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## Regularized Gradient Expansion for Atoms, Molecules, and Solids

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Journal of Chemical Theory and Computation, 2009, 5, 763-9.

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#	Paper	IF	Citations
35	Insight into the performance of GGA functionals for solid-state calculations. <i>Physical Review B</i> , <b>2009</b> , 80,	3.3	59
34	Unified Inter- and Intramolecular Dispersion Correction Formula for Generalized Gradient Approximation Density Functional Theory. <i>Journal of Chemical Theory and Computation</i> , <b>2009</b> , 5, 2950-8	6.4	70
33	Generalized gradient approximation bridging the rapidly and slowly varying density regimes: A PBE-like functional for hybrid interfaces. <i>Physical Review B</i> , <b>2010</b> , 82,	3.3	46
32	Stability of Hydrocarbons of the Polyhedrane Family Containing Bridged CH Groups: A Case of Failure of the Colle-Salvetti Correlation Density Functionals. <i>Journal of Chemical Theory and Computation</i> , <b>2010</b> , 6, 3442-55	6.4	16
31	Global Hybrid Functionals: A Look at the Engine under the Hood. <i>Journal of Chemical Theory and Computation</i> , <b>2010</b> , 6, 3688-3703	6.4	77
30	Iron porphyrins with different imidazole ligands. A theoretical comparative study. <i>Journal of Physical Chemistry A</i> , <b>2010</b> , 114, 9554-69	2.8	45
29	Construction of an optimal GGA functional for molecules and solids. <i>Physical Review B</i> , <b>2011</b> , 83,	3.3	71
28	Two-Dimensional Scan of the Performance of Generalized Gradient Approximations with Perdew-Burke-Ernzerhof-Like Enhancement Factor. <i>Journal of Chemical Theory and Computation</i> , <b>2011</b> , 7, 3548-59	6.4	46
27	Improving atomization energies of molecules and solids with a spin-dependent gradient correction from one-electron density analysis. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	23
26	Correlation energy functional from jellium surface analysis. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	36
25	FeP(Im)-AB Bonding Energies Evaluated with A Large Number of Density Functionals (P = porphine, Im = imidazole, AB = CO, NO, and O(2)). <i>Molecular Physics</i> , <b>2011</b> , 109, 2035-2048	1.7	11
24	Nonspherical model density matrices for Rung 3.5 density functionals. <i>Journal of Chemical Physics</i> , <b>2012</b> , 136, 024111	3.9	18
23	Libxc: A library of exchange and correlation functionals for density functional theory. <i>Computer Physics Communications</i> , <b>2012</b> , 183, 2272-2281	4.2	323
22	Exchange-Correlation Functional with Good Accuracy for Both Structural and Energetic Properties while Depending Only on the Density and Its Gradient. <i>Journal of Chemical Theory and Computation</i> , <b>2012</b> , 8, 2310-9	6.4	232
21	Laplacian-based models for the exchange energy. <i>International Journal of Quantum Chemistry</i> , <b>2012</b> , 112, 3796-3806	2.1	17
20	Testing the broad applicability of the PBEint GGA functional and its one-parameter hybrid form. <i>International Journal of Quantum Chemistry</i> , <b>2013</b> , 113, 673-682	2.1	29
19	Assessing modern GGA functionals for solids. <i>Journal of Molecular Modeling</i> , <b>2013</b> , 19, 2791-6	2	13

18	Establishing the Accuracy of Broadly Used Density Functionals in Describing Bulk Properties of Transition Metals. <i>Journal of Chemical Theory and Computation</i> , <b>2013</b> , 9, 1631-40	6.4	153
17	mBEEF: an accurate semi-local Bayesian error estimation density functional. <i>Journal of Chemical Physics</i> , <b>2014</b> , 140, 144107	3.9	101
16	Optimized Exchange and Correlation Semilocal Functional for the Calculation of Energies of Formation. <i>Journal of Chemical Theory and Computation</i> , <b>2015</b> , 11, 3844-50	6.4	18
15	Accurate Diels-Alder reaction energies from efficient density functional calculations. <i>Journal of Chemical Theory and Computation</i> , <b>2015</b> , 11, 2879-88	6.4	17
14	Rungs 1 to 4 of DFT Jacob's ladder: Extensive test on the lattice constant, bulk modulus, and cohesive energy of solids. <i>Journal of Chemical Physics</i> , <b>2016</b> , 144, 204120	3.9	142
13	Visualization and analysis of the Kohn-Sham kinetic energy density and its orbital-free description in molecules. <i>Journal of Chemical Physics</i> , <b>2016</b> , 144, 084107	3.9	22
12	A power series revisit of the PBE exchange density-functional approximation: The PBEpow model. <i>Journal of Chemical Physics</i> , <b>2016</b> , 145, 244102	3.9	3
11	Semiclassical atom theory applied to solid-state physics. <i>Physical Review B</i> , <b>2016</b> , 93,	3.3	49
10	Gradient-regulated connection-based correction for the PBE exchange: the PBEtrans model. <i>Molecular Physics</i> , <b>2016</b> , 114, 1059-1065	1.7	3
9	Effect of exchange-correlation functionals on the density functional theory simulation of phase transformation of fast-ion conductors: A case study in the Li garnet oxide Li <sub>7</sub> La <sub>3</sub> Zr <sub>2</sub> O <sub>12</sub> . <i>Computational Materials Science</i> , <b>2017</b> , 134, 132-136	3.2	0
8	Electron Density Errors and Density-Driven Exchange-Correlation Energy Errors in Approximate Density Functional Calculations. <i>Journal of Chemical Theory and Computation</i> , <b>2017</b> , 13, 4753-4764	6.4	33
7	Seeking an accurate generalized-gradient approximation functional for high pressure molecular fluids. <i>Journal of Applied Physics</i> , <b>2017</b> , 122, 185902	2.5	6
6	Simple Modifications of the SCAN Meta-Generalized Gradient Approximation Functional. <i>Journal of Chemical Theory and Computation</i> , <b>2018</b> , 14, 2469-2479	6.4	23
5	Fitting a round peg into a round hole: Asymptotically correcting the generalized gradient approximation for correlation. <i>Journal of Chemical Physics</i> , <b>2018</b> , 149, 084116	3.9	21
4	Control of surface reactivity towards unsaturated C C bonds and H over Ni-based intermetallic compounds in semi-hydrogenation of acetylene. <i>Journal of Catalysis</i> , <b>2019</b> , 372, 151-162	7.3	9
3	Generalized gradient approximations with local parameters. <i>Physical Review B</i> , <b>2020</b> , 102,	3.3	3
2	Accurate and Numerically Efficient rSCAN Meta-Generalized Gradient Approximation. <i>Journal of Physical Chemistry Letters</i> , <b>2020</b> , 11, 8208-8215	6.4	87
1	Effect of bulk and surface composition of Ni <sub>1-x</sub> Ga intermetallic compound catalysts in propane steam/wet reforming: Origins of nearly ideal experimental product selectivity. <b>2023</b> , 417, 260-273		0

