Bastien Mussard

List of Publications by Year
in descending order

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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	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
2	Recent developments in the P<scp>y</scp>SCF program package. Journal of Chemical Physics, 2020, 153, 024109.	3.0	388
3	Range-separated double-hybrid density-functional theory with coupled-cluster and random-phase approximations. Journal of Chemical Physics, 2019, 151, 074102.	3.0	20
4	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
5	Random phase approximation in projected oscillator orbitals. Theoretical Chemistry Accounts, 2018, 137, 1.	1.4	0
6	Time-Dependent Linear-Response Variational Monte Carlo. Advances in Quantum Chemistry, 2018, 76, 255-270.	0.8	6
7	Cheap and Near Exact CASSCF with Large Active Spaces. Journal of Chemical Theory and Computation, 2017, 13, 5468-5478.	5.3	131
8	Fractional-charge and fractional-spin errors in range-separated density-functional theory. Molecular Physics, 2017, 115, 161-173.	1.7	21
9	Self-consistent double-hybrid density-functional theory using the optimized-effective-potential method. Journal of Chemical Physics, 2016, 145, 144102.	3.0	25
10	Gaussian continuum basis functions for calculating high-harmonic generation spectra. International Journal of Quantum Chemistry, 2016, 116, 1120-1131.	2.0	32
11	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
12	Local random phase approximation with projected oscillator orbitals. Theoretical Chemistry Accounts, 2015, 134, 1.	1.4	3
13	Basis convergence of range-separated density-functional theory. Journal of Chemical Physics, 2015, 142, 074107.	3.0	40
14	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
15	Relationships between charge density response functions, exchange holes and localized orbitals. Computational and Theoretical Chemistry, 2015, 1053, 44-52.	2.5	6
16	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
17	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
18	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