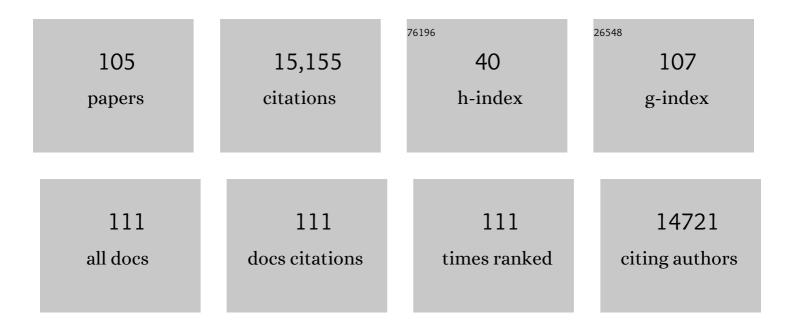
List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Molecule-surface interaction from van der Waals-corrected semilocal density functionals: The example of thiophene on transition-metal surfaces. Physical Review Materials, 2020, 4, .	0.9	13
2	Simple Modifications of the SCAN Meta-Generalized Gradient Approximation Functional. Journal of Chemical Theory and Computation, 2018, 14, 2469-2479.	2.3	26
3	Reference Determinant Dependence of the Random Phase Approximation in 3d Transition Metal Chemistry. Journal of Chemical Theory and Computation, 2017, 13, 100-109.	2.3	15
4	Construction of a Spin-Component Scaled Dual-Hybrid Random Phase Approximation. Journal of Chemical Theory and Computation, 2017, 13, 796-803.	2.3	25
5	Electron Density Errors and Density-Driven Exchange-Correlation Energy Errors in Approximate Density Functional Calculations. Journal of Chemical Theory and Computation, 2017, 13, 4753-4764.	2.3	48
6	Why Density Functionals Should Not Be Judged Primarily by Atomization Energies. Periodica Polytechnica: Chemical Engineering, 2016, 60, 2-7.	0.5	18
7	Application of a Dual-Hybrid Direct Random Phase Approximation to Water Clusters. Journal of Chemical Theory and Computation, 2016, 12, 4222-4232.	2.3	7
8	Features of the interactions between the methyl-CpG motif and the arginine residues on the surface of MBD proteins. Structural Chemistry, 2016, 27, 1317-1326.	1.0	5
9	Unified picture for the conformation and stabilization of the O-glycosidic linkage in glycopeptide model structures. Structural Chemistry, 2015, 26, 1367-1376.	1.0	5
10	Accurate Complete Basis Set Extrapolation of Direct Random Phase Correlation Energies. Journal of Chemical Theory and Computation, 2015, 11, 3961-3967.	2.3	9
11	Accurate Diels–Alder Reaction Energies from Efficient Density Functional Calculations. Journal of Chemical Theory and Computation, 2015, 11, 2879-2888.	2.3	19
12	Construction and Application of a New Dual-Hybrid Random Phase Approximation. Journal of Chemical Theory and Computation, 2015, 11, 4615-4626.	2.3	54
13	Accurate, Precise, and Efficient Theoretical Methods To Calculate Anionâ~ï€ Interaction Energies in Model Structures. Journal of Chemical Theory and Computation, 2015, 11, 360-371.	2.3	26
14	Density Functionals that Recognize Covalent, Metallic, and Weak Bonds. Physical Review Letters, 2013, 111, 106401.	2.9	168
15	Performance of meta-GGA Functionals on General Main Group Thermochemistry, Kinetics, and Noncovalent Interactions. Journal of Chemical Theory and Computation, 2013, 9, 355-363.	2.3	68
16	van der Waals interaction as a summable asymptotic series. Physical Review A, 2012, 86, .	1.0	15
17	Spherical-shell model for the van der Waals coefficients between fullerenes and/or nearly spherical nanoclusters. Journal of Physics Condensed Matter, 2012, 24, 424207.	0.7	12
18	Van der Waals Coefficients for Nanostructures: Fullerenes Defy Conventional Wisdom. Physical Review Letters, 2012, 109, 233203.	2.9	66

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19	A meta-GGA Made Free of the Order of Limits Anomaly. Journal of Chemical Theory and Computation, 2012, 8, 2078-2087.	2.3	49
20	Lattice constants from semilocal density functionals with zero-point phonon correction. Physical Review B, 2012, 85, .	1.1	63
21	Conformational analysis of cellobiose by electronic structure theories. Carbohydrate Research, 2012, 350, 68-76.	1.1	55
22	Self-consistent meta-generalized gradient approximation within the projector-augmented-wave method. Physical Review B, 2011, 84, .	1.1	180
23	Accurate Conformational Energy Differences of Carbohydrates: A Complete Basis Set Extrapolation. Journal of Chemical Theory and Computation, 2011, 7, 988-997.	2.3	26
24	Hydroxyl orientations in cellobiose and other polyhydroxyl compounds: modeling versus experiment. Cellulose, 2011, 18, 897-909.	2.4	18
25	A simple but fully nonlocal correction to the random phase approximation. Journal of Chemical Physics, 2011, 134, 114110.	1.2	33
26	Global Hybrid Functionals: A Look at the Engine under the Hood. Journal of Chemical Theory and Computation, 2010, 6, 3688-3703.	2.3	87
27	The RPA Atomization Energy Puzzle. Journal of Chemical Theory and Computation, 2010, 6, 127-134.	2.3	76
28	Comparison of different force fields for the study of disaccharides. Carbohydrate Research, 2009, 344, 2217-2228.	1.1	87
29	Evaluation of Density Functionals and Basis Sets for Carbohydrates. Journal of Chemical Theory and Computation, 2009, 5, 679-692.	2.3	183
30	Unified Inter- and Intramolecular Dispersion Correction Formula for Generalized Gradient Approximation Density Functional Theory. Journal of Chemical Theory and Computation, 2009, 5, 2950-2958.	2.3	76
31	Regularized Gradient Expansion for Atoms, Molecules, and Solids. Journal of Chemical Theory and Computation, 2009, 5, 763-769.	2.3	36
32	Some Fundamental Issues in Ground-State Density Functional Theory: A Guide for the Perplexed. Journal of Chemical Theory and Computation, 2009, 5, 902-908.	2.3	306
33	Workhorse Semilocal Density Functional for Condensed Matter Physics and Quantum Chemistry. Physical Review Letters, 2009, 103, 026403.	2.9	507
34	Assessing the performance of recent density functionals for bulk solids. Physical Review B, 2009, 79, .	1.1	740
35	Restoring the Density-Gradient Expansion for Exchange in Solids and Surfaces. Physical Review Letters, 2008, 100, 136406.	2.9	8,139
36	Perdew <i>etÂal.</i> Reply:. Physical Review Letters, 2008, 101, .	2.9	59

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37	Improved Description of Stereoelectronic Effects in Hydrocarbons Using Semilocal Density Functional Theory. Journal of Chemical Theory and Computation, 2008, 4, 888-891.	2.3	63
38	Simple charge-transfer model to explain the electrical response of hydrogen chains. Physical Review A, 2008, 78, .	1.0	20
39	Understanding and correcting the self-interaction error in the electrical response of hydrogen chains. Physical Review A, 2008, 77, .	1.0	52
40	Density functionals that are one- and two- are not always many-electron self-interaction-free, as shown for H2+, He2+, LiH+, and Ne2+. Journal of Chemical Physics, 2007, 126, 104102.	1.2	274
41	One-parameter optimization of a nonempirical meta-generalized-gradient-approximation for the exchange-correlation energy. Physical Review A, 2007, 76, .	1.0	37
42	Diminished gradient dependence of density functionals: Constraint satisfaction and self-interaction correction. Journal of Chemical Physics, 2007, 126, 244107.	1.2	26
43	Meta-generalized gradient approximation: non-empirical construction and performance of a density functional. Philosophical Magazine, 2007, 87, 1071-1084.	0.7	11
44	Exchange and correlation in open systems of fluctuating electron number. Physical Review A, 2007, 76,	1.0	140
45	Scaling down the Perdew-Zunger self-interaction correction in many-electron regions. Journal of Chemical Physics, 2006, 124, 094108.	1.2	122
46	Spurious fractional charge on dissociated atoms: Pervasive and resilient self-interaction error of common density functionals. Journal of Chemical Physics, 2006, 125, 194112.	1.2	383
47	Fluorinated cellobiose and maltose as stand-ins for energy surface calculations. Tetrahedron: Asymmetry, 2005, 16, 577-586.	1.8	21
48	Energies of organic molecules and atoms in density functional theory. International Journal of Quantum Chemistry, 2005, 101, 506-511.	1.0	64
49	Proper Gaussian Basis Sets for Density Functional Studies of Water Dimers and Trimers. Journal of Physical Chemistry B, 2005, 109, 21471-21475.	1.2	36
50	Estimation, Computation, and Experimental Correction of Molecular Zero-Point Vibrational Energies. Journal of Physical Chemistry A, 2005, 109, 6779-6789.	1.1	47
51	Binding Energy Curves from Nonempirical Density Functionals. I. Covalent Bonds in Closed-Shell and Radical Molecules. Journal of Physical Chemistry A, 2005, 109, 11006-11014.	1.1	57
52	Binding Energy Curves from Nonempirical Density Functionals II. van der Waals Bonds in Rare-Gas and Alkaline-Earth Diatomics. Journal of Physical Chemistry A, 2005, 109, 11015-11021.	1.1	82
53	Prescription for the design and selection of density functional approximations: More constraint satisfaction with fewer fits. Journal of Chemical Physics, 2005, 123, 062201.	1.2	769
54	Implicit Zero-Point Vibration Energy and Thermal Corrections in Rapid Estimation of Enthalpies of Formation from Hartreeâ^'Fock Total Energy and Partial Charges. Journal of Physical Chemistry A, 2003, 107, 736-744.	1.1	11

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55	Rapid Estimation of Enthalpies of Formation from Hartreeâ^'Fock Total Energy and Partial Charges for Compounds Containing Si, S, and Cl Atoms. Journal of Physical Chemistry A, 2003, 107, 8687-8695.	1.1	3
56	Rapid Estimation of Zero-Point Energies of Molecules Using Hartreeâ^'Fock Atomic Partial Charges. Journal of Physical Chemistry A, 2003, 107, 1833-1839.	1.1	14
57	Optimal Selection of Partial Charge Calculation Method for Rapid Estimation of Enthalpies of Formation from Hartreeâ^'Fock Total Energy. Journal of Physical Chemistry A, 2002, 106, 12139-12150.	1.1	13
58	Ab Initio Conformational Space Study of Model Compounds of O-Glycosides of Serine Diamide. Chemistry - A European Journal, 2002, 8, 4718-4733.	1.7	15
59	Proper basis set for quantum mechanical studies of potential energy surfaces of carbohydrates. Computational and Theoretical Chemistry, 2002, 584, 1-4.	1.5	99
60	Organizing atomic partial charges into a database. Computational and Theoretical Chemistry, 2002, 589-590, 1-5.	1.5	1
61	Reproducing Gaussian-3 Total Energy Using Fitted Atomic Correlation Parameters for the Rapid Estimation of Correlation Energy from Partial Charges Method and Hartreeâ^'Fock Results. Journal of Physical Chemistry A, 2001, 105, 1926-1933.	1.1	16
62	Accurate thermochemistry from corrected Hartree-Fock results: rapid estimation of nearly experimental quality total energy using the small 6-31G(d) basis set. Theoretical Chemistry Accounts, 2001, 106, 319-328.	0.5	19
63	The performance of the rapid estimation of basis set error and correlation energy from partial charges method on new molecules of the G3/99 test set. Theoretical Chemistry Accounts, 2001, 106, 404-411.	0.5	12
64	Fitting atomic correlation parameters for RECEP (rapid estimation of correlation energy from partial) Tj ETQqC Computational Chemistry, 2001, 22, 241-254.	0 0 rgBT /0 1.5	verlock 10 Tf 18
65	Prospects in computational molecular medicine: a millennial mega-project on peptide folding. Computational and Theoretical Chemistry, 2000, 500, 5-58.	1.5	29
66	Ab Initio Conformational Study of Two Lewis X Analogues. Journal of Physical Chemistry A, 2000, 104, 7113-7122.	1.1	10
67	Ab Initio Study of Lowest-Energy Conformers of Lewis X (Lex) Trisaccharide. Journal of Physical Chemistry A, 2000, 104, 3381-3390.	1.1	17
68	New development in RECEP (rapid estimation of correlation energy from partial charges) method. Chemical Physics Letters, 1999, 307, 469-478.	1.2	19
69	Comparison ofab initio and density functional methods for vibrational analysis of TeCl4. Journal of Computational Chemistry, 1998, 19, 308-318.	1.5	9
70	Inclusion of exact exchange for self-interaction corrected H 3 density functional potential energy surface. Theoretical Chemistry Accounts, 1998, 99, 158-165.	0.5	61
71	Theoretical Study of Alternative Ring Forms of α-l-Fucopyranose. Journal of Physical Chemistry A, 1998, 102, 1219-1229.	1.1	26
72	Relative Stability and Structure of Dihydro-1,2,4-triazines:  A Theoretical Study. Journal of Organic Chemistry, 1998, 63, 5824-5830.	1.7	10

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73	The conformational space of selected aldo-pyrano-hexoses. Computational and Theoretical Chemistry, 1997, 395-396, 29-40.	1.5	26
74	Peptide models XV. The effect of basis set size increase and electron correlation on selected minima of the ab initio 2D-Ramachandran map of For-Gly-NH2 and For-l-Ala-NH2. Computational and Theoretical Chemistry, 1997, 391, 15-26.	1.5	66
75	The origin of the problems with the PM3 core repulsion function. Computational and Theoretical Chemistry, 1997, 393, 31-38.	1.5	88
76	Monte Carlo simulation of amorphous systems with the fragment self-consistent field method. Computational and Theoretical Chemistry, 1997, 398-399, 129-133.	1.5	3
77	Flexible ab initio geometry of methylamine and its internal rotation. Journal of Molecular Structure, 1997, 410-411, 387-390.	1.8	1
78	Ab initio and density functional study of the conformational space of1C4 ?-L-fucose. Journal of Computational Chemistry, 1997, 18, 330-342.	1.5	38
79	Simple tests for density functional methods. Journal of Computational Chemistry, 1997, 18, 1534-1545.	1.5	25
80	Vibrational analysis of TeCl4. II. A Hartree-Fock, MP2, and density functional study. International Journal of Quantum Chemistry, 1997, 65, 817-826.	1.0	5
81	Prediction of geometrical parameters for silatranes: an ab initio molecular orbital and density functional theory study. Computational and Theoretical Chemistry, 1996, 362, 199-208.	1.5	26
82	Vibrational properties of C20 isomers, a semi-empirical study. Journal of Molecular Structure, 1996, 376, 513-523.	1.8	10
83	The structure of 1-chlorosilatrane: Anab initio molecular orbital and a density functional theory study. Journal of Computational Chemistry, 1996, 17, 767-780.	1.5	21
84	Theoretical study of intramolecular hydrogen bonding and molecular geometry of 2-trifluoromethylphenol. Journal of Computational Chemistry, 1996, 17, 1804-1819.	1.5	24
85	Relative stability of 1C4 and 4C1 chair forms of β-d-glucose: a density functional study. Chemical Physics Letters, 1996, 257, 49-60.	1.2	81
86	Density functional and post Hartree-Fock equilibrium geometries, potential energy surface and vibrational frequencies for methylamine. Chemical Physics Letters, 1995, 233, 611-618.	1.2	18
87	Density functional conformational analysis of 1,2-ethanediol. Chemical Physics Letters, 1995, 243, 419-428.	1.2	46
88	Ab initio and DFT investigations of intramolecular hydrogen bonding in 1,2-ethanediol. Chemical Physics Letters, 1995, 245, 129-135.	1.2	28
89	The photoelectron spectrum and conformation of phenylphosphine and phenylarsine. Structural Chemistry, 1995, 6, 1-7.	1.0	22
90	The failure of the MO-based theoretical explanations for bending of disiloxane. Computational and Theoretical Chemistry, 1995, 332, 187-188.	1.5	4

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91	Ab initio prediction of gas phase molecular structure of 1-chlorsilatrane. AIP Conference Proceedings, 1995, , .	0.3	0
92	Structure of disiloxane: Semiempirical and post-Hartree-Fock study. AIP Conference Proceedings, 1995, , .	0.3	0
93	Density functional study of the equilibrium geometry and Si-O-Si potential energy curve of disiloxane. Chemical Physics Letters, 1994, 229, 191-197.	1.2	32
94	Ab initio molecular orbital study of 1-fluorosilatrane. Journal of Computational Chemistry, 1994, 15, 385-394.	1.5	28
95	Structure of disiloxane: A semiempirical and Post-Hartree-Fock study. Journal of Computational Chemistry, 1994, 15, 925-936.	1.5	21
96	Analysis of the core-repulsion functions used in AM1 and PM3 semiempirical calculations: Conformational analysis of ring systems. Journal of Computational Chemistry, 1993, 14, 895-898.	1.5	52
97	Wavenumbers and intensities of the fundamental vibrational modes of HNSi and DNSi from quantum-chemical computations. Journal of Molecular Structure, 1993, 297, 243-253.	1.8	1
98	AM1 and PM3 semiempirical molecular orbital study of silatranes III. 1-Chlorosilatrane. Journal of Organometallic Chemistry, 1993, 454, 15-23.	0.8	20
99	MNDO, AM1 and PM3 semiempirical molecular orbital study of 1-fluorosilatrane. Journal of Organometallic Chemistry, 1993, 446, 99-106.	0.8	22
100	Investigation of heterocyclic compounds containing a Pî—»C or Asî—»C bond by ultraviolet photoelectron spectroscopy. Journal of Organometallic Chemistry, 1989, 373, 49-55.	0.8	52
101	Recent advances in fuzzy peak tracking in high-performance liquid chromatography. Journal of Chromatography A, 1989, 485, 557-567.	1.8	13
102	Investigation of 3-substituted benzazaphospholes and benzazarsoles by UV-photoelectron spectroscopy. Journal of Organometallic Chemistry, 1989, 373, 57-61.	0.8	23
103	The molecular structure of 1-phenylsilatranone. Journal of Organometallic Chemistry, 1987, 329, 305-311.	0.8	9
104	Theory of Correlation Tables. 1. Journal of Chemical Information and Computer Sciences, 1980, 20, 234-238.	2.8	1
105	Theory of Correlation Tables. 2. Journal of Chemical Information and Computer Sciences, 1980, 20, 239-241.	2.8	1