

CITATION REPORT

List of articles citing

Inclusion of exact exchange for self-interaction corrected H3 density functional potential energy surface

DOI: 10.1007/s002140050318

Theoretical Chemistry Accounts, 1998, 99, 158-165.

Source: <https://exaly.com/paper-pdf/29088479/citation-report.pdf>

Version: 2024-04-28

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.

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

#	Paper	IF	Citations
60	Benchmark calculations of chemical reactions in density functional theory: Comparison of the accurate Kohn-Sham solution with generalized gradient approximations for the H ₂ +H and H ₂ +H ₂ reactions. <i>Journal of Chemical Physics</i> , 1999 , 111, 4056-4067	3.9	68
59	Flexible geometry of methyl amine. <i>Vibrational Spectroscopy</i> , 2000 , 22, 127-141	2.1	2
58	The Hartree product and the description of local and global quantities in atomic systems: A study within Kohn-Sham theory. <i>Journal of Chemical Physics</i> , 2000 , 112, 1150-1157	3.9	21
57	The optimized effective potential and the self-interaction correction in density functional theory: Application to molecules. <i>Journal of Chemical Physics</i> , 2000 , 112, 7880-7890	3.9	91
56	Comparison of the Accurate Kohn-Sham Solution with the Generalized Gradient Approximations (GGAs) for the SN ₂ Reaction F ⁻ + CH ₃ F → FCH ₃ + F ⁻ : A Qualitative Rule To Predict Success or Failure of GGAs. <i>Journal of Physical Chemistry A</i> , 2000 , 104, 8558-8565	2.8	147
55	The Failure of Generalized Gradient Approximations (GGAs) and Meta-GGAs for the Two-Center Three-Electron Bonds in He ₂ ⁺ , (H ₂ O) ₂ ⁺ , and (NH ₃) ₂ ⁺ . <i>Journal of Physical Chemistry A</i> , 2001 , 105, 9211-9218	2.8	78
54	Curing difficult cases in magnetic properties prediction with self-interaction corrected density functional theory. <i>Journal of Chemical Physics</i> , 2001 , 115, 26-42	3.9	118
53	Improving difficult reaction barriers with self-interaction corrected density functional theory. <i>Journal of Chemical Physics</i> , 2002 , 116, 7806-7813	3.9	120
52	Rate-equilibrium relationships in hydride transfer reactions: the role of intrinsic barriers. <i>Journal of the American Chemical Society</i> , 2002 , 124, 4084-92	16.4	47
51	Electron correlation and the self-interaction error of density functional theory. <i>Molecular Physics</i> , 2002 , 100, 1771-1790	1.7	184
50	The role of the HOOO(-) anion in the ozonation of alcohols: large differences in the gas-phase and in the solution-phase mechanism. <i>Journal of the American Chemical Society</i> , 2003 , 125, 9395-402	16.4	23
49	The impact of the self-interaction error on the density functional theory description of dissociating radical cations: ionic and covalent dissociation limits. <i>Journal of Chemical Physics</i> , 2004 , 120, 524-39	3.9	128
48	Theoretical study of hydrogenation of thiouracils and their base pairs with adenine. <i>International Journal of Quantum Chemistry</i> , 2004 , 99, 841-853	2.1	7
47	Effect of the self-interaction error for three-electron bonds: On the development of new exchange-correlation functionals. <i>Physical Chemistry Chemical Physics</i> , 2004 , 6, 1096-1112	3.6	103
46	Performance of Density Functionals for Calculating Barrier Heights of Chemical Reactions Relevant to Astrophysics. <i>Journal of Physical Chemistry A</i> , 2004 , 108, 7621-7636	2.8	78
45	Improved Description of Chemical Barriers with Generalized Gradient Approximations (GGAs) and Meta-GGAs. <i>Journal of Physical Chemistry A</i> , 2004 , 108, 4459-4469	2.8	46
44	Effect of the Perdew-Zunger self-interaction correction on the thermochemical performance of approximate density functionals. <i>Journal of Chemical Physics</i> , 2004 , 121, 8187-93	3.9	134

43	Ionization potentials and electron affinities in the Perdew-Zunger self-interaction corrected density-functional theory. <i>Journal of Chemical Physics</i> , 2005 , 122, 184107	3.9	88
42	Quantifying the effects of the self-interaction error in DFT: when do the delocalized states appear?. <i>Journal of Chemical Physics</i> , 2005 , 122, 224103	3.9	205
41	Binding energy curves from nonempirical density functionals. I. Covalent bonds in closed-shell and radical molecules. <i>Journal of Physical Chemistry A</i> , 2005 , 109, 11006-14	2.8	53
40	Prescription for the design and selection of density functional approximations: more constraint satisfaction with fewer fits. <i>Journal of Chemical Physics</i> , 2005 , 123, 62201	3.9	658
39	Scaling down the Perdew-Zunger self-interaction correction in many-electron regions. <i>Journal of Chemical Physics</i> , 2006 , 124, 94108	3.9	108
38	Kinetics of triscarbonato uranyl reduction by aqueous ferrous iron: a theoretical study. <i>Journal of Physical Chemistry A</i> , 2006 , 110, 9691-701	2.8	34
37	Spurious fractional charge on dissociated atoms: pervasive and resilient self-interaction error of common density functionals. <i>Journal of Chemical Physics</i> , 2006 , 125, 194112	3.9	349
36	Density functionals that are one- and two- are not always many-electron self-interaction-free, as shown for H ₂ ⁺ , He ₂ ⁺ , LiH ⁺ , and Ne ₂ ⁺ . <i>Journal of Chemical Physics</i> , 2007 , 126, 104102	3.9	248
35	Range separated hybrid density functional with long-range Hartree-Fock exchange applied to solids. <i>Journal of Chemical Physics</i> , 2007 , 127, 054101	3.9	86
34	A Review of Density Functional Theory Quantum Mechanics as Applied to Pharmaceutically Relevant Systems. <i>Current Computer-Aided Drug Design</i> , 2007 , 3, 290-296	1.4	17
33	One-parameter optimization of a nonempirical meta-generalized-gradient-approximation for the exchange-correlation energy. <i>Physical Review A</i> , 2007 , 76,	2.6	37
32	Second step of hydrolytic dehalogenation in haloalkane dehalogenase investigated by QM/MM methods. <i>Proteins: Structure, Function and Bioinformatics</i> , 2008 , 70, 707-17	4.2	24
31	Orbital-dependent density functionals: Theory and applications. <i>Reviews of Modern Physics</i> , 2008 , 80, 3-60	40.5	941
30	Range separation and local hybridization in density functional theory. <i>Journal of Physical Chemistry A</i> , 2008 , 112, 12530-42	2.8	81
29	Theoretical investigation of the electronic asymmetry of the special pair cation radical in the photosynthetic type-II reaction center. <i>Journal of Physical Chemistry B</i> , 2008 , 112, 13923-33	3.4	25
28	Self-interaction correction and the optimized effective potential. <i>Journal of Chemical Physics</i> , 2008 , 129, 014110	3.9	68
27	Many-electron self-interaction and spin polarization errors in local hybrid density functionals. <i>Journal of Chemical Physics</i> , 2010 , 133, 134116	3.9	78
26	An Assessment of Density Functional Methods for Potential Energy Curves of Nonbonded Interactions: The XYG3 and B97-D Approximations. <i>Journal of Chemical Theory and Computation</i> , 2010 , 6, 727-34	6.4	86

25	How Well Can Kohn-Sham DFT Describe the HO ₂ + O ₃ Reaction?. <i>Journal of Chemical Theory and Computation</i> , 2010 , 6, 2751-61	6.4	20
24	Modeling Charge Resonance in Cationic Molecular Clusters: Combining DFT-Tight Binding with Configuration Interaction. <i>Journal of Chemical Theory and Computation</i> , 2011 , 7, 44-55	6.4	42
23	A DFT study of H-isomerisation in alkoxy-, alkylperoxy- and alkyl radicals: Some implications for radical chain reactions in polymer systems. <i>Polymer Degradation and Stability</i> , 2011 , 96, 660-669	4.7	7
22	Using complex degrees of freedom in the Kohn-Sham self-interaction correction. <i>Physical Review A</i> , 2012 , 85,	2.6	45
21	Extensions of DFTB to investigate molecular complexes and clusters. <i>Physica Status Solidi (B): Basic Research</i> , 2012 , 249, 245-258	1.3	29
20	Theoretical Toolkits for Inorganic and Bioinorganic Complexes: Their Applications and Insights. 2013 , 1-57		1
19	Surface Reaction of Acetylene with H-Terminated Silicon Surfaces. A Theoretical Study from Hybrid DFT-D2 Periodic Simulations. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 15130-15138	3.8	6
18	Variational, Self-Consistent Implementation of the Perdew-Zunger Self-Interaction Correction with Complex Optimal Orbitals. <i>Journal of Chemical Theory and Computation</i> , 2014 , 10, 5324-37	6.4	59
17	Comparison of ab Initio, DFT, and Semiempirical QM/MM Approaches for Description of Catalytic Mechanism of Hairpin Ribozyme. <i>Journal of Chemical Theory and Computation</i> , 2014 , 10, 1608-22	6.4	48
16	Correlated Ab Initio and Density Functional Studies on H ₂ Activation by FeO(.). <i>Journal of Chemical Theory and Computation</i> , 2014 , 10, 3807-20	6.4	75
15	Accurate Diels-Alder reaction energies from efficient density functional calculations. <i>Journal of Chemical Theory and Computation</i> , 2015 , 11, 2879-88	6.4	17
14	Modelling potential photovoltaic absorbers Cu ₃ MCh ₄ (M = V, Nb, Ta; Ch = S, Se, Te) using density functional theory. <i>Journal of Physics Condensed Matter</i> , 2016 , 28, 175801	1.8	10
13	Assessing the potential of Mg-doped CrO ₂ as a novel p-type transparent conducting oxide. <i>Journal of Physics Condensed Matter</i> , 2016 , 28, 125501	1.8	16
12	Mechanisms of Formation of H, HO, and Water and of Water Desorption in the Early Stages of Cellulose Pyrolysis. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 12168-12176	3.8	10
11	A step in the direction of resolving the paradox of Perdew-Zunger self-interaction correction. <i>Journal of Chemical Physics</i> , 2019 , 151, 214108	3.9	34
10	The Fermi-Löwdin self-interaction correction for ionization energies of organic molecules. <i>Journal of Chemical Physics</i> , 2020 , 153, 184303	3.9	9
9	Improvements in the orbitalwise scaling down of Perdew-Zunger self-interaction correction in many-electron regions. <i>Journal of Chemical Physics</i> , 2020 , 152, 174112	3.9	17
8	Wood cellulose as a hydrogen storage material. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 14907-14914	3.4	14

7	Local self-interaction correction method with a simple scaling factor. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 2406-2418	3.6	9
6	Implementation of Perdew-Zunger self-interaction correction in real space using Fermi-Löwdin orbitals. <i>Journal of Chemical Physics</i> , 2021 , 154, 084112	3.9	4
5	How well do self-interaction corrections repair the overestimation of static polarizabilities in density functional calculations?. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 18678-18685	3.6	6
4	Density-Functional Theory in External Electric and Magnetic Fields. <i>Modern Aspects of Electrochemistry</i> , 2009 , 341-408		1
3	Density-functional theory models of Fe(IV)O reactivity in metal-organic frameworks: self-interaction error, spin delocalisation and the role of hybrid exchange. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 12821-12830	3.6	5
2	Kohn-Sham LCAO Method for Periodic Systems. <i>Springer Series in Solid-state Sciences</i> , 2012 , 251-301	0.4	
1	Delocalization error: The greatest outstanding challenge in density-functional theory. <i>Wiley Interdisciplinary Reviews: Computational Molecular Science</i> ,	7.9	6