

Ireneusz Grabowski

List of Publications by Year in descending order

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43
papers

1,614
citations

331670

21
h-index

289244

40
g-index

45
all docs

45
docs citations

45
times ranked

708
citing authors

#	ARTICLE	IF	CITATIONS
1	Boosting the OEP2-sc method with spin-component scaling. <i>Molecular Physics</i> , 2022, 120, .	1.7	2
2	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
3	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
4	From simple molecules to nanotubes. Reliable predictions of ionization potentials from the \hat{T} MP2-SCS methods. <i>New Journal of Physics</i> , 2020, 22, 083084.	2.9	4
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	Spin-Component-Scaled \hat{T} 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
7	Density-Based Analysis of Spin-Resolved MP2 Method. <i>Advances in Quantum Chemistry</i> , 2018, , 279-293.	0.8	4
8	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
9	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
10	The Correlation Effects in Density Functional Theory Along the Dissociation Path. <i>Advances in Quantum Chemistry</i> , 2016, 73, 263-283.	0.8	7
11	Accurate non-covalent interaction energies via an efficient MP2 scaling procedure. <i>Chemical Physics Letters</i> , 2015, 635, 262-267.	2.6	6
12	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
13	On the mutual exclusion of variationality and size consistency. <i>Theoretical Chemistry Accounts</i> , 2014, 133, 1.	1.4	5
14	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
15	OEP Orbitals as a Reference for Ab Initio Many-Body Calculations. <i>Advances in Quantum Chemistry</i> , 2014, 68, 105-123.	0.8	1
16	A density difference based analysis of orbital-dependent exchange-correlation functionals. <i>Molecular Physics</i> , 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. <i>Physical Chemistry Chemical Physics</i> , 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. <i>Physical Review B</i> , 2013, 87, .	3.2	26

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19	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
20	Ab initio dynamic correlation effects in density functional theories: a density based study for argon. <i>Theoretical Chemistry Accounts</i> , 2010, 125, 433-444.	1.4	15
21	<i>Ab initio</i> DFT – the seamless connection between WFT and DFT. <i>Molecular Physics</i> , 2010, 108, 3313-3322.	1.7	15
22	Coverage of dynamic correlation effects by density functional theory functionals: Density-based analysis for neon. <i>Journal of Chemical Physics</i> , 2009, 130, 164102.	3.0	21
23	Comparison of second-order orbital-dependent DFT correlation functionals. <i>International Journal of Quantum Chemistry</i> , 2008, 108, 2076-2087.	2.0	15
24	Ab initio density functional theory applied to quasidegenerate problems. <i>Journal of Chemical Physics</i> , 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. <i>Chemical Physics Letters</i> , 2005, 405, 43-48.	2.6	62
26	Ab initio Correlation Effects in Density Functional Theories: An Electron-Distribution-Based Study for Neon. <i>Collection of Czechoslovak Chemical Communications</i> , 2005, 70, 1157-1176.	1.0	5
27	Exact-exchange time-dependent density-functional theory for static and dynamic polarizabilities. <i>Physical Review A</i> , 2005, 71, .	2.5	24
28	Accurate orbital-dependent correlation and exchange-correlation potentials from non-iterative ab initio dft calculations. <i>Molecular Physics</i> , 2005, 103, 2085-2092.	1.7	19
29	The exchange-correlation potential in ab initio density functional theory. <i>Journal of Chemical Physics</i> , 2005, 122, 034104.	3.0	159
30	Connections between second-order $G\ddot{A}$ rling-Levy and many-body perturbation approaches in density functional theory. <i>Journal of Chemical Physics</i> , 2003, 118, 461-470.	3.0	28
31	Time-dependent density functional theory employing optimized effective potentials. <i>Journal of Chemical Physics</i> , 2002, 116, 6468-6481.	3.0	94
32	Ab initio density functional theory: OEP-MBPT(2). A new orbital-dependent correlation functional. <i>Journal of Chemical Physics</i> , 2002, 116, 4415-4425.	3.0	139
33	Perturbative corrections to coupled-cluster and equation-of-motion coupled-cluster energies: A determinantal analysis. <i>Journal of Chemical Physics</i> , 2001, 114, 3919-3928.	3.0	168
34	Highly accurate treatment of electron correlation in polymers: coupled-cluster and many-body perturbation theories. <i>Chemical Physics Letters</i> , 2001, 345, 475-480.	2.6	58
35	Can optimized effective potentials be determined uniquely?. <i>Journal of Chemical Physics</i> , 2001, 115, 1635-1649.	3.0	184
36	Approximate Coupled Cluster Methods: Combined Reduced Multireference and Almost-Linear Coupled Cluster Methods with Singles and Doubles 11This paper is dedicated to Professor Giuseppe Del Re at the occasion of his 65th anniversary.. <i>Advances in Quantum Chemistry</i> , 2000, 36, 231-251.	0.8	18

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37	A coupled-cluster correction to the multi-reference configuration interaction method. <i>Chemical Physics Letters</i> , 1999, 300, 53-60.	2.6	33
38	A perturbative approach to the almost-linear coupled-cluster formalism. <i>Chemical Physics Letters</i> , 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. <i>Journal of Chemical Physics</i> , 1998, 109, 6255-6263.	3.0	18
41	Performance of valence-universal multireference coupled-cluster theory for quasi-degenerate states: TheH8 andDZPH4 models. <i>International Journal of Quantum Chemistry</i> , 1995, 55, 205-212.	2.0	3
42	Applicability of valence-universal multireference coupled-cluster theories to quasidegenerate electronic states. II. Models involving three-body amplitudes. <i>Journal of Chemical Physics</i> , 1994, 101, 3085-3095.	3.0	48
43	Applicability of valence-universal multireference coupled-cluster theories to quasidegenerate electronic states. I. Models involving at most two-body amplitudes. <i>Journal of Chemical Physics</i> , 1992, 97, 7600-7612.	3.0	72