

Narbe Mardirossian

List of Publications by Year in descending order

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Version: 2024-02-01

21
papers

7,124
citations

471061

17
h-index

642321

23
g-index

24
all docs

24
docs citations

24
times ranked

6745
citing authors

#	ARTICLE	IF	CITATIONS
1	Advances in molecular quantum chemistry contained in the Q-Chem 4 program package. <i>Molecular Physics</i> , 2015, 113, 184-215.	0.8	2,561
2	Thirty years of density functional theory in computational chemistry: an overview and extensive assessment of 200 density functionals. <i>Molecular Physics</i> , 2017, 115, 2315-2372.	0.8	1,401
3	ũB97X-V: A 10-parameter, range-separated hybrid, generalized gradient approximation density functional with nonlocal correlation, designed by a survival-of-the-fittest strategy. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 9904.	1.3	616
4	ũB97M-V: A combinatorially optimized, range-separated hybrid, meta-GGA density functional with VV10 nonlocal correlation. <i>Journal of Chemical Physics</i> , 2016, 144, 214110.	1.2	595
5	Software for the frontiers of quantum chemistry: An overview of developments in the Q-Chem 5 package. <i>Journal of Chemical Physics</i> , 2021, 155, 084801.	1.2	518
6	How Accurate Are the Minnesota Density Functionals for Noncovalent Interactions, Isomerization Energies, Thermochemistry, and Barrier Heights Involving Molecules Composed of Main-Group Elements?. <i>Journal of Chemical Theory and Computation</i> , 2016, 12, 4303-4325.	2.3	355
7	Mapping the genome of meta-generalized gradient approximation density functionals: The search for B97M-V. <i>Journal of Chemical Physics</i> , 2015, 142, 074111.	1.2	305
8	Survival of the most transferable at the top of Jacob's ladder: Defining and testing the B97M(2) double hybrid density functional. <i>Journal of Chemical Physics</i> , 2018, 148, 241736.	1.2	136
9	Ab initio molecular dynamics simulations of liquid water using high quality meta-GGA functionals. <i>Chemical Science</i> , 2017, 8, 3554-3565.	3.7	95
10	Benchmark results for empirical post-GGA functionals: Difficult exchange problems and independent tests. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 19325.	1.3	83
11	Characterizing and Understanding the Remarkably Slow Basis Set Convergence of Several Minnesota Density Functionals for Intermolecular Interaction Energies. <i>Journal of Chemical Theory and Computation</i> , 2013, 9, 4453-4461.	2.3	83
12	Use of the rVV10 Nonlocal Correlation Functional in the B97M-V Density Functional: Defining B97M-rV and Related Functionals. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 35-40.	2.1	78
13	The Performance of Density Functionals for Sulfate-Water Clusters. <i>Journal of Chemical Theory and Computation</i> , 2013, 9, 1368-1380.	2.3	69
14	Toward chemical accuracy in the description of ion-water interactions through many-body representations. Alkali-water dimer potential energy surfaces. <i>Journal of Chemical Physics</i> , 2017, 147, 161715.	1.2	57
15	Fast, accurate evaluation of exact exchange: The occ-RI-K algorithm. <i>Journal of Chemical Physics</i> , 2015, 143, 024113.	1.2	44
16	Exploring the limit of accuracy for density functionals based on the generalized gradient approximation: Local, global hybrid, and range-separated hybrid functionals with and without dispersion corrections. <i>Journal of Chemical Physics</i> , 2014, 140, 18A527.	1.2	34
17	Lowering of the complexity of quantum chemistry methods by choice of representation. <i>Journal of Chemical Physics</i> , 2018, 148, 044106.	1.2	22
18	Self-consistent implementation of meta-GGA functionals for the ONETEP linear-scaling electronic structure package. <i>Journal of Chemical Physics</i> , 2016, 145, 204114.	1.2	18

#	ARTICLE	IF	CITATIONS
19	Assessment of Density Functional Theory in Predicting Interaction Energies between Water and Polycyclic Aromatic Hydrocarbons: from Water on Benzene to Water on Graphene. <i>Journal of Chemical Theory and Computation</i> , 2019, 15, 2359-2374.	2.3	18
20	Approaching the basis set limit for DFT calculations using an environment-adapted minimal basis with perturbation theory: Formulation, proof of concept, and a pilot implementation. <i>Journal of Chemical Physics</i> , 2016, 145, 044109.	1.2	16
21	Note: The performance of new density functionals for a recent blind test of non-covalent interactions. <i>Journal of Chemical Physics</i> , 2016, 145, 186101.	1.2	11