

Trygve Helgaker

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4804999/publications.pdf>

Version: 2024-02-01

349
papers

31,566
citations

6254

80
h-index

5679

162
g-index

371
all docs

371
docs citations

371
times ranked

12106
citing authors

#	ARTICLE	IF	CITATIONS
1	Basis-set convergence of correlated calculations on water. <i>Journal of Chemical Physics</i> , 1997, 106, 9639-9646.	3.0	2,197
2	Basis-set convergence in correlated calculations on Ne, N ₂ , and H ₂ O. <i>Chemical Physics Letters</i> , 1998, 286, 243-252.	2.6	1,989
3	Ab Initio Methods for the Calculation of NMR Shielding and Indirect Spin-Spin Coupling Constants. <i>Chemical Reviews</i> , 1999, 99, 293-352.	47.7	1,318
4	Excitation energies in density functional theory: An evaluation and a diagnostic test. <i>Journal of Chemical Physics</i> , 2008, 128, 044118.	3.0	1,190
5	The Dalton quantum chemistry program system. <i>Wiley Interdisciplinary Reviews: Computational Molecular Science</i> , 2014, 4, 269-284.	14.6	1,166
6	Basis-set convergence of the energy in molecular Hartree-Fock calculations. <i>Chemical Physics Letters</i> , 1999, 302, 437-446.	2.6	604
7	Recent Advances in Wave Function-Based Methods of Molecular-Property Calculations. <i>Chemical Reviews</i> , 2012, 112, 543-631.	47.7	549
8	Excitation energies from the coupled cluster singles and doubles linear response function (CCSDLR). Applications to Be, CH ₄ , CO, and H ₂ O. <i>Journal of Chemical Physics</i> , 1990, 93, 3345-3350.	3.0	529
9	Assessment of a Coulomb-attenuated exchange-correlation energy functional. <i>Physical Chemistry Chemical Physics</i> , 2006, 8, 558-562.	2.8	437
10	The CC3 model: An iterative coupled cluster approach including connected triples. <i>Journal of Chemical Physics</i> , 1997, 106, 1808-1818.	3.0	412
11	Basis set convergence of the interaction energy of hydrogen-bonded complexes. <i>Journal of Chemical Physics</i> , 1999, 111, 9157-9167.	3.0	363
12	Density-functional theory of linear and nonlinear time-dependent molecular properties. <i>Journal of Chemical Physics</i> , 2002, 117, 9630-9645.	3.0	359
13	The accurate determination of molecular equilibrium structures. <i>Journal of Chemical Physics</i> , 2001, 114, 6548-6556.	3.0	353
14	Analytical calculation of nuclear magnetic resonance indirect spin-spin coupling constants at the generalized gradient approximation and hybrid levels of density-functional theory. <i>Journal of Chemical Physics</i> , 2000, 113, 9402-9409.	3.0	345
15	The prediction of molecular equilibrium structures by the standard electronic wave functions. <i>Journal of Chemical Physics</i> , 1997, 106, 6430-6440.	3.0	333
16	An electronic Hamiltonian for origin independent calculations of magnetic properties. <i>Journal of Chemical Physics</i> , 1991, 95, 2595-2601.	3.0	320
17	Integration of the classical equations of motion on ab initio molecular potential energy surfaces using gradients and Hessians: application to translational energy release upon fragmentation. <i>Chemical Physics Letters</i> , 1990, 173, 145-150.	2.6	254
18	The quantum-chemical calculation of NMR indirect spin-spin coupling constants. <i>Progress in Nuclear Magnetic Resonance Spectroscopy</i> , 2008, 53, 249-268.	7.5	252

#	ARTICLE	IF	CITATIONS
19	Molecular equilibrium structures from experimental rotational constants and calculated vibration-rotation interaction constants. <i>Journal of Chemical Physics</i> , 2002, 116, 6482-6496.	3.0	245
20	Multiconfigurational self-consistent field calculations of nuclear shieldings using London atomic orbitals. <i>Journal of Chemical Physics</i> , 1994, 100, 8178-8185.	3.0	229
21	Vibrational Raman optical activity calculations using London atomic orbitals. <i>Faraday Discussions</i> , 1994, 99, 165-180.	3.2	225
22	Accuracy of atomization energies and reaction enthalpies in standard and extrapolated electronic wave function/basis set calculations. <i>Journal of Chemical Physics</i> , 2000, 112, 9229-9242.	3.0	224
23	Coupled cluster energy derivatives. Analytic Hessian for the closed-shell coupled cluster singles and doubles wave function: Theory and applications. <i>Journal of Chemical Physics</i> , 1990, 92, 4924-4940.	3.0	222
24	Quantitative quantum chemistry. <i>Molecular Physics</i> , 2008, 106, 2107-2143.	1.7	215
25	Highly accurate calculations of molecular electronic structure. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1999, 32, R103-R130.	1.5	214
26	A priori calculation of molecular properties to chemical accuracy. <i>Journal of Physical Organic Chemistry</i> , 2004, 17, 913-933.	1.9	204
27	Hartree-Fock limit magnetizabilities from London orbitals. <i>Journal of Chemical Physics</i> , 1993, 99, 3847-3859.	3.0	202
28	Perturbation-dependent atomic orbitals for the calculation of spin-rotation constants and rotational g tensors. <i>Journal of Chemical Physics</i> , 1996, 105, 2804-2812.	3.0	201
29	A multiconfigurational self-consistent reaction-field method. <i>Journal of Chemical Physics</i> , 1988, 89, 3086-3095.	3.0	198
30	Optical rotation studied by density-functional and coupled-cluster methods. <i>Chemical Physics Letters</i> , 2002, 352, 533-539.	2.6	192
31	Integral-direct coupled cluster calculations of frequency-dependent polarizabilities, transition probabilities and excited-state properties. <i>Journal of Chemical Physics</i> , 1998, 108, 2801-2816.	3.0	191
32	Møller-Plesset energy derivatives. <i>Journal of Chemical Physics</i> , 1988, 89, 1560-1570.	3.0	190
33	Configuration-interaction energy derivatives in a fully variational formulation. <i>Theoretica Chimica Acta</i> , 1989, 75, 111-127.	0.8	186
34	Gauge-origin independent multiconfigurational self-consistent-field theory for vibrational circular dichroism. <i>Journal of Chemical Physics</i> , 1993, 98, 8873-8887.	3.0	186
35	A systematic ab initio study of the water dimer in hierarchies of basis sets and correlation models. <i>Theoretical Chemistry Accounts</i> , 1997, 97, 150-157.	1.4	184
36	Large-scale calculations of excitation energies in coupled cluster theory: The singlet excited states of benzene. <i>Journal of Chemical Physics</i> , 1996, 105, 6921-6939.	3.0	182

#	ARTICLE	IF	CITATIONS
37	Polarization consistent basis sets. V. The elements Si–Cl. <i>Journal of Chemical Physics</i> , 2004, 121, 3463-3470.	3.0	181
38	Basis-set dependence of nuclear spin-spin coupling constants. <i>Theoretical Chemistry Accounts</i> , 1998, 99, 175-182.	1.4	175
39	Principles of direct 4-component relativistic SCF: application to caesium auride. <i>Molecular Physics</i> , 1997, 91, 937-950.	1.7	169
40	Analytical Calculation of Geometrical Derivatives in Molecular Electronic Structure Theory. <i>Advances in Quantum Chemistry</i> , 1988, 19, 183-245.	0.8	167
41	Gauge-Origin Independent Density-Functional Theory Calculations of Vibrational Raman Optical Activity. <i>Journal of Physical Chemistry A</i> , 2002, 106, 7448-7455.	2.5	162
42	Transition-state optimizations by trust-region image minimization. <i>Chemical Physics Letters</i> , 1991, 182, 503-510.	2.6	156
43	Vibrational corrections to indirect nuclear spin–spin coupling constants calculated by density-functional theory. <i>Journal of Chemical Physics</i> , 2003, 118, 9572-9581.	3.0	156
44	The integral–direct coupled cluster singles and doubles model. <i>Journal of Chemical Physics</i> , 1996, 104, 4157-4165.	3.0	154
45	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.	3.0	153
46	The Equilibrium Structure of Ferrocene. <i>ChemPhysChem</i> , 2006, 7, 245-249.	2.1	149
47	Multiconfigurational quadratic response functions for singlet and triplet perturbations: The phosphorescence lifetime of formaldehyde. <i>Journal of Chemical Physics</i> , 1992, 97, 9178-9187.	3.0	148
48	Indirect nuclear spin–spin coupling constants from multiconfiguration linear response theory. <i>Journal of Chemical Physics</i> , 1992, 96, 6120-6125.	3.0	147
49	Four-component relativistic Kohn-Sham theory. <i>Journal of Computational Chemistry</i> , 2002, 23, 814-823.	3.3	147
50	Dynamics of the reaction $\text{CH}_2\text{OH} + \text{CHO} + \text{H}_2$. Translational energy release from ab initio trajectory calculations. <i>Journal of the American Chemical Society</i> , 1992, 114, 4265-4268.	13.7	141
51	Structural and Electronic Properties of Polyacetylene and Polyynes from Hybrid and Coulomb-Attenuated Density Functionals. <i>Journal of Physical Chemistry A</i> , 2007, 111, 11930-11935.	2.5	139
52	Benchmarking two-photon absorption with CC3 quadratic response theory, and comparison with density-functional response theory. <i>Journal of Chemical Physics</i> , 2006, 124, 054322.	3.0	137
53	Calculations of two-photon absorption cross sections by means of density-functional theory. <i>Chemical Physics Letters</i> , 2003, 374, 446-452.	2.6	136
54	A direct atomic orbital driven implementation of the coupled cluster singles and doubles (CCSD) model. <i>Chemical Physics Letters</i> , 1994, 228, 233-238.	2.6	126

#	ARTICLE	IF	CITATIONS
55	Coupled-cluster connected quadruples and quintuples corrections to the harmonic vibrational frequencies and equilibrium bond distances of HF, N ₂ , F ₂ , and CO. <i>Journal of Chemical Physics</i> , 2004, 121, 5874-5884.	3.0	125
56	The accuracy of ab initio molecular geometries for systems containing second-row atoms. <i>Journal of Chemical Physics</i> , 2005, 123, 1841-107.	3.0	125
57	Density functional theory calculation of electronic circular dichroism using London orbitals. <i>Chemical Physics Letters</i> , 2004, 388, 110-119.	2.6	123
58	A Paramagnetic Bonding Mechanism for Diatomics in Strong Magnetic Fields. <i>Science</i> , 2012, 337, 327-331.	12.6	123
59	First-order one-electron properties in the integral-direct coupled cluster singles and doubles model. <i>Journal of Chemical Physics</i> , 1997, 107, 849-866.	3.0	122
60	Rovibrational effects, temperature dependence, and isotope effects on the nuclear shielding tensors of water: A new ¹⁷ O absolute shielding scale. <i>Journal of Chemical Physics</i> , 1998, 109, 8388-8397.	3.0	115
61	Basis-set convergence of the molecular electric dipole moment. <i>Journal of Chemical Physics</i> , 1999, 111, 4424-4430.	3.0	114
62	Calculations of two-photon charge-transfer excitations using Coulomb-attenuated density-functional theory. <i>Journal of Chemical Physics</i> , 2005, 123, 1841-108.	3.0	112
63	Molecular Hessians for large-scale MCSCF wave functions. <i>Journal of Chemical Physics</i> , 1986, 84, 6266-6279.	3.0	109
64	The efficient optimization of molecular geometries using redundant internal coordinates. <i>Journal of Chemical Physics</i> , 2002, 117, 9160-9174.	3.0	109
65	Nuclear shielding constants by density functional theory with gauge including atomic orbitals. <i>Journal of Chemical Physics</i> , 2000, 113, 2983-2989.	3.0	104
66	Conformational Effects on the Optical Rotation of Alanine and Proline. <i>Journal of Physical Chemistry A</i> , 2004, 108, 4269-4276.	2.5	103
67	Density-functional-theory study of the electric-field-induced second harmonic generation (EFISHG) of push-pull phenylpolyenes in solution. <i>Chemical Physics Letters</i> , 2006, 425, 267-272.	2.6	99
68	Nonperturbative <i>ab initio</i> calculations in strong magnetic fields using London orbitals. <i>Journal of Chemical Physics</i> , 2008, 129, 1541-114.	3.0	99
69	The molecular structure of ferrocene. <i>Journal of Chemical Physics</i> , 1996, 104, 9528-9530.	3.0	98
70	Direct atomic orbital based self-consistent field calculations of nonlinear molecular properties. Application to the frequency dependent hyperpolarizability of para-nitroaniline. <i>Journal of Chemical Physics</i> , 1993, 98, 6417-6423.	3.0	94
71	A numerically stable procedure for calculating Møller-Plesset energy derivatives, derived using the theory of Lagrangians. <i>Theoretica Chimica Acta</i> , 1989, 76, 227-245.	0.8	92
72	Spin-orbit coupling constants in a multiconfiguration linear response approach. <i>Journal of Chemical Physics</i> , 1992, 96, 2118-2126.	3.0	90

#	ARTICLE	IF	CITATIONS
73	Electric field dependence of magnetic properties: Multiconfigurational self-consistent field calculations of hypermagnetizabilities and nuclear shielding polarizabilities of N ₂ , C ₂ H ₂ , HCN, and H ₂ O. <i>Journal of Chemical Physics</i> , 1995, 102, 8953-8966.	3.0	89
74	GIAO shielding constants and indirect spin-spin coupling constants: performance of density functional methods. <i>Chemical Physics Letters</i> , 2004, 391, 374-379.	2.6	87
75	Linear-scaling implementation of molecular response theory in self-consistent field electronic-structure theory. <i>Journal of Chemical Physics</i> , 2007, 126, 154108.	3.0	87
76	Accurate calculation and modeling of the adiabatic connection in density functional theory. <i>Journal of Chemical Physics</i> , 2010, 132, 164115.	3.0	86
77	Ab initio. <i>Theoretica Chimica Acta</i> , 1995, 90, 441.	0.8	86
78	A second-quantization approach to the analytical evaluation of response properties for perturbation-dependent basis sets. <i>International Journal of Quantum Chemistry</i> , 1984, 26, 275-291.	2.0	82
79	Multiple basis sets in calculations of triples corrections in coupled-cluster theory. <i>Theoretical Chemistry Accounts</i> , 1997, 97, 164-176.	1.4	82
80	Electron correlation: The many-body problem at the heart of chemistry. <i>Journal of Computational Chemistry</i> , 2007, 28, 1307-1320.	3.3	82
81	Density-functional theory calculations of optical rotatory dispersion in the nonresonant and resonant frequency regions. <i>Journal of Chemical Physics</i> , 2004, 120, 5027-5035.	3.0	81
82	Divergence in Møller-Plesset theory: A simple explanation based on a two-state model. <i>Journal of Chemical Physics</i> , 2000, 112, 9736-9748.	3.0	79
83	Density functional theory of nonlinear triplet response properties with applications to phosphorescence. <i>Journal of Chemical Physics</i> , 2003, 119, 11024-11034.	3.0	79
84	Linear-scaling implementation of molecular electronic self-consistent field theory. <i>Journal of Chemical Physics</i> , 2007, 126, 114110.	3.0	78
85	Accurate magnetizabilities of the isoelectronic series BeH ⁺ , BH, and CH ⁺ . The MCSCF-GIAO approach. <i>Chemical Physics</i> , 1995, 195, 157-169.	1.9	77
86	Accuracy of spectroscopic constants of diatomic molecules from ab initio calculations. <i>Journal of Chemical Physics</i> , 2003, 118, 2539.	3.0	77
87	Variational and robust density fitting of four-center two-electron integrals in local metrics. <i>Journal of Chemical Physics</i> , 2008, 129, 104101.	3.0	75
88	Automated calculation of fundamental frequencies: Application to AlH ₃ using the coupled-cluster singles-and-doubles with perturbative triples method. <i>Journal of Chemical Physics</i> , 2003, 119, 1951-1960.	3.0	74
89	A comparison of density-functional-theory and coupled-cluster frequency-dependent polarizabilities and hyperpolarizabilities. <i>Molecular Physics</i> , 2005, 103, 439-450.	1.7	74
90	Magnetizability of Hydrocarbons. <i>Journal of the American Chemical Society</i> , 1994, 116, 10135-10140.	13.7	73

#	ARTICLE	IF	CITATIONS
91	CCSDT calculations of molecular equilibrium geometries. <i>Chemical Physics Letters</i> , 1997, 274, 235-241.	2.6	73
92	Direct optimization of the AO density matrix in Hartree-Fock and Kohn-Sham theories. <i>Chemical Physics Letters</i> , 2000, 327, 397-403.	2.6	72
93	Coupled-cluster theory for atoms and molecules in strong magnetic fields. <i>Journal of Chemical Physics</i> , 2015, 143, 074110.	3.0	72
94	Linear response at the 4-component relativistic density-functional level: application to the frequency-dependent dipole polarizability of Hg, AuH and PtH ₂ . <i>Chemical Physics</i> , 2005, 311, 187-201.	1.9	71
95	The Molecular Structures of Dimethyl-, Diethyl- and Dipropylzinc Determined by Gas Phase Electron Diffraction. Normal Coordinate Analysis and ab initio Molecular Orbital Calculations on Dimethylzinc.. <i>Acta Chemica Scandinavica</i> , 1982, 36a, 159-166.	0.7	71
96	Electric and magnetic properties of fullerenes. <i>Journal of Chemical Physics</i> , 1998, 109, 572-577.	3.0	70
97	Spin-spin coupling tensors by density-functional linear response theory. <i>Journal of Chemical Physics</i> , 2002, 117, 5998-6009.	3.0	70
98	A gradient extremal walking algorithm. <i>Theoretica Chimica Acta</i> , 1988, 73, 55-65.	0.8	69
99	Gaussian basis sets for high-quality ab initio calculations. <i>The Journal of Physical Chemistry</i> , 1988, 92, 3029-3033.	2.9	69
100	Coupled-cluster connected-quadruples corrections to atomization energies. <i>Chemical Physics Letters</i> , 2003, 371, 62-67.	2.6	68
101	The performance of hybrid density functional theory for the calculation of indirect nuclear spin-spin coupling constants in substituted hydrocarbons. <i>Magnetic Resonance in Chemistry</i> , 2004, 42, S117-S127.	1.9	68
102	Orbital connections for perturbation-dependent basis sets. <i>Theoretica Chimica Acta</i> , 1995, 90, 421-439.	0.8	67
103	The accuracy of molecular dipole moments in standard electronic structure calculations. <i>Chemical Physics Letters</i> , 2000, 319, 563-568.	2.6	67
104	The trust-region self-consistent field method: Towards a black-box optimization in Hartree-Fock and Kohn-Sham theories. <i>Journal of Chemical Physics</i> , 2004, 121, 16.	3.0	67
105	Attractive electron-electron interactions within robust local fitting approximations. <i>Journal of Computational Chemistry</i> , 2013, 34, 1486-1496.	3.3	67
106	Non-perturbative calculation of molecular magnetic properties within current-density functional theory. <i>Journal of Chemical Physics</i> , 2014, 140, 034101.	3.0	67
107	Ground-state potential energy surface of diazene. <i>Journal of the American Chemical Society</i> , 1987, 109, 2895-2901.	13.7	66
108	Characterization of dihydrogen-bonded D-H...A complexes on the basis of infrared and magnetic resonance spectroscopic parameters. <i>Journal of Chemical Physics</i> , 2003, 119, 5094-5104.	3.0	66

#	ARTICLE	IF	CITATIONS
109	Current Density Functional Theory Using Meta-Generalized Gradient Exchange-Correlation Functionals. <i>Journal of Chemical Theory and Computation</i> , 2015, 11, 4169-4181.	5.3	66
110	Gauge-origin independent magneto-optical activity within coupled cluster response theory. <i>Journal of Chemical Physics</i> , 2000, 113, 3561-3572.	3.0	64
111	The calculation of adiabatic-connection curves from full configuration-interaction densities: Two-electron systems. <i>Journal of Chemical Physics</i> , 2009, 130, 104111.	3.0	64
112	The NMR indirect nuclear spin-spin coupling constants for some small rigid hydrocarbons: molecular equilibrium values and vibrational corrections. <i>Chemical Physics</i> , 2004, 296, 53-62.	1.9	63
113	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.	3.0	60
114	Multi-electron integrals. <i>Wiley Interdisciplinary Reviews: Computational Molecular Science</i> , 2012, 2, 290-303.	14.6	60
115	GAUSSIAN BASIS SETS AND MOLECULAR INTEGRALS. <i>Advanced Series in Physical Chemistry</i> , 1995, , 725-856.	1.5	59
116	Rovibrationally averaged magnetizability, rotational g factor, and indirect spin-spin coupling of the hydrogen fluoride molecule. <i>Journal of Chemical Physics</i> , 1999, 110, 9463-9468.	3.0	59
117	Non-perturbative magnetic phenomena in closed-shell paramagnetic molecules. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 5489.	2.8	59
118	Magnetizability and nuclear shielding constants of solvated water. <i>Chemical Physics Letters</i> , 1996, 253, 443-447.	2.6	58
119	Solvent effects on nuclear shieldings and spin-spin couplings of hydrogen selenide. <i>Journal of Chemical Physics</i> , 1998, 108, 2528-2537.	3.0	58
120	Coupled-cluster singles, doubles and triples (CCSDT) calculations of atomization energies. <i>Chemical Physics Letters</i> , 2000, 317, 116-122.	2.6	58
121	Models of Fragmentations Induced by Electron Attachment to Protonated Peptides. <i>European Journal of Mass Spectrometry</i> , 2004, 10, 625-638.	1.0	58
122	The ab initio calculation of molecular electric, magnetic and geometric properties. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 2627-2651.	2.8	58
123	A multipole reaction-field model for gauge-origin independent magnetic properties of solvated molecules. <i>Journal of Chemical Physics</i> , 1997, 106, 1170-1180.	3.0	57
124	A Lagrangian, integral-density direct formulation and implementation of the analytic CCSD and CCSD(T) gradients. <i>Journal of Chemical Physics</i> , 2003, 118, 2985-2998.	3.0	57
125	Hartree-Fock and Kohn-Sham atomic-orbital based time-dependent response theory. <i>Journal of Chemical Physics</i> , 2000, 113, 8908-8917.	3.0	56
126	Spin-spin coupling constants and triplet instabilities in Kohn-Sham theory. <i>Molecular Physics</i> , 2010, 108, 2579-2590.	1.7	55

#	ARTICLE	IF	CITATIONS
127	Choice of exchange-correlation functional for computing NMR indirect spin-spin coupling constants. <i>Chemical Physics Letters</i> , 2006, 425, 163-166.	2.6	54
128	Integral direct calculation of CC2 excitation energies: singlet excited states of benzene. <i>Chemical Physics Letters</i> , 1996, 263, 530-539.	2.6	53
129	Linear-scaling formation of Kohn-Sham Hamiltonian: Application to the calculation of excitation energies and polarizabilities of large molecular systems. <i>Journal of Chemical Physics</i> , 2004, 121, 2915-2931.	3.0	52
130	Choice of basic variables in current-density-functional theory. <i>Physical Review A</i> , 2012, 86, .	2.5	52
131	Atomic Charges of the Water Molecule and the Water Dimer. <i>Journal of Physical Chemistry A</i> , 1998, 102, 7686-7691.	2.5	51
132	Maps of current density using density-functional methods. <i>Journal of Chemical Physics</i> , 2008, 129, 074101.	3.0	50
133	Calculation of Geometrical Derivatives in Molecular Electronic Structure Theory. <i>NATO ASI Series Series B: Physics</i> , 1992, , 353-421.	0.2	49
134	Frequency-dependent polarizabilities of O ₂ and van der Waals coefficients of dimers containing O ₂ . <i>Journal of Chemical Physics</i> , 1994, 100, 1297-1302.	3.0	48
135	Differentiable but exact formulation of density-functional theory. <i>Journal of Chemical Physics</i> , 2014, 140, 18A518.	3.0	48
136	Efficient parallel implementation of response theory: Calculations of the second hyperpolarizability of polyacenes. <i>Chemical Physics Letters</i> , 1996, 253, 1-7.	2.6	47
137	Influence of External Force on Properties and Reactivity of Disulfide Bonds. <i>Journal of Physical Chemistry A</i> , 2011, 115, 2308-2315.	2.5	47
138	Spin polarization in restricted electronic structure theory: Multiconfiguration self-consistent-field calculations of hyperfine coupling constants. <i>Journal of Chemical Physics</i> , 1992, 97, 3412-3419.	3.0	46
139	Ab initio calculation of electronic circular dichroism for trans-cyclooctene using London atomic orbitals. <i>Theoretica Chimica Acta</i> , 1995, 90, 441-458.	0.8	46
140	The magnetizability, rotational g tensor, and quadrupole moment of PF ₃ revisited. <i>Chemical Physics Letters</i> , 1997, 264, 17-23.	2.6	46
141	The effect of correlation on molecular magnetizabilities and rotational g tensors. <i>Journal of Chemical Physics</i> , 1997, 107, 10599-10606.	3.0	45
142	The augmented Roothaan-Hall method for optimizing Hartree-Fock and Kohn-Sham density matrices. <i>Journal of Chemical Physics</i> , 2008, 129, 124106.	3.0	45
143	Dalton Project: A Python platform for molecular- and electronic-structure simulations of complex systems. <i>Journal of Chemical Physics</i> , 2020, 152, 214115.	3.0	45
144	Parity-violating interaction in H ₂ O ₂ calculated from density-functional theory. <i>Chemical Physics Letters</i> , 2002, 354, 274-282.	2.6	44

#	ARTICLE	IF	CITATIONS
145	Assessment of theoretical methods for the determination of the mechanochemical strength of covalent bonds. <i>Molecular Physics</i> , 2009, 107, 2537-2546.	1.7	44
146	Analytical calculation of MCSCF dipole moment derivatives. <i>Journal of Chemical Physics</i> , 1986, 84, 6280-6284.	3.0	43
147	Molecular wave functions and properties calculated using floating Gaussian orbitals. <i>Journal of Chemical Physics</i> , 1988, 89, 4889-4902.	3.0	43
148	Density-Functional and Coupled-Cluster Singles-and-Doubles Calculations of the Nuclear Shielding and Indirect Nuclear Spin-Spin Coupling Constants of o-Benzynes. <i>Journal of Chemical Theory and Computation</i> , 2007, 3, 86-94.	5.3	43
149	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.	2.8	43
150	Second-order Møller-Plesset perturbation theory with terms linear in the interelectronic coordinates and exact evaluation of three-electron integrals. <i>Theoretical Chemistry Accounts</i> , 2002, 107, 173-179.	1.4	42
151	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.	3.0	42
152	Spin flipping in ring-coupled-cluster-doubles theory. <i>Chemical Physics Letters</i> , 2011, 510, 147-153.	2.6	42
153	Analyzing Magnetically Induced Currents in Molecular Systems Using Current-Density-Functional Theory. <i>Journal of Physical Chemistry A</i> , 2020, 124, 1321-1333.	2.5	42
154	Direct optimization of the atomic-orbital density matrix using the conjugate-gradient method with a multilevel preconditioner. <i>Journal of Chemical Physics</i> , 2001, 115, 9685-9697.	3.0	41
155	Higher molecular-deformation derivatives of the configuration-interaction energy. <i>Chemical Physics</i> , 1984, 86, 413-432.	1.9	40
156	Chemical accuracy from \hat{C} -Coulomb hole extrapolated molecular quantum-mechanical calculations. <i>Journal of Molecular Structure</i> , 2001, 567-568, 375-384.	3.6	40
157	Linear-scaling symmetric square-root decomposition of the overlap matrix. <i>Journal of Chemical Physics</i> , 2007, 126, 124104.	3.0	40
158	Accurate quantum-chemical calculations using Gaussian-type geminal and Gaussian-type orbital basis sets: applications to atoms and diatomics. <i>Physical Chemistry Chemical Physics</i> , 2007, 9, 3112.	2.8	40
159	MCSCF calculations of hypermagnetizabilities and nuclear shielding polarizabilities of CO and CH ₄ . <i>Molecular Physics</i> , 1996, 88, 931-947.	1.7	39
160	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.	4.1	39
161	The nuclear spin-spin coupling in N ₂ and CO. <i>Chemical Physics Letters</i> , 1993, 209, 201-206.	2.6	38
162	Basis-set convergence of the two-electron Darwin term. <i>Chemical Physics Letters</i> , 2000, 319, 287-295.	2.6	38

#	ARTICLE	IF	CITATIONS
163	Computation of two-electron Gaussian integrals for wave functions including the correlation factor $r_{12}\exp(\hat{a}^{\dagger}\hat{r}_{12})$. <i>Computer Physics Communications</i> , 2002, 149, 1-10.	7.5	38
164	Communication: Analytic gradients in the random-phase approximation. <i>Journal of Chemical Physics</i> , 2013, 139, 081101.	3.0	38
165	Analytic cubic and quartic force fields using density-functional theory. <i>Journal of Chemical Physics</i> , 2014, 140, 034103.	3.0	38
166	Fractional Electron Loss in Approximate DFT and Hartree-Fock Theory. <i>Journal of Chemical Theory and Computation</i> , 2015, 11, 5262-5268.	5.3	38
167	The Calculation of Indirect Nuclear Spin-Spin Coupling Constants in Large Molecules. <i>Chemistry - A European Journal</i> , 2004, 10, 4627-4639.	3.3	37
168	Implementation of the incremental scheme for one-electron first-order properties in coupled-cluster theory. <i>Journal of Chemical Physics</i> , 2009, 131, 154102.	3.0	37
169	Alternative separation of exchange and correlation energies in multi-configuration range-separated density-functional theory. <i>Journal of Chemical Physics</i> , 2013, 139, 134113.	3.0	37
170	On the evaluation of derivatives of Gaussian integrals. <i>Theoretica Chimica Acta</i> , 1992, 83, 177-183.	0.8	36
171	Geometrical derivatives and magnetic properties in atomic-orbital density-based Hartree-Fock theory. <i>Journal of Chemical Physics</i> , 2001, 115, 10344.	3.0	36
172	NMR Shielding Tensors and Indirect Spin-Spin Coupling Tensors in HCN, HNC, CH ₃ CN, and CH ₃ NC Molecules. <i>Journal of Magnetic Resonance Series A</i> , 1995, 114, 212-218.	1.6	35
173	Efficient elimination of response parameters in molecular property calculations for variational and nonvariational energies. <i>Journal of Chemical Physics</i> , 2008, 129, 214103.	3.0	35
174	The importance of current contributions to shielding constants in density-functional theory. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 18834-18842.	2.8	35
175	Solvent effects on the NMR parameters of H ₂ S and HCN. <i>Journal of Computational Chemistry</i> , 1999, 20, 1281-1291.	3.3	34
176	Interconversion of diborane (4) isomers. <i>Journal of Chemical Physics</i> , 1992, 97, 1211-1216.	3.0	33
177	Accurate molecular geometries of the protonated water dimer. <i>Physical Chemistry Chemical Physics</i> , 2000, 2, 2235-2238.	2.8	33
178	A unified scheme for the calculation of differentiated and undifferentiated molecular integrals over solid-harmonic Gaussians. <i>Physical Chemistry Chemical Physics</i> , 2007, 9, 4771.	2.8	33
179	Orbital connections for perturbation-dependent basis sets. <i>Theoretica Chimica Acta</i> , 1995, 90, 421.	0.8	33
180	Basis set convergence and correlation effects in vibrational circular dichroism calculations using London atomic orbitals. <i>Faraday Discussions</i> , 1994, 99, 121-129.	3.2	32

#	ARTICLE	IF	CITATIONS
181	Energetics and Dynamics of Intermolecular Proton-Transfer Processes. 2. Ab Initio Direct Dynamics Calculations of the Reaction $\text{H}_3\text{O}^{++} + \text{NH}_3 \rightarrow \text{NH}_4^{++} + \text{H}_2\text{O}$. The Journal of Physical Chemistry, 1996, 100, 15388-15392.	2.9	32
182	Magnetizabilities and Nuclear Shielding Constants of the Fluoromethanes in the Gas Phase and Solution. The Journal of Physical Chemistry, 1996, 100, 19771-19782.	2.9	32
183	Direct perturbation theory of magnetic properties and relativistic corrections for the point nuclear and Gaussian nuclear models. Journal of Chemical Physics, 2001, 115, 7356-7363.	3.0	32
184	Magnetic-Field Density-Functional Theory (BDFT): Lessons from the Adiabatic Connection. Journal of Chemical Theory and Computation, 2017, 13, 4089-4100.	5.3	32
185	First-order nonadiabatic coupling matrix elements from multiconfigurational self-consistent field response theory. Journal of Chemical Physics, 1992, 97, 7573-7584.	3.0	31
186	Frequency dependent hyperpolarizabilities of polyynes. Journal of Chemical Physics, 1993, 98, 7229-7235.	3.0	31
187	Random-phase calculations of frequency-dependent polarizabilities and hyperpolarizabilities of long polyene chains. Physical Review B, 1995, 51, 14949-14957.	3.2	31
188	The trust-region self-consistent field method in Kohn-Sham density-functional theory. Journal of Chemical Physics, 2005, 123, 074103.	3.0	31
189	Theoretical calculations of the magnetizability of some small fluorine-containing molecules using London atomic orbitals. Chemical Physics Letters, 1994, 223, 12-18.	2.6	30
190	Extrapolation to the limit of a complete basis set for electronic structure calculations on the N_2 molecule. Theoretical Chemistry Accounts, 1998, 99, 265-271.	1.4	30
191	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.	5.3	30
192	Range-dependent adiabatic connections. Journal of Chemical Physics, 2010, 133, 164112.	3.0	30
193	Systematic determination of MCSCF equilibrium and transition structures and reaction paths. Journal of Chemical Physics, 1986, 85, 3917-3929.	3.0	29
194	Large scale random phase calculations for direct self-consistent field wavefunctions. Chemical Physics, 1993, 172, 13-20.	1.9	29
195	MCSCF calculations of Verdet constants. Chemical Physics Letters, 1994, 222, 263-266.	2.6	29
196	Multiconfigurational self-consistent field calculations of nuclear magnetic resonance indirect spin-spin coupling constants. Journal of Chemical Physics, 1994, 101, 6822-6828.	3.0	29
197	Cotton-Mouton effect and shielding polarizabilities of ethylene: An MCSCF study. Chemical Physics, 1997, 216, 53-66.	1.9	29
198	A closed-shell coupled-cluster treatment of the Breit-Pauli first-order relativistic energy correction. Journal of Chemical Physics, 2004, 121, 6591-6598.	3.0	29

#	ARTICLE	IF	CITATIONS
199	Quadratic Response Functions in a Second-Order Polarization Propagator Framework. Journal of Physical Chemistry A, 2005, 109, 11618-11628.	2.5	29
200	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. Journal of Chemical Theory and Computation, 2016, 12, 3514-3522.	5.3	29
201	Basis set convergence of atomic axial tensors obtained from self-consistent field calculations using London atomic orbitals. Journal of Chemical Physics, 1994, 100, 6620-6627.	3.0	28
202	Density-functional generalized-gradient and hybrid calculations of electromagnetic properties using Slater basis sets. Journal of Chemical Physics, 2004, 120, 7252-7261.	3.0	28
203	A numerically stable orbital connection for the calculation of analytical Hessians using perturbation-dependent basis sets. Chemical Physics Letters, 1995, 235, 47-52.	2.6	27
204	Ab initio calculation of the NMR shielding and indirect spin-spin coupling constants of fluoroethylene. Molecular Physics, 1997, 91, 881-890.	1.7	27
205	Calculations of hydrogen-bond-transmitted indirect nuclear spin-spin couplings: a comparison of density-functional and ab initio methods. Chemical Physics Letters, 2003, 372, 476-484.	2.6	27
206	Density-functional theory study of electric and magnetic properties of hexafluorobenzene in the vapor phase. Journal of Chemical Physics, 2005, 122, 234314.	3.0	27
207	Static and Frequency-Dependent Dipole-Dipole Polarizabilities of All Closed-Shell Atoms up to Radium: A Four-Component Relativistic DFT Study. ChemPhysChem, 2008, 9, 445-453.	2.1	27
208	Vibrationally averaged magnetizabilities and rotational g tensors of the water molecule. Chemical Physics Letters, 1998, 297, 467-474.	2.6	25
209	Spin-Spin Coupling Constants with HF and DFT Methods. , 2004, , 101-121.		25
210	Should Gaseous BF ₃ and SiF ₄ Be Described as Ionic Compounds?. Journal of Chemical Education, 2000, 77, 1076.	2.3	24
211	The geminal basis in explicitly correlated wave functions. Chemical Physics, 2009, 356, 25-30.	1.9	24
212	Bethe-Salpeter correlation energies of atoms and molecules. Journal of Chemical Physics, 2018, 149, 144106.	3.0	24
213	Ab initio molecular dynamics with screened Lorentz forces. I. Calculation and atomic charge interpretation of Berry curvature. Journal of Chemical Physics, 2021, 155, 024104.	3.0	23
214	Accurate calculations of the dynamic dipole polarizability of N ₂ . A multiconfigurational linear response study using restricted active space (RAS) wavefunctions. Chemical Physics Letters, 1989, 162, 355-360.	2.6	22
215	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.	2.5	22
216	³³ S hyperfine interactions in H ₂ S and SO ₂ and revision of the sulfur nuclear magnetic shielding scale. Journal of Chemical Physics, 2013, 139, 244308.	3.0	22

#	ARTICLE	IF	CITATIONS
217	Mechanochemistry: The Effect of Dynamics. Journal of Physical Chemistry A, 2014, 118, 7683-7694.	2.5	22
218	Ab initio study of the NMR shielding constants and spin-spin coupling constants in cyclopropene. Theoretica Chimica Acta, 1993, 87, 19-28.	0.8	21
219	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.	1.5	21
220	Dispersion interactions in density-functional theory: An adiabatic-connection analysis. Journal of Chemical Physics, 2011, 135, 194109.	3.0	21
221	Charge-constrained auxiliary-density-matrix methods for the Hartree-Fock exchange contribution. Journal of Chemical Physics, 2014, 141, 094104.	3.0	21
222	Kohn-Sham energy decomposition for molecules in a magnetic field. Molecular Physics, 2019, 117, 97-109.	1.7	21
223	<i>GW</i> quasiparticle energies of atoms in strong magnetic fields. Journal of Chemical Physics, 2019, 150, 214112.	3.0	21
224	The calculation of molecular geometrical properties in the Hellmann-Feynman approximation. Molecular Physics, 1999, 96, 653-671.	1.7	21
225	The Cotton-Mouton effect of liquid water. Part I: The dielectric continuum model. Journal of Chemical Physics, 1997, 107, 894-901.	3.0	20
226	The Cotton-Mouton effect of liquid water. Part II: The semi-continuum model. Journal of Chemical Physics, 1998, 108, 599-603.	3.0	20
227	An efficient density-functional-theory force evaluation for large molecular systems. Journal of Chemical Physics, 2010, 133, 044102.	3.0	20
228	Calculation of NMR Spin-Spin Coupling Constants in Strychnine. Journal of Organic Chemistry, 2016, 81, 11496-11500.	3.2	20
229	Uniform magnetic fields in density-functional theory. Journal of Chemical Physics, 2018, 148, 024101.	3.0	20
230	Mechanism, energetics, kinetics and dynamics of the reaction $C_2H_6 + \dot{E} \rightarrow C_2H_4 + \dot{E} + H_2$. Organic Mass Spectrometry, 1993, 28, 1262-1269.	1.3	19
231	Long-range effects of interatomic interactions on NMR shielding constants. Chemical Physics Letters, 1996, 250, 1-8.	2.6	19
232	MCSCF calculations of nitrogen NMR shielding constants using London atomic orbitals. Chemical Physics Letters, 1994, 220, 154-160.	2.6	18
233	Efficient evaluation of one-center three-electron Gaussian integrals. Theoretical Chemistry Accounts, 2001, 106, 280-286.	1.4	18
234	Density-functional theory calculation of the nuclear magnetic resonance indirect nuclear spin-spin coupling constants in C ₆₀ . Molecular Physics, 2003, 101, 1997-2002.	1.7	18

#	ARTICLE	IF	CITATIONS
235	Potential Energy and Spin-Spin Coupling Constants Surface of Glycolaldehyde. <i>Journal of Physical Chemistry A</i> , 2004, 108, 2758-2769.	2.5	18
236	Electronic circular dichroism of disulphide bridge: Ab initio quantum-chemical calculations. <i>Journal of Chemical Physics</i> , 2007, 127, 085102.	3.0	18
237	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.	3.3	18
238	Atoms and molecules in soft confinement potentials. <i>Molecular Physics</i> , 2020, 118, e1730989.	1.7	18
239	The magnetic hyperpolarizability anisotropy of the neon atom. <i>Chemical Physics Letters</i> , 1992, 191, 599-602.	2.6	17
240	Full CI calculations of the magnetizability and rotational g factor of the hydrogen molecule. <i>Computational and Theoretical Chemistry</i> , 1996, 388, 231-235.	1.5	17
241	Mechanisms, energetics and dynamics of a key reaction sequence during the decomposition of nitromethane: $\text{HNO} + \text{HNO} \rightarrow \text{N}_2\text{O} + \text{H}_2\text{O}$. <i>Computational and Theoretical Chemistry</i> , 1997, 393, 59-71.	1.5	17
242	Excitation energies along a range-separated adiabatic connection. <i>Journal of Chemical Physics</i> , 2014, 141, 044123.	3.0	17
243	An ab initio nuclear magnetic resonance spectrum of vinyl lithium. <i>Chemical Physics Letters</i> , 1994, 226, 1-10.	2.6	16
244	The Hartree-Fock magnetizability of C_{60} . <i>Chemical Physics Letters</i> , 1998, 285, 205-209.	2.6	16
245	Generalized integral-screening for efficient calculations of nonlinear optical properties of large molecules. <i>Journal of Chemical Physics</i> , 1998, 108, 7973-7979.	3.0	16
246	A ground-state-directed optimization scheme for the Kohn-Sham energy. <i>Physical Chemistry Chemical Physics</i> , 2008, 10, 5344.	2.8	16
247	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.	3.0	16
248	Ab initio calculation of the NMR shielding and indirect spin-spin coupling constants of fluoroethylene. <i>Molecular Physics</i> , 1997, 91, 881-889.	1.7	16
249	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.	2.8	15
250	The NMR indirect nuclear spin-spin coupling constant of the HD molecule. <i>Molecular Physics</i> , 2012, 110, 2611-2617.	1.7	15
251	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.	2.8	15
252	Hamiltonian Expansion in Geometrical Distortions. , 1986, , 1-16.		15

#	ARTICLE	IF	CITATIONS
253	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.	3.0	15
254	Excited state structures and vibronic spectra of H ₂ CO ⁺ , HDCO ⁺ , and D ₂ CO ⁺ using molecular gradient and Hessian techniques. <i>Journal of Chemical Physics</i> , 1991, 95, 5906-5917.	3.0	14
255	The magnetizability anisotropy and rotational g factor of deuterium hydride and the deuterium molecule. <i>Chemical Physics Letters</i> , 1997, 271, 163-166.	2.6	14
256	Electric field gradient, generalized Sternheimer shieldings and electric field gradient polarizabilities by multiconfigurational SCF response. <i>Journal of Chemical Physics</i> , 1998, 109, 2264-2274.	3.0	14
257	Rotational g Tensors Calculated Using Hybrid Exchange-Correlation Functionals with the Optimized Effective Potential Approach. <i>Journal of Chemical Theory and Computation</i> , 2006, 2, 827-834.	5.3	14
258	Fermion N -representability for prescribed density and paramagnetic current density. <i>Physical Review A</i> , 2014, 89, .	2.5	14
259	Calculating excitation energies by extrapolation along adiabatic connections. <i>Physical Review A</i> , 2015, 91, .	2.5	14
260	Electron localisation function in current-density-functional theory. <i>Molecular Physics</i> , 2016, 114, 1415-1422.	1.7	14
261	Generalized Kohn-Sham iteration on Banach spaces. <i>Journal of Chemical Physics</i> , 2018, 149, 164103.	3.0	14
262	Kohn-Sham Theory with Paramagnetic Currents: Compatibility and Functional Differentiability. <i>Journal of Chemical Theory and Computation</i> , 2019, 15, 4003-4020.	5.3	14
263	Extensive relativistic calculations on the palladium hydride molecule. <i>Journal of Chemical Physics</i> , 1997, 107, 5496-5501.	3.0	13
264	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.	2.8	13
265	Molecular dynamics of linear molecules in strong magnetic fields. <i>Journal of Chemical Physics</i> , 2022, 157, .	3.0	13
266	Loss of H ₂ from CH ₃ NH ₃ ⁺ , CH ₃ OH ₂ ⁺ and CH ₃ FH ₂ ⁺ . Reaction mechanisms and dynamics from observation of metastable ion fragmentations and ab initio calculations. <i>European Journal of Mass Spectrometry</i> , 1995, 1, 121.	0.7	12
267	The calculation of molecular geometrical properties in the Hellmann-Feynman approximation. <i>Molecular Physics</i> , 1999, 96, 653-671.	1.7	12
268	Robust and Reliable Multilevel Minimization of the Kohn-Sham Energy. <i>Journal of Chemical Theory and Computation</i> , 2009, 5, 1027-1032.	5.3	12
269	Excited states from range-separated density-functional perturbation theory. <i>Molecular Physics</i> , 2015, 113, 1740-1749.	1.7	12
270	First-Principles Calculation of ¹ H NMR Chemical Shifts of Complex Metal Polyhydrides: The Essential Inclusion of Relativity and Dynamics. <i>Inorganic Chemistry</i> , 2020, 59, 17509-17518.	4.0	12

#	ARTICLE	IF	CITATIONS
271	Effect of the Crystalline Environment on Molecular Geometries – an ab initio Study of Cyanamide.. Acta Chemica Scandinavica, 1988, 42a, 269-272.	0.7	12
272	Ab Initio Studies of the [AX] ₂ Spin Systems of cis- and trans-N ₂ F ₂ . , 1996, 34, 646-649.		11
273	Electric and magnetic properties of the nitroethene molecule. Molecular Physics, 1997, 92, 89-96.	1.7	11
274	Calculation of electric dipole hypershieldings at the nuclei in the Hellmann–Feynman approximation. Journal of Chemical Physics, 2004, 120, 3142-3151.	3.0	11
275	Ground-state densities from the Rayleigh–Ritz variation principle and from density-functional theory. Journal of Chemical Physics, 2015, 143, 184106.	3.0	11
276	Lower Semicontinuity of the Universal Functional in Paramagnetic Current–Density Functional Theory. Journal of Physical Chemistry Letters, 2021, 12, 1421-1425.	4.6	11
277	Revealing the exotic structure of molecules in strong magnetic fields. Journal of Chemical Physics, 2022, 156, .	3.0	11
278	Spin-orbit and correlation effects in platinum hydride (PtH). International Journal of Quantum Chemistry, 1998, 68, 53-64.	2.0	10
279	Non-Born–Oppenheimer calculations of the HD molecule in a strong magnetic field. Chemical Physics Letters, 2015, 639, 295-299.	2.6	10
280	Full CI calculations of the magnetizability and rotational g factor of the hydrogen molecule. Computational and Theoretical Chemistry, 1996, 388, 231-235.	1.5	10
281	Simple derivation of the potential energy gradient for an arbitrary electronic wave function. International Journal of Quantum Chemistry, 1982, 21, 939-940.	2.0	9
282	Nuclear magnetic shielding tensor for the ethylenic carbon atom in tetrachlorocyclopropene. Chemical Physics Letters, 1993, 204, 608-610.	2.6	9
283	NMR properties of N ₃ ⁺ . A comparison of theory and experiment. Chemical Physics Letters, 1995, 243, 144-150.	2.6	9
284	Perspective on "Neue Berechnung der Energie des Heliums im Grundzustande, sowie des tiefsten Terms von Ortho-Helium". Theoretical Chemistry Accounts, 2000, 103, 180-181.	1.4	9
285	Basis-set completeness profiles in two dimensions. Journal of Computational Chemistry, 2002, 23, 420-425.	3.3	9
286	A computational study of some electric and magnetic properties of gaseous BF ₃ and BCl ₃ . Journal of Chemical Physics, 2005, 123, 114307.	3.0	9
287	Geometry of the magic number H ⁺ (H ₂ O) ₂₁ water cluster by proxy. Physical Chemistry Chemical Physics, 2015, 17, 5466-5473.	2.8	9
288	Use of Density Functional Theory Orbitals in the GVPT2 Variant of Second-Order Multistate Multireference Perturbation Theory. Journal of Physical Chemistry A, 2015, 119, 1548-1553.	2.5	9

#	ARTICLE	IF	CITATIONS
289	Molecular properties in the Tamm-Dancoff approximation: indirect nuclear spin-spin coupling constants. <i>Molecular Physics</i> , 2015, 113, 1937-1951.	1.7	9
290	Basis set considerations for the calculation of gradients in the lcao formalism. <i>Chemical Physics Letters</i> , 1981, 83, 125-128.	2.6	8
291	The Vegard-Kaplan band and the phosphorescent decay of N ₂ . <i>Chemical Physics Letters</i> , 1994, 231, 387-394.	2.6	8
292	Vibronic transitions from coupled-cluster response theory: Theory and application to HSiF and H ₂ O. <i>Journal of Chemical Physics</i> , 2002, 116, 8334.	3.0	8
293	A theoretical study on hydrogen transport mechanism in SrTiO ₃ perovskite. <i>International Journal of Quantum Chemistry</i> , 2012, 112, 201-207.	2.0	8
294	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
295	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.	2.5	8
296	An ab initio investigation of the potential energy function and rotation-vibration energies of H ₂ O-Na ⁺ . <i>Chemical Physics Letters</i> , 1991, 185, 265-269.	2.6	7
297	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. <i>Journal of Physical Chemistry A</i> , 2005, 109, 3652-3662.	2.5	7
298	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.	3.3	7
299	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.	3.0	7
300	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.	1.4	7
301	Explicitly-correlated non-born-oppenheimer calculations of the HD molecule in a strong magnetic field. <i>Chemical Physics Letters</i> , 2017, 682, 87-90.	2.6	7
302	MCSCF reaction-path energetics and thermal rate-constants for the reaction of 3NH with H ₂ . <i>Theoretica Chimica Acta</i> , 1994, 89, 157-168.	0.8	6
303	SCF calculations of the NMR shielding tensor for the ethylenic carbon atom in C ₃ Cl ₄ . <i>Molecular Physics</i> , 1995, 85, 671-673.	1.7	6
304	A second-quantization framework for the unified treatment of relativistic and nonrelativistic molecular perturbations by response theory. <i>Journal of Chemical Physics</i> , 2006, 125, 024102.	3.0	6
305	Internal-to-Cartesian back transformation of molecular geometry steps using high-order geometric derivatives. <i>Journal of Computational Chemistry</i> , 2013, 34, 1842-1849.	3.3	6
306	A computational quantum-mechanical model of a molecular magnetic trap. <i>Journal of Chemical Physics</i> , 2018, 149, 244112.	3.0	6

#	ARTICLE	IF	CITATIONS
307	MCSCF calculations of hypermagnetizabilities and nuclear shielding polarizabilities of CO and CH ₄ . <i>Molecular Physics</i> , 1996, 88, 931-948.	1.7	6
308	The second-order energy contribution from the spin-orbit interaction operator to the potential energy curve of Cr ₂ . <i>International Journal of Quantum Chemistry</i> , 1992, 41, 729-731.	2.0	5
309	The Rotational g Tensor as a Benchmark for Ab Initio Molecular Property Calculations. <i>Advances in Quantum Chemistry</i> , 2005, , 77-90.	0.8	5
310	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.	2.0	5
311	Excitation energies from GÃ¶rlingâ€™Levy perturbation theory along the range-separated adiabatic connection. <i>Molecular Physics</i> , 2018, 116, 1443-1451.	1.7	5
312	The hydrogen atom in crossed static electromagnetic and non-resonant laser fields. <i>Physica Scripta</i> , 1992, 46, 354-356.	2.5	4
313	Sternheimer shieldings and EFG polarizabilities: a density-functional theory study. <i>Chemical Physics Letters</i> , 2003, 372, 377-385.	2.6	4
314	The expansion of hydrogen states in Gaussian orbitals. <i>Theoretical Chemistry Accounts</i> , 2004, 112, 124.	1.4	4
315	The magnetizability, rotational g tensor and quadrupole moment of the boron trihalides. <i>Molecular Physics</i> , 2006, 104, 847-856.	1.7	4
316	Relativistic four-component calculations of Buckingham birefringence using London atomic orbitals. <i>Theoretical Chemistry Accounts</i> , 2011, 129, 685-699.	1.4	4
317	Multiconfigurational Self-Consistent Field Theory. , 2014, , 598-647.		4
318	Connections between variation principles at the interface of wave-function and density-functional theories. <i>Journal of Chemical Physics</i> , 2017, 147, 134107.	3.0	4
319	Highly Accurate Ab Initio Computation of Thermochemical Data. , 2001, , 1-30.		4
320	A quantum-mechanical non-Bornâ€™Oppenheimer model of a molecule in a strong magnetic field. <i>Chemical Physics Letters</i> , 2020, 761, 138041.	2.6	4
321	Translation and Rotational Symmetries of Molecular Geometrical Derivatives.. <i>Acta Chemica Scandinavica</i> , 1988, 42a, 515-518.	0.7	4
322	The Molecular Zeeman Effect of Norbornadiene, its g-Values, Magnetizability Anisotropics, and Molecular Electric Quadrupole Moment; A High-Resolution Microwave Fourier-Transform Study Combined with Quantum Chemical Calculations. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 1998, 53, 67-76.	1.5	3
323	Molecular polarizabilities and magnetizabilities. <i>Theoretical and Computational Chemistry</i> , 1999, , 147-188.	0.4	3
324	A comparison of polarization and bond functions for density functional calculations. <i>Molecular Physics</i> , 2004, 102, 2559-2562.	1.7	3

#	ARTICLE	IF	CITATIONS
325	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.	1.7	3
326	Calculation of the two-electron Darwin term using explicitly correlated wave functions. <i>Chemical Physics</i> , 2012, 401, 146-151.	1.9	3
327	FemEx – female excellence in theoretical and computational chemistry. <i>International Journal of Quantum Chemistry</i> , 2015, 115, 1195-1196.	2.0	3
328	Electric and magnetic properties of the nitroethene molecule. <i>Molecular Physics</i> , 1997, 92, 89-96.	1.7	3
329	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.	3.0	2
330	Challenges for large scale simulation: general discussion. <i>Faraday Discussions</i> , 2020, 224, 309-332.	3.2	2
331	Strong correlation in density functional theory: general discussion. <i>Faraday Discussions</i> , 2020, 224, 373-381.	3.2	2
332	New approaches to study excited states in density functional theory: general discussion. <i>Faraday Discussions</i> , 2020, 224, 483-508.	3.2	2
333	Optimization of Minima and Saddle Points. <i>Lecture Notes in Quantum Chemistry II</i> , 1992, , 295-324.	0.3	2
334	Walking on MCSCF Potential Energy Surfaces: Application to H ₂ O ₂ and NH ₃ . , 1986, , 229-241.		2
335	Second-Order Methods for the Optimization of Molecular Potential Energy Surfaces. , 1995, , 109-136.		2
336	Perspective on "Neue Berechnung der Energie des Heliums im Grundzustande, sowie des tiefsten Terms von Ortho-Helium", 2000, 103, 180.		2
337	Excitation energies from ensemble DFT. <i>AIP Conference Proceedings</i> , 2015, , .	0.4	2
338	New density-functional approximations and beyond: general discussion. <i>Faraday Discussions</i> , 2020, 224, 166-200.	3.2	1
339	Calculation of Dipole Moments, Polarizabilities and Their Geometrical Derivatives. , 1986, , 115-133.		1
340	Explicit Electron Correlation by a Combined Use of Gaussian-Type Orbitals and Gaussian-Type Geminals. <i>AIP Conference Proceedings</i> , 2007, , .	0.4	0
341	Range-dependent adiabatic connections. , 2012, , .		0
342	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

#	ARTICLE	IF	CITATIONS
343	A tribute to Jan Erik AlmlÃ¶f. <i>Molecular Physics</i> , 2017, 115, 2033-2042.	1.7	0
344	Foreword: Prof. Gauss Festschrift. <i>Molecular Physics</i> , 2020, 118, e1817247.	1.7	0
345	Wave Functionâ€‘Based Quantum Chemistry. , 2003, , .		0
346	Self-consistent field methods applied to large molecular systems. , 2006, , 1297-1297.		0
347	Towards black-box linear scaling optimization in Hartree-Fock and Kohn-Sham theories. , 2006, , 177-189.		0
348	LutosÅ‚aw Wolniewicz (1930â€‘2020). <i>Molecular Physics</i> , 0, , .	1.7	0
349	Spinâ€‘orbit and correlation effects in platinum hydride (PtH). <i>International Journal of Quantum Chemistry</i> , 1998, 68, 53-64.	2.0	0