

Paola Gori-Giorgi

List of Publications by Year in descending order

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79
papers

2,843
citations

172457

29
h-index

175258

52
g-index

85
all docs

85
docs citations

85
times ranked

1113
citing authors

#	ARTICLE	IF	CITATIONS
1	Gradient Expansions for the Large-Coupling Strength Limit of the MÅllerâ€Plesset Adiabatic Connection. <i>Journal of Chemical Theory and Computation</i> , 2022, 18, 1584-1594.	5.3	11
2	Dispersion without Many-Body Density Distortion: Assessment on Atoms and Small Molecules. <i>Journal of Chemical Theory and Computation</i> , 2021, 17, 2283-2293.	5.3	1
3	Noncovalent Interactions from Models for the MÅllerâ€Plesset Adiabatic Connection. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 4867-4875.	4.6	15
4	Variations of the Hartreeâ€Fock fractional-spin error for one electron. <i>Journal of Chemical Physics</i> , 2021, 155, 054107.	3.0	6
5	Kinetic Correlation Functionals from the Entropic Regularization of the Strictly Correlated Electrons Problem. <i>Journal of Chemical Theory and Computation</i> , 2020, 16, 488-498.	5.3	9
6	New density-functional approximations and beyond: general discussion. <i>Faraday Discussions</i> , 2020, 224, 166-200.	3.2	1
7	Strong correlation in density functional theory: general discussion. <i>Faraday Discussions</i> , 2020, 224, 373-381.	3.2	2
8	New approaches to study excited states in density functional theory: general discussion. <i>Faraday Discussions</i> , 2020, 224, 483-508.	3.2	2
9	MAP: An MP2 Accuracy Predictor for Weak Interactions from Adiabatic Connection Theory. <i>Journal of Chemical Theory and Computation</i> , 2020, 16, 4141-4149.	5.3	10
10	London dispersion forces without density distortion: a path to first principles inclusion in density functional theory. <i>Faraday Discussions</i> , 2020, 224, 145-165.	3.2	4
11	Exchange-Correlation Energy Densities and Response Potentials: Connection between Two Definitions and Analytical Model for the Strong-Coupling Limit of a Stretched Bond. <i>Journal of Physical Chemistry A</i> , 2020, 124, 2473-2482.	2.5	7
12	Large coupling-strength expansion of the MÅllerâ€Plesset adiabatic connection: From paradigmatic cases to variational expressions for the leading terms. <i>Journal of Chemical Physics</i> , 2020, 153, 214112.	3.0	16
13	Kohnâ€Sham equations with functionals from the strictly-correlated regime: investigation with a spectral renormalization method. <i>Journal of Physics Condensed Matter</i> , 2020, 32, 475602.	1.8	6
14	Correction to â€œExchangeâ€ Correlation Energy Densities and Response Potentials: Connection between Two Definitions and Analytical Model for the Strong-Coupling Limit of a Stretched Bondâ€. <i>Journal of Physical Chemistry A</i> , 2020, 124, 9895-9895.	2.5	0
15	Functional derivative of the zero-point-energy functional from the strong-interaction limit of density-functional theory. <i>Physical Review A</i> , 2019, 99, .	2.5	7
16	A Variational Approach to London Dispersion Interactions without Density Distortion. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 1537-1541.	4.6	9
17	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
18	Assessment of interaction-strength interpolation formulas for gold and silver clusters. <i>Journal of Chemical Physics</i> , 2018, 148, 134106.	3.0	28

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19	Local and global interpolations along the adiabatic connection of DFT: a study at different correlation regimes. <i>Theoretical Chemistry Accounts</i> , 2018, 137, 166.	1.4	13
20	Communication: Strong-interaction limit of an adiabatic connection in Hartree-Fock theory. <i>Journal of Chemical Physics</i> , 2018, 149, 241101.	3.0	25
21	Restoring Size Consistency of Approximate Functionals Constructed from the Adiabatic Connection. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 3137-3142.	4.6	26
22	Response Potential in the Strong-Interaction Limit of Density Functional Theory: Analysis and Comparison with the Coupling-Constant Average. <i>Journal of Chemical Theory and Computation</i> , 2018, 14, 4151-4167.	5.3	21
23	Asymptotic nodal planes in the electron density and the potential in the effective equation for the square root of the density. <i>European Physical Journal B</i> , 2018, 91, 1.	1.5	13
24	Sum-rules of the response potential in the strongly-interacting limit of DFT. <i>European Physical Journal B</i> , 2018, 91, 1.	1.5	3
25	Interpolated energy densities, correlation indicators and lower bounds from approximations to the strong coupling limit of DFT. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 6169-6183.	2.8	28
26	Simple Fully Nonlocal Density Functionals for Electronic Repulsion Energy. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 2799-2805.	4.6	30
27	Fermionic Statistics in the Strongly Correlated Limit of Density Functional Theory. <i>Journal of Chemical Theory and Computation</i> , 2017, 13, 6089-6100.	5.3	19
28	Augmented potential, energy densities, and virial relations in the weak- and strong-interaction limits of DFT. <i>Journal of Chemical Physics</i> , 2017, 147, 214107.	3.0	22
29	Exchange-Correlation Functionals via Local Interpolation along the Adiabatic Connection. <i>Journal of Chemical Theory and Computation</i> , 2016, 12, 2598-2610.	5.3	40
30	Challenging the Lieb-Oxford bound in a systematic way. <i>Molecular Physics</i> , 2016, 114, 1076-1085.	1.7	22
31	Interaction-Strength Interpolation Method for Main-Group Chemistry: Benchmarking, Limitations, and Perspectives. <i>Journal of Chemical Theory and Computation</i> , 2016, 12, 4885-4896.	5.3	34
32	Anomalous scaling and breakdown of conventional density functional theory methods for the description of Mott phenomena and stretched bonds. <i>Physical Review B</i> , 2016, 94, .	3.2	21
33	The adiabatic strictly-correlated-electrons functional: kernel and exact properties. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 21092-21101.	2.8	13
34	Foreword for special issue of <i>Molecular Physics</i> in honour of Andreas Savin. <i>Molecular Physics</i> , 2016, 114, 909-909.	1.7	0
35	Asymptotic behaviour of the electron density and the Kohn-Sham potential in case of a Kohn-Sham HOMO nodal plane. <i>Molecular Physics</i> , 2016, 114, 1086-1097.	1.7	23
36	Density-Functional Theory for Strongly Correlated Bosonic and Fermionic Ultracold Dipolar and Ionic Gases. <i>Physical Review Letters</i> , 2015, 115, 033006.	7.8	14

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37	Hydrogen Molecule Dissociation Curve with Functionals Based on the Strictly Correlated Regime. <i>Journal of Chemical Theory and Computation</i> , 2015, 11, 3153-3162.	5.3	31
38	Electron avoidance: A nonlocal radius for strong correlation. <i>Physical Review A</i> , 2014, 90, .	2.5	26
39	Wigner localization in quantum dots from Kohn-Sham density functional theory without symmetry breaking. <i>Physical Review B</i> , 2014, 89, .	3.2	34
40	Energy density functionals from the strong-coupling limit applied to the anions of the He isoelectronic series. <i>Journal of Chemical Physics</i> , 2014, 140, 18A532.	3.0	19
41	Exchange–correlation functionals from the strong interaction limit of DFT: applications to model chemical systems. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 14551-14558.	2.8	30
42	Density Functional Theory for Strongly-Interacting Electrons. <i>Letters in Mathematical Physics</i> , 2014, , 153-168.	0.6	0
43	Derivative Discontinuity in the Strong-Interaction Limit of Density-Functional Theory. <i>Physical Review Letters</i> , 2013, 111, 126402.	7.8	25
44	Kohn-Sham density functional theory for quantum wires in arbitrary correlation regimes. <i>Physical Review B</i> , 2013, 87, .	3.2	43
45	Optimal-transport formulation of electronic density-functional theory. <i>Physical Review A</i> , 2012, 85, .	2.5	101
46	Strong Correlation in Kohn-Sham Density Functional Theory. <i>Physical Review Letters</i> , 2012, 109, 246402.	7.8	89
47	Energy Densities in the Strong-Interaction Limit of Density Functional Theory. <i>Journal of Chemical Theory and Computation</i> , 2012, 8, 3097-3107.	5.3	43
48	Strictly correlated uniform electron droplets. <i>Physical Review B</i> , 2011, 83, .	3.2	29
49	Adiabatic connection at negative coupling strengths. <i>Physical Review A</i> , 2010, 81, .	2.5	13
50	Density functional theory for strongly-interacting electrons: perspectives for physics and chemistry. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 14405.	2.8	60
51	Study of the discontinuity of the exchange–correlation potential in an exactly soluble case. <i>International Journal of Quantum Chemistry</i> , 2009, 109, 2410-2415.	2.0	40
52	Range separation combined with the Overhauser model: Application to the H ₂ molecule along the dissociation curve. <i>International Journal of Quantum Chemistry</i> , 2009, 109, 1950-1961.	2.0	10
53	Electronic Zero-Point Oscillations in the Strong-Interaction Limit of Density Functional Theory. <i>Journal of Chemical Theory and Computation</i> , 2009, 5, 743-753.	5.3	79
54	Charge density reconstitution from approximate exchange-correlation holes. <i>Canadian Journal of Chemistry</i> , 2009, 87, 1444-1450.	1.1	14

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55	Density-Functional Theory for Strongly Interacting Electrons. <i>Physical Review Letters</i> , 2009, 103, 166402.	7.8	83
56	Intracule densities in the strong-interaction limit of density functional theory. <i>Physical Chemistry Chemical Physics</i> , 2008, 10, 3440.	2.8	17
57	Strictly correlated electrons in density-functional theory: A general formulation with applications to spherical densities. <i>Physical Review A</i> , 2007, 75, .	2.5	126
58	High-Density Limit of Two-Electron Systems: Results from the Extended Overhauser Approach. <i>Journal of Chemical Theory and Computation</i> , 2007, 3, 796-802.	5.3	5
59	Scaling relations, virial theorem, and energy densities for long-range and short-range density functionals. <i>International Journal of Quantum Chemistry</i> , 2006, 106, 2026-2034.	2.0	21
60	A short-range gradient-corrected spin density functional in combination with long-range coupled-cluster methods: Application to alkali-metal rare-gas dimers. <i>Chemical Physics</i> , 2006, 329, 276-282.	1.9	133
61	System-adapted correlation energy density functionals from effective pair interactions. <i>Philosophical Magazine</i> , 2006, 86, 2643-2659.	1.6	30
62	Properties of short-range and long-range correlation energy density functionals from electron-electron coalescence. <i>Physical Review A</i> , 2006, 73, .	2.5	60
63	Local-spin-density functional for multideterminant density functional theory. <i>Physical Review B</i> , 2006, 73, .	3.2	98
64	A short-range correlation energy density functional with multi-determinantal reference. <i>Theoretical Chemistry Accounts</i> , 2005, 114, 305-308.	1.4	45
65	Simple model for the spherically and system-averaged pair density: Results for two-electron atoms. <i>Physical Review A</i> , 2005, 71, .	2.5	38
66	Pair-distribution functions of the two-dimensional electron gas. <i>Physical Review B</i> , 2004, 70, .	3.2	47
67	Spin resolution of the electron-gas correlation energy: Positive same spin contributions. <i>Physical Review B</i> , 2004, 69, .	3.2	27
68	Simple physical picture of the Overhauser screened electron-electron interaction. <i>Physical Review B</i> , 2004, 69, .	3.2	21
69	Local density functional for the short-range part of the electron-electron interaction. <i>Physical Review B</i> , 2004, 70, .	3.2	28
70	Two-dimensional electron gas: Correlation energy versus density and spin polarization. <i>International Journal of Quantum Chemistry</i> , 2003, 91, 126-130.	2.0	13
71	Momentum distribution of the uniform electron gas: Improved parametrization and exact limits of the cumulant expansion. <i>Physical Review B</i> , 2002, 66, .	3.2	57
72	Pair distribution function of the spin-polarized electron gas: A first-principles analytic model for all uniform densities. <i>Physical Review B</i> , 2002, 66, .	3.2	76

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73	Correlation Energy and Spin Polarization in the 2D Electron Gas. <i>Physical Review Letters</i> , 2002, 88, 256601.	7.8	366
74	Uniform Electron Gas from Two-Particle Wavefunctions. , 2002, , 379-387.		3
75	Model static structure factors and pair-correlation functions for the unpolarized homogeneous electron gas. <i>AIP Conference Proceedings</i> , 2001, , .	0.4	0
76	Uniform electron gas from the Colle-Salvetti functional: Missing long-range correlations. <i>Physical Review A</i> , 2001, 63, .	2.5	31
77	Short-range correlation in the uniform electron gas: Extended Overhauser model. <i>Physical Review B</i> , 2001, 64, .	3.2	72
78	Correlation energy, pair-distribution functions and static structure factors of jellium. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2000, 280, 199-205.	2.6	6
79	Analytic static structure factors and pair-correlation functions for the unpolarized homogeneous electron gas. <i>Physical Review B</i> , 2000, 61, 7353-7363.	3.2	178