Robert van Meer

List of Publications by Year in Descending Order

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Version: 2024-04-28

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

13 papers	661 citations	8 h-index	13 g-index
13 ext. papers	734 ext. citations	3 avg, IF	4.18 L-index

#	Paper	IF	Citations
13	Approximate density matrix functionals applied to hetero-atomic bond dissociation. *European Physical Journal B*, **2020**, 93, 1	1.2	1
12	Combining density-based dynamical correlation with a reduced-density-matrix strong-correlation description. *Physical Review A*, **2020**, 102,	2.6	2
11	Reproducing benchmark potential energy curves of molecular bond dissociation with small complete active space aided with density and density-matrix functional corrections. *Journal of Chemical Physics*, **2019**, 151, 164122	3.9	6
10	Electron correlation energy with a combined complete active space and corrected density-functional approach in a small basis versus the reference complete basis set limit: A close agreement. *Chemical Physics Letters*, **2019**, 716, 227-230	2.5	7
9	A non-JKL density matrix functional for intergeminal correlation between closed-shell geminals from analysis of natural orbital configuration interaction expansions. *Journal of Chemical Physics*, **2018**, 148, 104102	3.9	14
8	Bond-breaking excitations with diverging coupling matrix of response density functional theory from highest-level functionals. *European Physical Journal B*, **2018**, 91, 1	1.2	0
7	Efficient evaluation of electron correlation along the bond-dissociation coordinate in the ground and excited ionic states with dynamic correlation suppression and enhancement functions of the on-top pair density. *Physical Review A*, **2018**, 98,	2.6	16
6	The one-electron description of excited states: Natural excitation orbitals of density matrix theory and Kohn□Sham orbitals of density functional theory as ideal orbitals. *Chemical Physics Letters*, **2015**, 639, 315-319	2.5	8
5	Physical Meaning of Virtual Kohn-Sham Orbitals and Orbital Energies: An Ideal Basis for the Description of Molecular Excitations. *Journal of Chemical Theory and Computation*, **2014**, 10, 4432-41	6.4	155
4	The density matrix functional approach to electron correlation: dynamic and nondynamic correlation along the full dissociation coordinate. *Journal of Chemical Physics*, **2014**, 140, 214105	3.9	24
3	The Kohn-Sham gap, the fundamental gap and the optical gap: the physical meaning of occupied and virtual Kohn-Sham orbital energies. *Physical Chemistry Chemical Physics*, **2013**, 15, 16408-25	3.6	297
2	M□ssbauer spectroscopy for heavy elements: a relativistic benchmark study of mercury. *Theoretical Chemistry Accounts*, **2011**, 129, 631-650	1.9	57
1	Stereodirecting effect of the pyranosyl C-5 substituent in glycosylation reactions. *Journal of Organic Chemistry*, **2009**, 74, 4982-91	4.2	74