

Trygve Helgaker

List of Publications by Year in descending order

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348
papers

31,566
citations

7251

80
h-index

6512

162
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371
all docs

371
docs citations

371
times ranked

13517
citing authors

#	ARTICLE	IF	CITATIONS
1	Analytic calculation of the Berry curvature and diagonal Born–Oppenheimer correction for molecular systems in uniform magnetic fields. <i>Journal of Chemical Physics</i> , 2022, 156, 044121.	1.2	15
2	Revealing the exotic structure of molecules in strong magnetic fields. <i>Journal of Chemical Physics</i> , 2022, 156, .	1.2	11
3	Molecular dynamics of linear molecules in strong magnetic fields. <i>Journal of Chemical Physics</i> , 2022, 157, .	1.2	13
4	Lower Semicontinuity of the Universal Functional in Paramagnetic Current–Density Functional Theory. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 1421-1425.	2.1	11
5	Ab Initio molecular dynamics with screened Lorentz forces. II. Efficient propagators and rovibrational spectra in strong magnetic fields. <i>Journal of Chemical Physics</i> , 2021, 155, 024105.	1.2	16
6	Ab initio molecular dynamics with screened Lorentz forces. I. Calculation and atomic charge interpretation of Berry curvature. <i>Journal of Chemical Physics</i> , 2021, 155, 024104.	1.2	23
7	Robust All-Electron Optimization in Orbital-Free Density-Functional Theory Using the Trust-Region Image Method. <i>Journal of Physical Chemistry A</i> , 2021, 125, 459-475.	1.1	8
8	Bonding in the helium dimer in strong magnetic fields: the role of spin and angular momentum. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 23502-23521.	1.3	15
9	Foreword: Prof. Gauss Festschrift. <i>Molecular Physics</i> , 2020, 118, e1817247.	0.8	0
10	Analyzing Magnetically Induced Currents in Molecular Systems Using Current-Density-Functional Theory. <i>Journal of Physical Chemistry A</i> , 2020, 124, 1321-1333.	1.1	42
11	Challenges for large scale simulation: general discussion. <i>Faraday Discussions</i> , 2020, 224, 309-332.	1.6	2
12	New density-functional approximations and beyond: general discussion. <i>Faraday Discussions</i> , 2020, 224, 166-200.	1.6	1
13	First-Principles Calculation of ^1H NMR Chemical Shifts of Complex Metal Polyhydrides: The Essential Inclusion of Relativity and Dynamics. <i>Inorganic Chemistry</i> , 2020, 59, 17509-17518.	1.9	12
14	Strong correlation in density functional theory: general discussion. <i>Faraday Discussions</i> , 2020, 224, 373-381.	1.6	2
15	New approaches to study excited states in density functional theory: general discussion. <i>Faraday Discussions</i> , 2020, 224, 483-508.	1.6	2
16	Dalton Project: A Python platform for molecular- and electronic-structure simulations of complex systems. <i>Journal of Chemical Physics</i> , 2020, 152, 214115.	1.2	45
17	Atoms and molecules in soft confinement potentials. <i>Molecular Physics</i> , 2020, 118, e1730989.	0.8	18
18	A quantum-mechanical non-Born–Oppenheimer model of a molecule in a strong magnetic field. <i>Chemical Physics Letters</i> , 2020, 761, 138041.	1.2	4

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19	Kohn–Sham energy decomposition for molecules in a magnetic field. <i>Molecular Physics</i> , 2019, 117, 97-109.	0.8	21
20	<i>GW</i> quasiparticle energies of atoms in strong magnetic fields. <i>Journal of Chemical Physics</i> , 2019, 150, 214112.	1.2	21
21	Kohn–Sham Theory with Paramagnetic Currents: Compatibility and Functional Differentiability. <i>Journal of Chemical Theory and Computation</i> , 2019, 15, 4003-4020.	2.3	14
22	Four-component relativistic ³¹ P NMR calculations for <i>trans</i> -platinum(II) complexes: importance of the solvent and dynamics in spectral simulations. <i>Dalton Transactions</i> , 2019, 48, 8076-8083.	1.6	18
23	Excitation energies from G ⁰ –Levy perturbation theory along the range-separated adiabatic connection. <i>Molecular Physics</i> , 2018, 116, 1443-1451.	0.8	5
24	Uniform magnetic fields in density-functional theory. <i>Journal of Chemical Physics</i> , 2018, 148, 024101.	1.2	20
25	A computational quantum-mechanical model of a molecular magnetic trap. <i>Journal of Chemical Physics</i> , 2018, 149, 244112.	1.2	6
26	Bethe–Salpeter correlation energies of atoms and molecules. <i>Journal of Chemical Physics</i> , 2018, 149, 144106.	1.2	24
27	Generalized Kohn–Sham iteration on Banach spaces. <i>Journal of Chemical Physics</i> , 2018, 149, 164103.	1.2	14
28	Explicitly-correlated non-born-oppenheimer calculations of the HD molecule in a strong magnetic field. <i>Chemical Physics Letters</i> , 2017, 682, 87-90.	1.2	7
29	Connections between variation principles at the interface of wave-function and density-functional theories. <i>Journal of Chemical Physics</i> , 2017, 147, 134107.	1.2	4
30	Magnetic-Field Density-Functional Theory (BDFT): Lessons from the Adiabatic Connection. <i>Journal of Chemical Theory and Computation</i> , 2017, 13, 4089-4100.	2.3	32
31	A tribute to Jan Erik Almlöf. <i>Molecular Physics</i> , 2017, 115, 2033-2042.	0.8	0
32	Nuclei-selected atomic-orbital response-theory formulation for the calculation of NMR shielding tensors using density-fitting. <i>Journal of Chemical Physics</i> , 2016, 145, 234108.	1.2	7
33	Comparison of Three Efficient Approximate Exact-Exchange Algorithms: The Chain-of-Spheres Algorithm, Pair-Atomic Resolution-of-the-Identity Method, and Auxiliary Density Matrix Method. <i>Journal of Chemical Theory and Computation</i> , 2016, 12, 3514-3522.	2.3	29
34	Calculation of NMR Spin–Spin Coupling Constants in Strychnine. <i>Journal of Organic Chemistry</i> , 2016, 81, 11496-11500.	1.7	20
35	Foreword for special issue of <i>Molecular Physics</i> in honour of Andreas Savin. <i>Molecular Physics</i> , 2016, 114, 909-909.	0.8	0
36	Alternative Representations of the Correlation Energy in Density-Functional Theory: A Kinetic Energy Based Adiabatic Connection. <i>Journal of the Chinese Chemical Society</i> , 2016, 63, 121-128.	0.8	7

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37	Electron localisation function in current-density-functional theory. <i>Molecular Physics</i> , 2016, 114, 1415-1422.	0.8	14
38	Coupled-cluster theory for atoms and molecules in strong magnetic fields. <i>Journal of Chemical Physics</i> , 2015, 143, 074110.	1.2	72
39	Ground-state densities from the Rayleigh-Ritz variation principle and from density-functional theory. <i>Journal of Chemical Physics</i> , 2015, 143, 184106.	1.2	11
40	FemEx™ female excellence in theoretical and computational chemistry. <i>International Journal of Quantum Chemistry</i> , 2015, 115, 1195-1196.	1.0	3
41	Excited states from range-separated density-functional perturbation theory. <i>Molecular Physics</i> , 2015, 113, 1740-1749.	0.8	12
42	Geometry of the magic number $H^{+}(H_2O)_{21}$ water cluster by proxy. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 5466-5473.	1.3	9
43	Use of Density Functional Theory Orbitals in the GVPT2 Variant of Second-Order Multistate Multireference Perturbation Theory. <i>Journal of Physical Chemistry A</i> , 2015, 119, 1548-1553.	1.1	9
44	Current Density Functional Theory Using Meta-Generalized Gradient Exchange-Correlation Functionals. <i>Journal of Chemical Theory and Computation</i> , 2015, 11, 4169-4181.	2.3	66
45	The importance of current contributions to shielding constants in density-functional theory. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 18834-18842.	1.3	35
46	Calculating excitation energies by extrapolation along adiabatic connections. <i>Physical Review A</i> , 2015, 91, .	1.0	14
47	Molecular properties in the Tamm-Dancoff approximation: indirect nuclear spin-spin coupling constants. <i>Molecular Physics</i> , 2015, 113, 1937-1951.	0.8	9
48	Fractional Electron Loss in Approximate DFT and Hartree-Fock Theory. <i>Journal of Chemical Theory and Computation</i> , 2015, 11, 5262-5268.	2.3	38
49	Non-Born-Oppenheimer calculations of the HD molecule in a strong magnetic field. <i>Chemical Physics Letters</i> , 2015, 639, 295-299.	1.2	10
50	Excitation energies from ensemble DFT. <i>AIP Conference Proceedings</i> , 2015, , .	0.3	2
51	Non-perturbative calculation of molecular magnetic properties within current-density functional theory. <i>Journal of Chemical Physics</i> , 2014, 140, 034101.	1.2	67
52	Fermion N -representability for prescribed density and paramagnetic current density. <i>Physical Review A</i> , 2014, 89, .	1.0	14
53	The Dalton quantum chemistry program system. <i>Wiley Interdisciplinary Reviews: Computational Molecular Science</i> , 2014, 4, 269-284.	6.2	1,166
54	Excitation energies along a range-separated adiabatic connection. <i>Journal of Chemical Physics</i> , 2014, 141, 044123.	1.2	17

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55	Charge-constrained auxiliary-density-matrix methods for the Hartree-Fock exchange contribution. <i>Journal of Chemical Physics</i> , 2014, 141, 094104.	1.2	21
56	Analytic cubic and quartic force fields using density-functional theory. <i>Journal of Chemical Physics</i> , 2014, 140, 034103.	1.2	38
57	Mechanochemistry: The Effect of Dynamics. <i>Journal of Physical Chemistry A</i> , 2014, 118, 7683-7694.	1.1	22
58	Differentiable but exact formulation of density-functional theory. <i>Journal of Chemical Physics</i> , 2014, 140, 18A518.	1.2	48
59	Multiconfigurational Self-Consistent Field Theory. , 2014, , 598-647.		4
60	A theoretical study on the hydrogen transport mechanism in SrTiO ₃ perovskite. II. Scandium doping at titanium site. <i>International Journal of Quantum Chemistry</i> , 2013, 113, 599-604.	1.0	5
61	Communication: Analytic gradients in the random-phase approximation. <i>Journal of Chemical Physics</i> , 2013, 139, 081101.	1.2	38
62	Benchmarking density-functional theory calculations of NMR shielding constants and spin-rotation constants using accurate coupled-cluster calculations. <i>Journal of Chemical Physics</i> , 2013, 138, 024111.	1.2	153
63	Attractive electron-electron interactions within robust local fitting approximations. <i>Journal of Computational Chemistry</i> , 2013, 34, 1486-1496.	1.5	67
64	Internal-Cartesian back transformation of molecular geometry steps using high-order geometric derivatives. <i>Journal of Computational Chemistry</i> , 2013, 34, 1842-1849.	1.5	6
65	The accuracy of the Gaussian-and-finite-element-Coulomb (GFC) method for the calculation of Coulomb integrals. <i>Journal of Chemical Physics</i> , 2013, 139, 054114.	1.2	2
66	³³ S hyperfine interactions in H ₂ S and SO ₂ and revision of the sulfur nuclear magnetic shielding scale. <i>Journal of Chemical Physics</i> , 2013, 139, 244308.	1.2	22
67	Insights into the dynamics of evaporation and proton migration in protonated water clusters from Large-scale Born-Oppenheimer direct dynamics. <i>Journal of Computational Chemistry</i> , 2013, 34, 533-544.	1.5	7
68	Alternative separation of exchange and correlation energies in multi-configuration range-separated density-functional theory. <i>Journal of Chemical Physics</i> , 2013, 139, 134113.	1.2	37
69	A Theoretical Study on Proton Conduction Mechanism in BaZrO ₃ Perovskite. <i>Progress in Theoretical Chemistry and Physics</i> , 2013, , 233-248.	0.2	8
70	Choice of basic variables in current-density-functional theory. <i>Physical Review A</i> , 2012, 86, .	1.0	52
71	The NMR indirect nuclear spin-spin coupling constant of the HD molecule. <i>Molecular Physics</i> , 2012, 110, 2611-2617.	0.8	15
72	Analytical GIAO and hybrid-basis integral derivatives: application to geometry optimization of molecules in strong magnetic fields. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 9492.	1.3	43

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73	A Paramagnetic Bonding Mechanism for Diatomics in Strong Magnetic Fields. <i>Science</i> , 2012, 337, 327-331.	6.0	123
74	Range-dependent adiabatic connections. , 2012, , .		0
75	A theoretical study on hydrogen transport mechanism in SrTiO ₃ perovskite. <i>International Journal of Quantum Chemistry</i> , 2012, 112, 201-207.	1.0	8
76	Multi-electron integrals. <i>Wiley Interdisciplinary Reviews: Computational Molecular Science</i> , 2012, 2, 290-303.	6.2	60
77	Recent Advances in Wave Function-Based Methods of Molecular-Property Calculations. <i>Chemical Reviews</i> , 2012, 112, 543-631.	23.0	549
78	Calculation of the two-electron Darwin term using explicitly correlated wave functions. <i>Chemical Physics</i> , 2012, 401, 146-151.	0.9	3
79	Influence of External Force on Properties and Reactivity of Disulfide Bonds. <i>Journal of Physical Chemistry A</i> , 2011, 115, 2308-2315.	1.1	47
80	Dispersion interactions in density-functional theory: An adiabatic-connection analysis. <i>Journal of Chemical Physics</i> , 2011, 135, 194109.	1.2	21
81	The ab initio calculation of molecular electric, magnetic and geometric properties. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 2627-2651.	1.3	58
82	Relativistic four-component calculations of Buckingham birefringence using London atomic orbitals. <i>Theoretical Chemistry Accounts</i> , 2011, 129, 685-699.	0.5	4
83	Spin flipping in ring-coupled-cluster-doubles theory. <i>Chemical Physics Letters</i> , 2011, 510, 147-153.	1.2	42
84	Range-dependent adiabatic connections. <i>Journal of Chemical Physics</i> , 2010, 133, 164112.	1.2	30
85	An efficient density-functional-theory force evaluation for large molecular systems. <i>Journal of Chemical Physics</i> , 2010, 133, 044102.	1.2	20
86	Accurate calculation and modeling of the adiabatic connection in density functional theory. <i>Journal of Chemical Physics</i> , 2010, 132, 164115.	1.2	86
87	Spin-spin coupling constants and triplet instabilities in Kohn-Sham theory. <i>Molecular Physics</i> , 2010, 108, 2579-2590.	0.8	55
88	Benchmarking density-functional-theory calculations of rotational g tensors and magnetizabilities using accurate coupled-cluster calculations. <i>Journal of Chemical Physics</i> , 2009, 131, 144104.	1.2	60
89	Implementation of the incremental scheme for one-electron first-order properties in coupled-cluster theory. <i>Journal of Chemical Physics</i> , 2009, 131, 154102.	1.2	37
90	The geminal basis in explicitly correlated wave functions. <i>Chemical Physics</i> , 2009, 356, 25-30.	0.9	24

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91	Robust and Reliable Multilevel Minimization of the Kohn-Sham Energy. <i>Journal of Chemical Theory and Computation</i> , 2009, 5, 1027-1032.	2.3	12
92	The calculation of adiabatic-connection curves from full configuration-interaction densities: Two-electron systems. <i>Journal of Chemical Physics</i> , 2009, 130, 104111.	1.2	64
93	Assessment of theoretical methods for the determination of the mechanochemical strength of covalent bonds. <i>Molecular Physics</i> , 2009, 107, 2537-2546.	0.8	44
94	Non-perturbative magnetic phenomena in closed-shell paramagnetic molecules. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 5489.	1.3	59
95	A stepwise atomic, valence-molecular, and full-molecular optimisation of the Hartree-Fock/Kohn-Sham energy. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 5805.	1.3	15
96	The quantum-chemical calculation of NMR indirect spin-spin coupling constants. <i>Progress in Nuclear Magnetic Resonance Spectroscopy</i> , 2008, 53, 249-268.	3.9	252
97	Static and Frequency-Dependent Dipole-Dipole Polarizabilities of All Closed-Shell Atoms up to Radium: A Four-Component Relativistic DFT Study. <i>ChemPhysChem</i> , 2008, 9, 445-453.	1.0	27
98	Excitation energies in density functional theory: An evaluation and a diagnostic test. <i>Journal of Chemical Physics</i> , 2008, 128, 044118.	1.2	1,190
99	Hartree-Fock and Kohn-Sham time-dependent response theory in a second-quantization atomic-orbital formalism suitable for linear scaling. <i>Journal of Chemical Physics</i> , 2008, 129, 054106.	1.2	42
100	Maps of current density using density-functional methods. <i>Journal of Chemical Physics</i> , 2008, 129, 074101.	1.2	50
101	Quantitative quantum chemistry. <i>Molecular Physics</i> , 2008, 106, 2107-2143.	0.8	215
102	Variational and robust density fitting of four-center two-electron integrals in local metrics. <i>Journal of Chemical Physics</i> , 2008, 129, 104101.	1.2	75
103	A ground-state-directed optimization scheme for the Kohn-Sham energy. <i>Physical Chemistry Chemical Physics</i> , 2008, 10, 5344.	1.3	16
104	Second-order Møller-Plesset calculations on the water molecule using Gaussian-type orbital and Gaussian-type geminal theory. <i>Physical Chemistry Chemical Physics</i> , 2008, 10, 3377.	1.3	13
105	Nonperturbative <i>ab initio</i> calculations in strong magnetic fields using London orbitals. <i>Journal of Chemical Physics</i> , 2008, 129, 154114.	1.2	99
106	Efficient elimination of response parameters in molecular property calculations for variational and nonvariational energies. <i>Journal of Chemical Physics</i> , 2008, 129, 214103.	1.2	35
107	Density-functional calculations of the nuclear magnetic shielding and indirect nuclear spin-spin coupling constants of three isomers of C ₂₀ . <i>Molecular Physics</i> , 2008, 106, 2357-2365.	0.8	3
108	The augmented Roothaan-Hall method for optimizing Hartree-Fock and Kohn-Sham density matrices. <i>Journal of Chemical Physics</i> , 2008, 129, 124106.	1.2	45

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109	Electronic circular dichroism of disulphide bridge: Ab initio quantum-chemical calculations. Journal of Chemical Physics, 2007, 127, 085102.	1.2	18
110	Linear-scaling implementation of molecular electronic self-consistent field theory. Journal of Chemical Physics, 2007, 126, 114110.	1.2	78
111	Linear-scaling implementation of molecular response theory in self-consistent field electronic-structure theory. Journal of Chemical Physics, 2007, 126, 154108.	1.2	87
112	A unified scheme for the calculation of differentiated and undifferentiated molecular integrals over solid-harmonic Gaussians. Physical Chemistry Chemical Physics, 2007, 9, 4771.	1.3	33
113	Density-Functional and Coupled-Cluster Singles-and-Doubles Calculations of the Nuclear Shielding and Indirect Nuclear Spin-Spin Coupling Constants of o-Benzynes. Journal of Chemical Theory and Computation, 2007, 3, 86-94.	2.3	43
114	Linear-scaling symmetric square-root decomposition of the overlap matrix. Journal of Chemical Physics, 2007, 126, 124104.	1.2	40
115	Accurate quantum-chemical calculations using Gaussian-type geminal and Gaussian-type orbital basis sets: applications to atoms and diatomics. Physical Chemistry Chemical Physics, 2007, 9, 3112.	1.3	40
116	Structural and Electronic Properties of Polyacetylene and Polyynes from Hybrid and Coulomb-Attenuated Density Functionals. Journal of Physical Chemistry A, 2007, 111, 11930-11935.	1.1	139
117	Explicit Electron Correlation by a Combined Use of Gaussian-Type Orbitals and Gaussian-Type Geminals. AIP Conference Proceedings, 2007, , .	0.3	0
118	Electron correlation: The many-body problem at the heart of chemistry. Journal of Computational Chemistry, 2007, 28, 1307-1320.	1.5	82
119	Assessment of a Coulomb-attenuated exchange-correlation energy functional. Physical Chemistry Chemical Physics, 2006, 8, 558-562.	1.3	437
120	Rotational g Tensors Calculated Using Hybrid Exchange-Correlation Functionals with the Optimized Effective Potential Approach. Journal of Chemical Theory and Computation, 2006, 2, 827-834.	2.3	14
121	Density-functional-theory study of the electric-field-induced second harmonic generation (EFISHG) of push-pull phenylpolyenes in solution. Chemical Physics Letters, 2006, 425, 267-272.	1.2	99
122	Choice of exchange-correlation functional for computing NMR indirect spin-spin coupling constants. Chemical Physics Letters, 2006, 425, 163-166.	1.2	54
123	The Equilibrium Structure of Ferrocene. ChemPhysChem, 2006, 7, 245-249.	1.0	149
124	A second-quantization framework for the unified treatment of relativistic and nonrelativistic molecular perturbations by response theory. Journal of Chemical Physics, 2006, 125, 024102.	1.2	6
125	Benchmarking two-photon absorption with CC3 quadratic response theory, and comparison with density-functional response theory. Journal of Chemical Physics, 2006, 124, 054322.	1.2	137
126	The magnetizability, rotational g tensor and quadrupole moment of the boron trihalides. Molecular Physics, 2006, 104, 847-856.	0.8	4

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127	Self-consistent field methods applied to large molecular systems. , 2006, , 1297-1297.		0
128	Towards black-box linear scaling optimization in Hartree-Fock and Kohn-Sham theories. , 2006, , 177-189.		0
129	The Rotational g Tensor as a Benchmark for Ab Initio Molecular Property Calculations. Advances in Quantum Chemistry, 2005, , 77-90.	0.4	5
130	Linear response at the 4-component relativistic density-functional level: application to the frequency-dependent dipole polarizability of Hg, AuH and PtH ₂ . Chemical Physics, 2005, 311, 187-201.	0.9	71
131	The accuracy of ab initio molecular geometries for systems containing second-row atoms. Journal of Chemical Physics, 2005, 123, 184107.	1.2	125
132	A computational study of some electric and magnetic properties of gaseous BF ₃ and BCl ₃ . Journal of Chemical Physics, 2005, 123, 114307.	1.2	9
133	The trust-region self-consistent field method in Kohn-Sham density-functional theory. Journal of Chemical Physics, 2005, 123, 074103.	1.2	31
134	Density-functional theory study of electric and magnetic properties of hexafluorobenzene in the vapor phase. Journal of Chemical Physics, 2005, 122, 234314.	1.2	27
135	Calculations of two-photon charge-transfer excitations using Coulomb-attenuated density-functional theory. Journal of Chemical Physics, 2005, 123, 184108.	1.2	112
136	A comparison of density-functional-theory and coupled-cluster frequency-dependent polarizabilities and hyperpolarizabilities. Molecular Physics, 2005, 103, 439-450.	0.8	74
137	Theoretical Studies of Nuclear Magnetic Resonance Parameters for the Proton-Exchange Pathways in Porphyrin and Porphycene. Journal of Physical Chemistry A, 2005, 109, 4162-4171.	1.1	22
138	The Rotational g Tensor as a Benchmark for Density-Functional Theory Calculations of Molecular Magnetic Properties. Journal of Chemical Theory and Computation, 2005, 1, 877-888.	2.3	30
139	Atmospheric Chemistry of CHF ₂ CHO: A Study of the IR and UV-Vis Absorption Cross Sections, Photolysis, and OH-, Cl-, and NO ₃ -Initiated Oxidation. Journal of Physical Chemistry A, 2005, 109, 3652-3662.	1.1	7
140	Quadratic Response Functions in a Second-Order Polarization Propagator Framework. Journal of Physical Chemistry A, 2005, 109, 11618-11628.	1.1	29
141	First-order relativistic corrections to response properties: the hyperpolarizability of the Ne atom. Journal of Physics B: Atomic, Molecular and Optical Physics, 2004, 37, 3753-3763.	0.6	21
142	A closed-shell coupled-cluster treatment of the Breit-Pauli first-order relativistic energy correction. Journal of Chemical Physics, 2004, 121, 6591-6598.	1.2	29
143	Coupled-cluster connected quadruples and quintuples corrections to the harmonic vibrational frequencies and equilibrium bond distances of HF, N ₂ , F ₂ , and CO. Journal of Chemical Physics, 2004, 121, 5874-5884.	1.2	125
144	Calculation of electric dipole hypershieldings at the nuclei in the Hellmann-Feynman approximation. Journal of Chemical Physics, 2004, 120, 3142-3151.	1.2	11

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145	Polarization consistent basis sets. V. The elements Si-Cl. Journal of Chemical Physics, 2004, 121, 3463-3470.	1.2	181
146	The expansion of hydrogen states in Gaussian orbitals. Theoretical Chemistry Accounts, 2004, 112, 124.	0.5	4
147	A priori calculation of molecular properties to chemical accuracy. Journal of Physical Organic Chemistry, 2004, 17, 913-933.	0.9	204
148	The performance of hybrid density functional theory for the calculation of indirect nuclear spin-spin coupling constants in substituted hydrocarbons. Magnetic Resonance in Chemistry, 2004, 42, S117-S127.	1.1	68
149	The Calculation of Indirect Nuclear Spin-Spin Coupling Constants in Large Molecules. Chemistry - A European Journal, 2004, 10, 4627-4639.	1.7	37
150	The NMR indirect nuclear spin-spin coupling constants for some small rigid hydrocarbons: molecular equilibrium values and vibrational corrections. Chemical Physics, 2004, 296, 53-62.	0.9	63
151	Density functional theory calculation of electronic circular dichroism using London orbitals. Chemical Physics Letters, 2004, 388, 110-119.	1.2	123
152	GIAO shielding constants and indirect spin-spin coupling constants: performance of density functional methods. Chemical Physics Letters, 2004, 391, 374-379.	1.2	87
153	The trust-region self-consistent field method: Towards a black-box optimization in Hartree-Fock and Kohn-Sham theories. Journal of Chemical Physics, 2004, 121, 16.	1.2	67
154	Conformational Effects on the Optical Rotation of Alanine and Proline. Journal of Physical Chemistry A, 2004, 108, 4269-4276.	1.1	103
155	Density-functional theory calculations of optical rotatory dispersion in the nonresonant and resonant frequency regions. Journal of Chemical Physics, 2004, 120, 5027-5035.	1.2	81
156	Potential Energy and Spin-Spin Coupling Constants Surface of Glycolaldehyde. Journal of Physical Chemistry A, 2004, 108, 2758-2769.	1.1	18
157	A comparison of polarization and bond functions for density functional calculations. Molecular Physics, 2004, 102, 2559-2562.	0.8	3
158	Spin-Spin Coupling Constants with HF and DFT Methods. , 2004, , 101-121.		25
159	Linear-scaling formation of Kohn-Sham Hamiltonian: Application to the calculation of excitation energies and polarizabilities of large molecular systems. Journal of Chemical Physics, 2004, 121, 2915-2931.	1.2	52
160	Density-functional generalized-gradient and hybrid calculations of electromagnetic properties using Slater basis sets. Journal of Chemical Physics, 2004, 120, 7252-7261.	1.2	28
161	Models of Fragmentations Induced by Electron Attachment to Protonated Peptides. European Journal of Mass Spectrometry, 2004, 10, 625-638.	0.5	58
162	Coupled-cluster connected-quadruples corrections to atomization energies. Chemical Physics Letters, 2003, 371, 62-67.	1.2	68

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163	Sternheimer shieldings and EFG polarizabilities: a density-functional theory study. <i>Chemical Physics Letters</i> , 2003, 372, 377-385.	1.2	4
164	Calculations of hydrogen-bond-transmitted indirect nuclear spin-spin couplings: a comparison of density-functional and ab initio methods. <i>Chemical Physics Letters</i> , 2003, 372, 476-484.	1.2	27
165	Calculations of two-photon absorption cross sections by means of density-functional theory. <i>Chemical Physics Letters</i> , 2003, 374, 446-452.	1.2	136
166	Characterization of dihydrogen-bonded D ₂ H ₂ ·H ₂ A complexes on the basis of infrared and magnetic resonance spectroscopic parameters. <i>Journal of Chemical Physics</i> , 2003, 119, 5094-5104.	1.2	66
167	The Spin-Spin Coupling Constants in Ethane, Methanol and Methylamine: A Comparison of DFT, MCSCF and CCSD Results. <i>International Journal of Molecular Sciences</i> , 2003, 4, 143-157.	1.8	39
168	Density-functional theory calculation of the nuclear magnetic resonance indirect nuclear spin-spin coupling constants in C ₆₀ . <i>Molecular Physics</i> , 2003, 101, 1997-2002.	0.8	18
169	Density functional theory of nonlinear triplet response properties with applications to phosphorescence. <i>Journal of Chemical Physics</i> , 2003, 119, 11024-11034.	1.2	79
170	Accuracy of spectroscopic constants of diatomic molecules from ab initio calculations. <i>Journal of Chemical Physics</i> , 2003, 118, 2539.	1.2	77
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