

Szymon Åmiga

List of Publications by Year in descending order

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docs citations

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times ranked

240
citing authors

#	ARTICLE	IF	CITATIONS
1	Laplacian-dependent models of the kinetic energy density: Applications in subsystem density functional theory with meta-generalized gradient approximation functionals. <i>Journal of Chemical Physics</i> , 2017, 146, 064105.	3.0	44
2	Comparing <i>ab initio</i> density-functional and wave function theories: The impact of correlation on the electronic density and the role of the correlation potential. <i>Journal of Chemical Physics</i> , 2011, 135, 114111.	3.0	39
3	Orbital-dependent second-order scaled-opposite-spin correlation functionals in the optimized effective potential method. <i>Journal of Chemical Physics</i> , 2014, 141, 024113.	3.0	35
4	Jellium-with-gap model applied to semilocal kinetic functionals. <i>Physical Review B</i> , 2017, 95, .	3.2	26
5	Investigation of the Exchange-Correlation Potentials of Functionals Based on the Adiabatic Connection Interpolation. <i>Journal of Chemical Theory and Computation</i> , 2019, 15, 1006-1015.	5.3	26
6	A density difference based analysis of orbital-dependent exchange-correlation functionals. <i>Molecular Physics</i> , 2014, 112, 700-710.	1.7	25
7	Self-consistent double-hybrid density-functional theory using the optimized-effective-potential method. <i>Journal of Chemical Physics</i> , 2016, 145, 144102.	3.0	25
8	Accurate Kohn-Sham ionization potentials from scaled-opposite-spin second-order optimized effective potential methods. <i>Journal of Computational Chemistry</i> , 2016, 37, 2081-2090.	3.3	24
9	Subsystem density functional theory with meta-generalized gradient approximation exchange-correlation functionals. <i>Journal of Chemical Physics</i> , 2015, 142, 154121.	3.0	23
10	Unveiling the Physics Behind Hybrid Functionals. <i>Journal of Physical Chemistry A</i> , 2020, 124, 5606-5614.	2.5	23
11	Spin-Component-Scaled \hat{T}^2 MP2 Parametrization: Toward a Simple and Reliable Method for Ionization Energies. <i>Journal of Chemical Theory and Computation</i> , 2018, 14, 4780-4790.	5.3	21
12	Improved solid stability from a screened range-separated hybrid functional by satisfying semiclassical atom theory and local density linear response. <i>Physical Review B</i> , 2020, 102, .	3.2	19
13	The <i>ab initio</i> density functional theory applied for spin-polarized calculations. <i>Journal of Chemical Physics</i> , 2020, 152, 054109.	3.0	19
14	Self-Consistent Range-Separated Density-Functional Theory with Second-Order Perturbative Correction via the Optimized-Effective-Potential Method. <i>Journal of Chemical Theory and Computation</i> , 2020, 16, 211-223.	5.3	15
15	Accurate density functional made more versatile. <i>Journal of Chemical Physics</i> , 2021, 155, 024103.	3.0	15
16	Modified Interaction-Strength Interpolation Method as an Important Step toward Self-Consistent Calculations. <i>Journal of Chemical Theory and Computation</i> , 2020, 16, 4983-4992.	5.3	14
17	Methods to generate reference total and Pauli kinetic potentials. <i>Physical Review B</i> , 2020, 101, .	3.2	14
18	Insights from the density functional performance of water and water-solid interactions: SCAN in relation to other meta-GGAs. <i>Journal of Chemical Physics</i> , 2020, 153, 214116.	3.0	14

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19	The Role of the Reduced Laplacian Renormalization in the Kinetic Energy Functional Development. <i>Computation</i> , 2019, 7, 65.	2.0	13
20	Improving the applicability of the Pauli kinetic energy density based semilocal functional for solids. <i>New Journal of Physics</i> , 2021, 23, 063007.	2.9	13
21	Generalizing Double-Hybrid Density Functionals: Impact of Higher-Order Perturbation Terms. <i>Journal of Chemical Theory and Computation</i> , 2020, 16, 7413-7430.	5.3	12
22	Density-Dependent Exchange–Correlation Potentials Derived From highly Accurate Ab initio Calculations. <i>Advances in Quantum Chemistry</i> , 2014, 68, 125-151.	0.8	11
23	Approximate solution of coupled cluster equations: application to the coupled cluster doubles method and non-covalent interacting systems. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 30249-30260.	2.8	9
24	Plasmon Couplings from Subsystem Time-Dependent Density Functional Theory. <i>Journal of Physical Chemistry A</i> , 2021, 125, 7246-7259.	2.5	9
25	The Correlation Effects in Density Functional Theory Along the Dissociation Path. <i>Advances in Quantum Chemistry</i> , 2016, 73, 263-283.	0.8	7
26	Random-Phase Approximation in Many-Body Noncovalent Systems: Methane in a Dodecahedral Water Cage. <i>Journal of Chemical Theory and Computation</i> , 2021, 17, 804-817.	5.3	6
27	Density-Based Analysis of Spin-Resolved MP2 Method. <i>Advances in Quantum Chemistry</i> , 2018, , 279-293.	0.8	4
28	Benchmark test of a dispersion corrected revised Tao–Mo semilocal functional for thermochemistry, kinetics, and noncovalent interactions of molecules and solids. <i>Journal of Chemical Physics</i> , 2021, 155, 114102.	3.0	4
29	From simple molecules to nanotubes. Reliable predictions of ionization potentials from the \hat{T}^m MP2-SCS methods. <i>New Journal of Physics</i> , 2020, 22, 083084.	2.9	4
30	Solid-state performance of a meta-GGA screened hybrid density functional constructed from Pauli kinetic enhancement factor dependent semilocal exchange hole. <i>Journal of Chemical Physics</i> , 0, , .	3.0	4
31	Boosting the OEP2-sc method with spin-component scaling. <i>Molecular Physics</i> , 2022, 120, .	1.7	2
32	OEP Orbitals as a Reference for Ab Initio Many-Body Calculations. <i>Advances in Quantum Chemistry</i> , 2014, 68, 105-123.	0.8	1