Hilke Bahmann

List of Publications by Year
in descending order

19	874	516710 16	794594 19
papers	citations	h-index	g-index

20	20	20	460
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Validation of local hybrid functionals for TDDFT calculations of electronic excitation energies. Journal of Chemical Physics, 2016, 144, 074106.	3.0	117
2	A thermochemically competitive local hybrid functional without gradient corrections. Journal of Chemical Physics, 2007, 126, 011103.	3.0	113
3	Local hybrid functionals: An assessment for thermochemical kinetics. Journal of Chemical Physics, 2007, 127, 194102.	3.0	87
4	Electron Transmission through Aromatic Molecules. Journal of Chemical Theory and Computation, 2006, 2, 1291-1297.	5.3	74
5	Efficient Self-Consistent Implementation of Local Hybrid Functionals. Journal of Chemical Theory and Computation, 2015, 11, 1540-1548.	5.3	69
6	From local hybrid functionals to â€œlocalized local hybridâ€•potentials: Formalism and thermochemical tests. Journal of Chemical Physics, 2006, 124, 204102.	3.0	64
7	Efficient Semi-numerical Implementation of Global and Local Hybrid Functionals for Time-Dependent Density Functional Theory. Journal of Chemical Theory and Computation, 2015, 11, 4226-4237.	5.3	54
8	Local Hybrid Functionals with an Explicit Dependence on Spin Polarization. Journal of Physical Chemistry A, 2009, 113, 11898-11906.	2.5	43
9	Communication: A non-empirical correlation factor model for the exchange-correlation energy. Journal of Chemical Physics, 2014, 141, 111102.	3.0	34
10	Implementation of Molecular Gradients for Local Hybrid Density Functionals Using Seminumerical Integration Techniques. Journal of Chemical Theory and Computation, 2016, 12, 4254-4262.	5.3	33
11	Evaluation of a Combination of Local Hybrid Functionals with DFT-D3 Corrections for the Calculation of Thermochemical and Kinetic Data. Journal of Physical Chemistry A, 2011, 115, 8990-8996.	2.5	32
12	Design of exchange-correlation functionals through the correlation factor approach. Journal of Chemical Physics, 2015, 143, 144102.	3.0	30
13	Generalized-gradient exchange-correlation hole obtained from a correlation factor ansatz. Journal of Chemical Physics, 2008, 128, 234104.	3.0	27
14	The shell model for the exchange-correlation hole in the strong-correlation limit. Journal of Chemical Physics, 2016, 145, 124104.	3.0	27
15	Construction of exchange-correlation functionals through interpolation between the non-interacting and the strong-correlation limit. Journal of Chemical Physics, 2015, 143, 124103.	3.0	23
16	Self-Consistent Implementation of Hybrid Functionals with Local Range Separation. Journal of Chemical Theory and Computation, 2020, 16, 953-963.	5.3	19
17	Hybrid functionals with local range separation: Accurate atomization energies and reaction barrier heights. Journal of Chemical Physics, 2022, 156, 104109.	3.0	10
18	Unexpectedly flexible graphene nanoribbons with a polyacene ladder skeleton. Journal of Materials Chemistry C, 2021, 9, 16208-16216.	5.5	9

#	Article	IF	Citations
19	On Occupied-orbital Dependent Exchange-correlation Functionals: From Local Hybrids to Beckeâ€™s B05 Model. Zeitschrift Fur Physikalische Chemie, 2010, 224, 545-567.	2.8	8