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	Hybrid functionals with local range separation: Accurate atomization energies and reaction barrier heights. Journal of Chemical Physics, 2022, 156, 104109.	3.0	10
2	Unexpectedly flexible graphene nanoribbons with a polyacene ladder skeleton. Journal of Materials Chemistry C, 2021, 9, 16208-16216.	5.5	9
3	Self-Consistent Implementation of Hybrid Functionals with Local Range Separation. Journal of Chemical Theory and Computation, 2020, 16, 953-963.	5.3	19
4	Validation of local hybrid functionals for TDDFT calculations of electronic excitation energies. Journal of Chemical Physics, 2016, 144, 074106.	3.0	117
5	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
6	The shell model for the exchange-correlation hole in the strong-correlation limit. Journal of Chemical Physics, 2016, 145, 124104.	3.0	27
7	Design of exchange-correlation functionals through the correlation factor approach. Journal of Chemical Physics, 2015, 143, 144102.	3.0	30
8	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
9	Efficient Self-Consistent Implementation of Local Hybrid Functionals. Journal of Chemical Theory and Computation, 2015, 11, 1540-1548.	5.3	69
10	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
11	Communication: A non-empirical correlation factor model for the exchange-correlation energy. Journal of Chemical Physics, 2014, 141, 111102.	3.0	34
12	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
13	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
14	Local Hybrid Functionals with an Explicit Dependence on Spin Polarization. Journal of Physical Chemistry A, 2009, 113, 11898-11906.	2.5	43
15	Generalized-gradient exchange-correlation hole obtained from a correlation factor ansatz. Journal of Chemical Physics, 2008, 128, 234104.	3.0	27
16	A thermochemically competitive local hybrid functional without gradient corrections. Journal of Chemical Physics, 2007, 126, 011103.	3.0	113
17	Local hybrid functionals: An assessment for thermochemical kinetics. Journal of Chemical Physics, 2007, 127, 194102.	3.0	87
18	Electron Transmission through Aromatic Molecules. Journal of Chemical Theory and Computation, 2006, 2, 1291-1297.	5.3	74

#	Article	IF	Citations
19	From local hybrid functionals to â€œlocalized local hybridâ€•potentials: Formalism and thermochemical tests. Journal of Chemical Physics, 2006, 124, 204102.	3.0	64