Ireneusz Grabowski

List of Publications by Year
in descending order

43	1,614	331642	289230
papers	citations	21 h-index	40 g-index

45	45	45	708
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Boosting the OEP2-sc method with spin-component scaling. Molecular Physics, 2022, 120, .	1.7	2
2	Self-Consistent Range-Separated Density-Functional Theory with Second-Order Perturbative Correction via the Optimized-Effective-Potential Method. Journal of Chemical Theory and Computation, 2020, 16, 211-223.	5.3	15
3	The ab initio density functional theory applied for spin-polarized calculations. Journal of Chemical Physics, 2020, 152, 054109.	3.0	19
4	From simple molecules to nanotubes. Reliable predictions of ionization potentials from the Î”MP2-SCS methods. New Journal of Physics, 2020, 22, 083084.	2.9	4
5	Investigation of the Exchange-Correlation Potentials of Functionals Based on the Adiabatic Connection Interpolation. Journal of Chemical Theory and Computation, 2019, 15, 1006-1015.	5.3	26
6	Spin-Component-Scaled Î”MP2 Parametrization: Toward a Simple and Reliable Method for Ionization Energies. Journal of Chemical Theory and Computation, 2018, 14, 4780-4790.	5.3	21
7	Density-Based Analysis of Spin-Resolved MP2 Method. Advances in Quantum Chemistry, 2018, , 279-293.	0.8	4
8	Self-consistent double-hybrid density-functional theory using the optimized-effective-potential method. Journal of Chemical Physics, 2016, 145, 144102.	3.0	25
9	Accurate Kohnâ€“Sham ionization potentials from scaledâ€oppositeâ€spin secondâ€order optimized effective potential methods. Journal of Computational Chemistry, 2016, 37, 2081-2090.	3.3	24
10	The Correlation Effects in Density Functional Theory Along the Dissociation Path. Advances in Quantum Chemistry, 2016, 73, 263-283.	0.8	7
11	Accurate non-covalent interaction energies via an efficient MP2 scaling procedure. Chemical Physics Letters, 2015, 635, 262-267.	2.6	6
12	Orbital-dependent second-order scaled-opposite-spin correlation functionals in the optimized effective potential method. Journal of Chemical Physics, 2014, 141, 024113.	3.0	35
13	On the mutual exclusion of variationality and size consistency. Theoretical Chemistry Accounts, 2014, 133, 1.	1.4	5
14	Density-Dependent Exchangeâ€“Correlation Potentials Derived From highly Accurate Ab initio Calculations. Advances in Quantum Chemistry, 2014, 68, 125-151.	0.8	11
15	OEP Orbitals as a Reference for Ab Initio Many-Body Calculations. Advances in Quantum Chemistry, 2014, 68, 105-123.	0.8	1
16	A density difference based analysis of orbital-dependent exchange-correlation functionals. Molecular Physics, 2014, 112, 700-710.	1.7	25
17	A simple non-empirical procedure for spin-component-scaled MP2 methods applied to the calculation of the dissociation energy curve of noncovalently-interacting systems. Physical Chemistry Chemical Physics, 2013, 15, 15485.	2.8	13
18	Optimized effective potential method based on spin-resolved components of the second-order correlation energy in density functional theory. Physical Review B, 2013, 87, .	3.2	26

#	Article	IF	Citations
19	Comparing ab initio density-functional and wave function theories: The impact of correlation on the electronic density and the role of the correlation potential. Journal of Chemical Physics, 2011, 135, 114111.	3.0	39
20	Ab initio dynamic correlation effects in density functional theories: a density based study for argon. Theoretical Chemistry Accounts, 2010, 125, 433-444.	1.4	15
21	Ab initioDFT â€“ the seamless connection between WFT and DFT. Molecular Physics, 2010, 108, 3313-3322.	1.7	15
22	Coverage of dynamic correlation effects by density functional theory functionals: Density-based analysis for neon. Journal of Chemical Physics, 2009, 130, 164102.	3.0	21
23	Comparison of secondâ€order orbitalâ€dependent DFT correlation functionals. International Journal of Quantum Chemistry, 2008, 108, 2076-2087.	2.0	15
24	Ab initio density functional theory applied to quasidegenerate problems. Journal of Chemical Physics, 2007, 127, 154111.	3.0	37
25	Intermolecular potential energy surfaces of weakly bound dimers computed from ab initio density functional theory: The right answer for the right reason. Chemical Physics Letters, 2005, 405, 43-48.	2.6	62
26	Ab initio Correlation Effects in Density Functional Theories: An Electron-Distribution-Based Study for Neon. Collection of Czechoslovak Chemical Communications, 2005, 70, 1157-1176.	1.0	5
27	Exact-exchange time-dependent density-functional theory for static and dynamic polarizabilities. Physical Review A, 2005, 71, .	2.5	24
28	Accurate orbital-dependent correlation and exchange-correlation potentials from non-iterativeab initio dftcalculations. Molecular Physics, 2005, 103, 2085-2092.	1.7	19
29	The exchange-correlation potential inab initiodensity functional theory. Journal of Chemical Physics, 2005, 122, 034104.	3.0	159
30	Connections between second-order GÃ¶rlingâ€“Levy and many-body perturbation approaches in density functional theory. Journal of Chemical Physics, 2003, 118, 461-470.	3.0	28
31	Time-dependent density functional theory employing optimized effective potentials. Journal of Chemical Physics, 2002, 116, 6468-6481.	3.0	94
32	Abâ€initio density functional theory: OEP-MBPT(2). A new orbital-dependent correlation functional. Journal of Chemical Physics, 2002, 116, 4415-4425.	3.0	139
33	Perturbative corrections to coupled-cluster and equation-of-motion coupled-cluster energies: A determinantal analysis. Journal of Chemical Physics, 2001, 114, 3919-3928.	3.0	168
34	Highly accurate treatment of electron correlation in polymers: coupled-cluster and many-body perturbation theories. Chemical Physics Letters, 2001, 345, 475-480.	2.6	58
35	Can optimized effective potentials be determined uniquely?. Journal of Chemical Physics, 2001, 115, 1635-1649.	3.0	184
36	Approximate Coupled Cluster Methods: Combined Reduced Multireference and Almostâ€“Linear Coupled Cluster Methods with Singles and Doubles 11This paper is dedicated to Professor Giuseppe Del Re at the occasion of his 65th anniversary.. Advances in Quantum Chemistry, 2000, 36, 231-251.	0.8	18

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37	A coupled-cluster correction to the multi-reference configuration interaction method. Chemical Physics Letters, 1999, 300, 53-60.	2.6	33
38	A perturbative approach to the almost-linear coupled-cluster formalism. Chemical Physics Letters, 1999, 311, 265-274.	2.6	0
39	Correspondence between physical states and solutions to the coupled-cluster equations. , 1999, 75, 483-496.		4
40	Approximate coupled-cluster methods employing split cluster amplitudes: Implementation of an almost-linear coupled-cluster formalism. Journal of Chemical Physics, 1998, 109, 6255-6263.	3.0	18
41	Performance of valence-universal multireference coupled-cluster theory for quasi-degenerate states: TheH8 andDZPH4 models. International Journal of Quantum Chemistry, 1995, 55, 205-212.	2.0	3
42	Applicability of valenceâ€universal multireference coupledâ€cluster theories to quasidegenerate electronic states. II. Models involving threeâ€body amplitudes. Journal of Chemical Physics, 1994, 101, 3085-3095.	3.0	48
43	Applicability of valenceâ€universal multireference coupledâ€cluster theories to quasidegenerate electronic states. I. Models involving at most twoâ€body amplitudes. Journal of Chemical Physics, 1992, 97, 7600-7612.	3.0	72