carlo. Advances in Quantum Chemistry, 2018, 76, 255-270.	0.8	6
17	Local random phase approximation with projected oscillator orbitals. Theoretical Chemistry Accounts, 2015, 134, 1.	1.4	3
18	Random phase approximation in projected oscillator orbitals. Theoretical Chemistry Accounts, 2018, 137, 1.	1.4	0