

# Double-hybrid density functionals with long-range dispersion accuracy and extended applicability

Physical Chemistry Chemical Physics

9, 3397

DOI: [10.1039/b704725h](https://doi.org/10.1039/b704725h)

Citation Report

#	ARTICLE	IF	CITATIONS
12	Double-hybrid density functional theory for excited electronic states of molecules. <i>Journal of Chemical Physics</i> , 2007, 127, 154116.	1.2	404
13	A unified density-functional treatment of dynamical, nondynamical, and dispersion correlations. <i>Journal of Chemical Physics</i> , 2007, 127, 124108.	1.2	193
14	Structure and binding energies of the porphine dimer. <i>Molecular Physics</i> , 2007, 105, 2793-2798.	0.8	31
15	A Theoretical Study on the Electronic Structure of Au <sup>X</sup> O(0,-1,+1) (X = C, N, and O) Complexes: Effect of an External Electric Field. <i>Journal of Physical Chemistry A</i> , 2007, 111, 13255-13263.	1.1	27
16	How strong is the bond between water and salt?. <i>Surface Science</i> , 2008, 602, L135-L138.	0.8	21
17	Metal induced molecular nano-extraction. <i>Theoretical Chemistry Accounts</i> , 2008, 121, 247-255.	0.5	1
18	Ab initio analysis of the Cope rearrangement of germacrane sesquiterpenoids. <i>Journal of Molecular Modeling</i> , 2008, 14, 335-342.	0.8	30
19	Latest developments and applications of double-hybrid density functionals. <i>Chemistry Central Journal</i> , 2008, 2, .	2.6	0
20	Natural orbital functional description of van der Waals interactions: A case study of the effect of the basis set for the helium dimer. <i>International Journal of Quantum Chemistry</i> , 2008, 108, 1660-1663.	1.0	14
21	Calculation of conformational energies and optical rotation of the most simple chiral alkane. <i>Chirality</i> , 2008, 20, 1009-1015.	1.3	33
22	Theoretical Description of Substituent Effects in Electrophilic Aromatic Substitution Reactions. <i>European Journal of Organic Chemistry</i> , 2008, 2008, 5928-5935.	1.2	10
23	Do Special Noncovalent $\pi$ - $\pi$ Stacking Interactions Really Exist?. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 3430-3434.	7.2	928
24	Chirality Recognition between Neutral Molecules in the Gas Phase. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 6970-6992.	7.2	221
27	Long-range corrected hybrid density functionals with damped atom-atom dispersion corrections. <i>Physical Chemistry Chemical Physics</i> , 2008, 10, 6615.	1.3	10,464
28	Performance of B3LYP Density Functional Methods for a Large Set of Organic Molecules. <i>Journal of Chemical Theory and Computation</i> , 2008, 4, 297-306.	2.3	931
29	Implementation and Performance of DFT-D with Respect to Basis Set and Functional for Study of Dispersion Interactions in Nanoscale Aromatic Hydrocarbons. <i>Journal of Chemical Theory and Computation</i> , 2008, 4, 2030-2048.	2.3	161
30	Highly Accurate First-Principles Benchmark Data Sets for the Parametrization and Validation of Density Functional and Other Approximate Methods. Derivation of a Robust, Generally Applicable, Double-Hybrid Functional for Thermochemistry and Thermochemical Kinetics. <i>Journal of Physical Chemistry A</i> , 2008, 112, 12868-12886.	1.1	680
31	Searching of potential energy curves for the benzene dimer using dispersion-corrected density functional theory. <i>Physical Chemistry Chemical Physics</i> , 2008, 10, 2715.	1.3	25

#	ARTICLE	IF	CITATIONS
32	Calculating stacking interactions in nucleic acid base-pair steps using spin-component scaling and local second order Møller-Plesset perturbation theory. <i>Physical Chemistry Chemical Physics</i> , 2008, 10, 2785.	1.3	45
33	B3LYP augmented with an empirical dispersion term (B3LYP-D*) as applied to molecular crystals. <i>CrystEngComm</i> , 2008, 10, 405-410.	1.3	775
34	Structures and interaction energies of stacked graphene nucleobase complexes. <i>Physical Chemistry Chemical Physics</i> , 2008, 10, 2722.	1.3	258
35	Assessment of Density Functionals for Intramolecular Dispersion-Rich Interactions. <i>Journal of Chemical Theory and Computation</i> , 2008, 4, 1610-1619.	2.3	65
36	Empirical Corrections to Density Functional Theory Highlight the Importance of Nonbonded Intramolecular Interactions in Alkanes. <i>Journal of Physical Chemistry A</i> , 2008, 112, 11495-11500.	1.1	48
37	Toward the Exact Solution of the Electronic Schrödinger Equation for Noncovalent Molecular Interactions: Worldwide Distributed Quantum Monte Carlo Calculations. <i>Journal of Physical Chemistry A</i> , 2008, 112, 2104-2109.	1.1	47
38	Analysis of non-covalent interactions in (bio)organic molecules using orbital-partitioned localized MP2. <i>Physical Chemistry Chemical Physics</i> , 2008, 10, 3327.	1.3	51
39	Interactions in Large, Polyaromatic Hydrocarbon Dimers: Application of Density Functional Theory with Dispersion Corrections. <i>Journal of Physical Chemistry A</i> , 2008, 112, 10968-10976.	1.1	136
40	Elementary Peptide Motifs in the Gas Phase: FTIR Aggregation Study of Formamide, Acetamide, N-Methylformamide, and N-Methylacetamide. <i>Journal of Physical Chemistry A</i> , 2008, 112, 7530-7542.	1.1	79
41	Exploring the Limit of Accuracy of the Global Hybrid Meta Density Functional for Main-Group Thermochemistry, Kinetics, and Noncovalent Interactions. <i>Journal of Chemical Theory and Computation</i> , 2008, 4, 1849-1868.	2.3	956
42	Intermolecular Potentials. <i>Science</i> , 2008, 321, 787-789.	6.0	119
43	Quantum chemical studies on hydrogen adsorption in carbon-based model systems: role of charged surface and the electronic induction effect. <i>Physical Chemistry Chemical Physics</i> , 2008, 10, 5832.	1.3	44
44	Dispersion energy from density-fitted density susceptibilities of singles and doubles coupled cluster theory. <i>Journal of Chemical Physics</i> , 2008, 128, 144107.	1.2	61
45	IR/UV spectra and quantum chemical calculations of Trp-Ser: Stacking interactions between backbone and indole side-chain. <i>Physical Chemistry Chemical Physics</i> , 2008, 10, 2844.	1.3	35
46	Influence of Sequential Guanidinium Methylation on the Energetics of the Guanidinium-Guanine Dimer and Guanidinium-Guanine-Cytosine Trimer: Implications for the Control of Protein-DNA Interactions by Arginine Methyltransferases. <i>Journal of Physical Chemistry B</i> , 2008, 112, 16995-17002.	1.2	3
47	Raman spectral evidence of methyl rotation in liquid toluene. <i>Physical Chemistry Chemical Physics</i> , 2008, 10, 1003-1008.	1.3	26
48	Tighter multipole-based integral estimates and parallel implementation of linear-scaling AO-MP2 theory. <i>Physical Chemistry Chemical Physics</i> , 2008, 10, 3335.	1.3	74
49	Stereochemical Nonrigidity of a Chiral Rhodium Boryl Hydride Complex: A $\sigma$ -Borane Complex as Transition State for Isomerization. <i>Journal of the American Chemical Society</i> , 2008, 130, 4375-4385.	6.6	20

#	ARTICLE	IF	CITATIONS
50	Physisorption and Chemisorption of Hydrocarbons in H-FAU Using QM-Pot(MP2//B3LYP) Calculations. <i>Journal of Physical Chemistry C</i> , 2008, 112, 11796-11812.	1.5	55
51	On the Importance of Electron Correlation Effects for the Intramolecular Stacking Geometry of a Bis-Thiophene Derivative. <i>Journal of Physical Chemistry A</i> , 2008, 112, 12469-12474.	1.1	23
52	Semiempirical Double-Hybrid Density Functional with Improved Description of Long-Range Correlation. <i>Journal of Physical Chemistry A</i> , 2008, 112, 2702-2712.	1.1	123
53	Theoretical Thermodynamics for Large Molecules: Walking the Thin Line between Accuracy and Computational Cost. <i>Accounts of Chemical Research</i> , 2008, 41, 569-579.	7.6	329
54	Bond Dissociation Enthalpies of Large Aromatic Carbon-Centered Radicals. <i>Journal of Physical Chemistry A</i> , 2008, 112, 13566-13573.	1.1	35
56	Van der Waals Interactions in DFT Made Easy by Wannier Functions. <i>Physical Review Letters</i> , 2008, 100, 053002.	2.9	189
57	Quantum Chemical Benchmark Energy and Geometry Database for Molecular Clusters and Complex Molecular Systems ( <a href="http://www.begdb.com">www.begdb.com</a> ): A Users Manual and Examples. <i>Collection of Czechoslovak Chemical Communications</i> , 2008, 73, 1261-1270.	1.0	144
59	Assessment of double-hybrid energy functionals for $\pi$ -conjugated systems. <i>Journal of Chemical Physics</i> , 2009, 131, 084108.	1.2	74
60	On the self-consistent implementation of general occupied-orbital dependent exchange-correlation functionals with application to the B05 functional. <i>Journal of Chemical Physics</i> , 2009, 131, 084103.	1.2	25
61	Long-range-corrected hybrid density functionals including random phase approximation correlation: Application to noncovalent interactions. <i>Journal of Chemical Physics</i> , 2009, 131, 034110.	1.2	82
62	Doubly hybrid density functional for accurate descriptions of nonbond interactions, thermochemistry, and thermochemical kinetics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 4963-4968.	3.3	332
63	The structure of phenol-Ar $\pi$ (n=1,2) clusters in their S and S1 states. <i>Journal of Chemical Physics</i> , 2009, 130, 224303.	1.2	38
64	Development and assessment of a short-range meta-GGA functional. <i>Journal of Chemical Physics</i> , 2009, 130, 234112.	1.2	48
65	Further analysis and comparative study of intermolecular interactions using dimers from the S22 database. <i>Journal of Chemical Physics</i> , 2009, 131, 065102.	1.2	82
66	Assignment of the absolute configuration of zwitterionic and neutral macropodumines by means of TDDFT CD calculations. <i>Chirality</i> , 2009, 21, 561-568.	1.3	20
67	On the Importance of Ribose Orientation in the Substrate Activation of the Coenzyme B <sub>12</sub> -Dependent Mutases. <i>Chemistry - A European Journal</i> , 2009, 15, 8578-8585.	1.7	23
68	Computational Investigation of Hydrogen Adsorption by Alkali-Metal-Doped Organic Molecules: Role of Aromaticity. <i>ChemPhysChem</i> , 2009, 10, 427-435.	1.0	38
69	A new hybrid DFT approach to electronic excitation and first hyperpolarizabilities of transition metal complexes. <i>Journal of Computational Chemistry</i> , 2009, 30, 2056-2063.	1.5	27

#	ARTICLE	IF	CITATIONS
70	Comparative analysis of the performance of commonly available density functionals in the determination of geometrical parameters for zinc complexes. <i>Journal of Computational Chemistry</i> , 2009, 30, 2752-2763.	1.5	51
71	A perspective on the link between the exchange(-correlation) hole and dispersion forces. <i>Journal of Mathematical Chemistry</i> , 2009, 46, 86-96.	0.7	20
72	Dispersion interactions in density functional theory. <i>Journal of Physical Organic Chemistry</i> , 2009, 22, 1127-1135.	0.9	322
73	Modeling of a Tröger's tweezer and its complexation properties. <i>Journal of Molecular Structure</i> , 2009, 934, 117-122.	1.8	16
74	Model study on sorption of polycyclic aromatic hydrocarbons to goethite. <i>Journal of Colloid and Interface Science</i> , 2009, 330, 244-249.	5.0	37
75	Hyrazine dimers: Competition between $\text{CH}^{\ddagger}$ and $\text{H}^{\ddagger}$ . <i>Journal of Physical Chemistry A</i> , 2009, 113, 11974-11983.	1.2	16
76	Toward spectroscopic studies of biologically relevant systems: Vibrational spectrum of adenine as a test case for performances of long-range/dispersion corrected density functionals. <i>Chemical Physics Letters</i> , 2009, 475, 105-110.	1.2	48
77	Mindless DFT Benchmarking. <i>Journal of Chemical Theory and Computation</i> , 2009, 5, 993-1003.	2.3	215
78	Conformational properties of six-membered heterocycles: accurate relative energy differences with DFT, the importance of dispersion interactions and silicon substitution effects. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 8689.	1.3	60
79	Conformational Isomerization of 5-Phenyl-1-pentene Probed by SEP-Population Transfer Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2009, 113, 126-134.	1.1	5
80	Atomic-Scale Modeling of the Interaction between Short Polypeptides and Carbon Surfaces. <i>Journal of Physical Chemistry B</i> , 2009, 113, 12105-12112.	1.2	34
81	Quantum Chemical Study of Trimolecular Reaction Mechanism between Nitric Oxide and Oxygen in the Gas Phase. <i>Journal of Physical Chemistry A</i> , 2009, 113, 9092-9101.	1.1	42
82	Ion-Pair Binding Energies of Ionic Liquids: Can DFT Compete with Ab Initio-Based Methods?. <i>Journal of Physical Chemistry A</i> , 2009, 113, 7064-7072.	1.1	163
83	The Remarkable Cis Effect in the Ene Reactions of Nitrosocarbonyl Intermediates. <i>Journal of Organic Chemistry</i> , 2009, 74, 2301-2310.	1.7	20
84	Performance of Ab Initio and Density Functional Methods for Conformational Equilibria of $\text{C}_n\text{H}_{2n+2}$ Alkane Isomers ( $n = 4\text{--}8$ ). <i>Journal of Physical Chemistry A</i> , 2009, 113, 11974-11983.	1.1	156
85	Local Hybrid Functionals with an Explicit Dependence on Spin Polarization. <i>Journal of Physical Chemistry A</i> , 2009, 113, 11898-11906.	1.1	43
86	Origin of the Argon Nanocoating Shift in the OH Stretching Fundamental of n-Propanol: A Combined Experimental and Quantum Chemical Study. <i>Journal of Physical Chemistry C</i> , 2009, 113, 10929-10938.	1.5	23
87	Accurate Calculations of Intermolecular Interaction Energies Using Explicitly Correlated Coupled Cluster Wave Functions and a Dispersion-Weighted MP2 Method. <i>Journal of Physical Chemistry A</i> , 2009, 113, 11580-11585.	1.1	150

#	ARTICLE	IF	CITATIONS
88	Understanding the Role of Intra- and Intermolecular Interactions in the Formation of Single- and Double-Helical Structures of Aromatic Oligoamides: A Computational Study. <i>Journal of Physical Chemistry A</i> , 2009, 113, 1335-1342.	1.1	24
89	Accurate Quantum Chemical Description of Non-Covalent Interactions in Hydrogen Filled Endohedral Fullerene Complexes. <i>Journal of Physical Chemistry C</i> , 2009, 113, 17006-17010.	1.5	63
90	H/Br Exchange in BBr <sub>3</sub> by HSiR <sub>3</sub> (R = H, CH <sub>3</sub> ), Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 667 Td (C<sub>s</sub> Barrier. <i>Journal of Physical Chemistry A</i> , 2009, 113, 12035-12043.	1.1	12
91	Unified Inter- and Intramolecular Dispersion Correction Formula for Generalized Gradient Approximation Density Functional Theory. <i>Journal of Chemical Theory and Computation</i> , 2009, 5, 2950-2958.	2.3	76
92	Benzenium <sup>+</sup> Ethene Complex: A Fundamental Problem for Standard Second-Order M <sup>o</sup> ller <sup>-</sup> Plesset Theory. <i>Journal of Physical Chemistry A</i> , 2009, 113, 3005-3008.	1.1	19
93	Coulomb-only second-order perturbation theory in long-range-corrected hybrid density functionals. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 9677.	1.3	29
94	Implementation and Optimization of DFT-D/COSab with Respect to Basis Set and Functional: Application to Polar Processes of Furfural Derivatives in Solution. <i>Journal of Chemical Theory and Computation</i> , 2009, 5, 2772-2786.	2.3	9
95	Long-range corrected double-hybrid density functionals. <i>Journal of Chemical Physics</i> , 2009, 131, 174105.	1.2	327
96	Metallo[endo]fullerene <sup>+</sup> Amino Acid Interactions. A Theoretical Study. <i>Journal of Physical Chemistry C</i> , 2009, 113, 504-511.	1.5	7
97	van der Waals Interactions in Density Functional Theory Using Wannier Functions. <i>Journal of Physical Chemistry A</i> , 2009, 113, 5224-5234.	1.1	80
98	Examination of DFT and TDDFT Methods II. <i>Journal of Physical Chemistry A</i> , 2009, 113, 10873-10879.	1.1	19
99	Optimization and Basis-Set Dependence of a Restricted-Open-Shell Form of B2-PLYP Double-Hybrid Density Functional Theory. <i>Journal of Physical Chemistry A</i> , 2009, 113, 9861-9873.	1.1	77
100	Autocatalytic degradation of white phosphorus with silylenes. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 5273.	1.3	25
101	Benchmark Thermochemistry of the C <sub>n</sub> H <sub>2n+2</sub> Alkane Isomers (C <sub>n</sub> H <sub>2n+2</sub> ) and Performance of DFT and Composite Ab Initio Methods for Dispersion-Driven Isomeric Equilibria. <i>Journal of Physical Chemistry A</i> , 2009, 113, 8434-8447.	1.1	128
102	Non covalent interactions in RNA and DNA base pairs: a quantum-mechanical study of the coupling between solvent and electronic density. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 11617.	1.3	27
103	Non-Covalent Interactions with Dual-Basis Methods: Pairings for Augmented Basis Sets. <i>Journal of Chemical Theory and Computation</i> , 2009, 5, 1560-1572.	2.3	39
104	The Structure of the Protonated Adenine Dimer by Infrared Multiple Photon Dissociation Spectroscopy and Electronic Structure Calculations. <i>Journal of Physical Chemistry A</i> , 2009, 113, 8099-8107.	1.1	34
105	A DFT study on the mechanism of a novel, regioselective, intramolecular N <sup>o</sup> rearrangement of cis and trans-1-N-Cp <sup>*</sup> Rh-hydroxytamoxifen complexes to their 1-6 derivatives; potential breast cancer pharmaceuticals, and fluorescent probes. <i>Dalton Transactions</i> , 2009, , 4334.	1.6	8

#	ARTICLE	IF	CITATIONS
106	Metal-ligand cooperation in the trans addition of dihydrogen to a pincer Ir(i) complex: a DFT study. Dalton Transactions, 2009, , 9433.	1.6	111
107	Charge-transport properties of prototype molecular materials for organic electronics based on graphene nanoribbons. Physical Chemistry Chemical Physics, 2009, 11, 2741.	1.3	47
108	Role of dispersive interactions in layered materials: a periodic B3LYP and B3LYP-D* study of Mg(OH) <sub>2</sub> , Ca(OH) <sub>2</sub> and kaolinite. Journal of Materials Chemistry, 2009, 19, 2564.	6.7	75
109	Hydrogen Bonding and $\pi$ -Stacking: How Reliable are Force Fields? A Critical Evaluation of Force Field Descriptions of Nonbonded Interactions. Journal of Chemical Information and Modeling, 2009, 49, 944-955.	2.5	161
110	Suitability of Double Hybrid Density Functionals and Their Dispersion-Corrected Counterparts in Producing the Potential Energy Curves for CO <sub>2</sub> -Rg (Rg: He, Ne, Ar and Kr) Systems. Journal of Physical Chemistry A, 2009, 113, 1377-1383.	1.1	14
111	Thiourea and isothiocyanate – two useful chromophores for stereochemical studies. A comparison of experiment and computation. Organic and Biomolecular Chemistry, 2009, 7, 1562.	1.5	15
112	Recent developments of the quantum chemical cluster approach for modeling enzyme reactions. Journal of Biological Inorganic Chemistry, 2009, 14, 643-651.	1.1	257
113	Reaction Enthalpies Using the Neural-Network-Based X1 Approach: The Important Choice of Input Descriptors. Journal of Physical Chemistry A, 2009, 113, 3285-3290.	1.1	19
114	Good vibrations: probing biomolecular structure and interactions through spectroscopy in the gas phase. Molecular Physics, 2009, 107, 2435-2458.	0.8	84
115	Enantioselective HF Loss Promoted by Resonant Two-Photon Ionization of Supersonically Expanded (R)-1-Phenyl-2,2,2-trifluoroethanol Clusters. Journal of Physical Chemistry A, 2009, 113, 15127-15135.	1.1	4
116	TAMkin: A Versatile Package for Vibrational Analysis and Chemical Kinetics. Journal of Chemical Information and Modeling, 2010, 50, 1736-1750.	2.5	155
117	Palladium-Catalyzed C-H Activation/C-N Bond Formation Reactions: DFT Study of Reaction Mechanisms and Reactive Intermediates. Organometallics, 2010, 29, 821-834.	1.1	67
118	A Transferable H-Bonding Correction for Semiempirical Quantum-Chemical Methods. Journal of Chemical Theory and Computation, 2010, 6, 344-352.	2.3	249
119	A consistent and accurate <i>ab initio</i> parametrization of density functional dispersion correction (DFT-D) for the 94 elements H-Pu. Journal of Chemical Physics, 2010, 132, 154104.	1.2	35,972
120	Conformational Properties of 1-Silyl-1-Silacyclohexane, C <sub>5</sub> H <sub>10</sub> SiH <sub>3</sub> : Gas Electron Diffraction, Low-Temperature NMR, Temperature-Dependent Raman Spectroscopy, and Quantum Chemical Calculations. Journal of Physical Chemistry A, 2010, 114, 2127-2135.	1.1	39
121	Theoretical study of challenging properties of intramolecularly $\pi$ -stacked oligo(dibenzofulvene) organic molecular semiconductors. Theoretical Chemistry Accounts, 2010, 127, 605-612.	0.5	7
122	Overcoming systematic DFT errors for hydrocarbon reaction energies. Theoretical Chemistry Accounts, 2010, 127, 429-442.	0.5	51
123	Comparative semiempirical, <i>ab initio</i> , and density functional theory study on the thermodynamic properties of linear and branched perfluoroalkyl sulfonic acids/sulfonyl fluorides, perfluoroalkyl carboxylic acid/acyl fluorides, and perhydroalkyl sulfonic acids, alkanes, and alcohols. Computational and Theoretical Chemistry, 2010, 941, 107-118.	1.5	22



#	ARTICLE	IF	CITATIONS
124	Experimental and Theoretical Conformational Analysis of 5- <i>β</i> -Benzylimidazolidinone Derivatives as a Playground™ for Studying Dispersion Interactions and a Windshield Wiper™ Effect in Organocatalysis. <i>Helvetica Chimica Acta</i> , 2010, 93, 1-16.	1.0	59
125	Assessment of density functionals with long-range and/or empirical dispersion corrections for conformational energy calculations of peptides. <i>Journal of Computational Chemistry</i> , 2010, 31, 2915-2923.	1.5	46
126	Anionic d <sup>8</sup> Alkyl Hydrides Selective Formation and Reactivity of Anionic <i>cis</i> -Pt <sup>II</sup> Methyl Hydride. <i>European Journal of Inorganic Chemistry</i> , 2010, 2010, 1991-1999.	1.0	7
127	Copper-Catalyzed Enantioselective [2+2] Cycloadditions of 2-Nitrosopyridine with Ketenes. <i>Advanced Synthesis and Catalysis</i> , 2010, 352, 945-948.	2.1	43
128	Effect of CO on the Oxidative Addition of Arene C-H Bonds by Cationic Rhodium Complexes. <i>Chemistry - A European Journal</i> , 2010, 16, 328-353.	1.7	49
129	Labdane diterpenoids and highly methoxylated bibenzyls from the liverwort <i>Frullania inouei</i> . <i>Phytochemistry</i> , 2010, 71, 1573-1578.	1.4	23
130	Assessment of density functionals for predicting the infrared spectrum of sodiated octa-glycine. <i>International Journal of Mass Spectrometry</i> , 2010, 297, 152-161.	0.7	21
131	A performance study of density functional theory with empirical dispersion corrections and spin-component scaled second-order Møller-Plesset perturbation theory on adsorbate-zeolite interactions. <i>Computational and Theoretical Chemistry</i> , 2010, 945, 85-88.	1.5	13
132	Gas phase isomerization enthalpies of organic compounds: A semiempirical, density functional theory, and ab initio post-Hartree-Fock theoretical study. <i>Computational and Theoretical Chemistry</i> , 2010, 948, 102-107.	1.5	50
133	Hydrogen bonding interactions in cysteine-urea complexes: Theoretical studies of structures, properties and topologies. <i>Computational and Theoretical Chemistry</i> , 2010, 960, 98-105.	1.5	10
134	Metal induced amino acid adsorption on nanotubes. <i>Thin Solid Films</i> , 2010, 518, 2070-2076.	0.8	16
135	On the geometrical structure and spectral properties of pyrene monomer and sterically constrained intramolecular pyrene dimers. <i>Chemical Physics</i> , 2010, 377, 123-131.	0.9	9
136	Comparative theoretical investigation on the isomerization energies of long-chain perfluoroalkanes: A case study with perfluorooctane sulfonic acid congeners. <i>Nature Precedings</i> , 2010, , .	0.1	0
137	The Aromatic Amino Acid Hydroxylase Mechanism: A Perspective From Computational Chemistry. <i>Advances in Inorganic Chemistry</i> , 2010, , 437-500.	0.4	11
138	XYG3s: Speedup of the XYG3 fifth-rung density functional with scaling-all-correlation method. <i>Journal of Chemical Physics</i> , 2010, 132, 194105.	1.2	40
139	Basis set consistent revision of the S22 test set of noncovalent interaction energies. <i>Journal of Chemical Physics</i> , 2010, 132, 144104.	1.2	309
140	The assessment of density functionals for DNA-protein stacked and T-shaped complexes. <i>Canadian Journal of Chemistry</i> , 2010, 88, 815-830.	0.6	36
141	Basis set dependence of the doubly hybrid XYG3 functional. <i>Journal of Chemical Physics</i> , 2010, 133, 104105.	1.2	41



#	ARTICLE	IF	CITATIONS
142	Intriguing $\pi$ - $\pi$ Interaction in Crystal Packing. <i>Journal of Physical Chemistry B</i> , 2010, 114, 4166-4170.	1.2	55
143	Probing Substituent Effects in Aryl-Aryl Interactions Using Stereoselective Diels-Alder Cycloadditions. <i>Journal of the American Chemical Society</i> , 2010, 132, 3304-3311.	6.6	176
144	Significant van der Waals Effects in Transition Metal Complexes. <i>Journal of Chemical Theory and Computation</i> , 2010, 6, 2040-2044.	2.3	185
145	Extending the reliability and applicability of B3LYP. <i>Chemical Communications</i> , 2010, 46, 3057.	2.2	196
146	Using Nonempirical Semilocal Density Functionals and Empirical Dispersion Corrections to Model Dative Bonding in Substituted Boranes. <i>Journal of Chemical Theory and Computation</i> , 2010, 6, 1825-1833.	2.3	22
147	Formation and structure of the potassium complex of valinomycin in solution studied by Raman optical activity spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 11021.	1.3	57
148	A General Database for Main Group Thermochemistry, Kinetics, and Noncovalent Interactions: Assessment of Common and Reparameterized (meta-GGA) Density Functionals. <i>Journal of Chemical Theory and Computation</i> , 2010, 6, 107-126.	2.3	389
149	Using Density Functional Theory Methods for Modeling Induction and Dispersion Interactions in Ligand-Protein Complexes. <i>Annual Reports in Computational Chemistry</i> , 2010, 6, 96-112.	0.9	6
150	van der Waals Interactions in Density-Functional Theory: Intermolecular Complexes. <i>Journal of Chemical Theory and Computation</i> , 2010, 6, 1081-1088.	2.3	155
151	Branched Alkanes Have Contrasting Stabilities. <i>Organic Letters</i> , 2010, 12, 3070-3073.	2.4	34
152	Synthesis and Structure of <i>m</i> -Terphenyl Thio-, Seleno-, and Telluroethers. <i>Journal of Organic Chemistry</i> , 2010, 75, 8363-8371.	1.7	17
153	A New Empirical Correction to the AM1 Method for Macromolecular Complexes. <i>Journal of Chemical Theory and Computation</i> , 2010, 6, 2153-2166.	2.3	23
154	Effects of London dispersion on the isomerization reactions of large organic molecules: a density functional benchmark study. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 6940.	1.3	123
155	Accurately Characterizing the $\pi$ - $\pi$ Interaction Energies of Indole-Benzene Complexes. <i>Journal of Physical Chemistry A</i> , 2010, 114, 3576-3582.	1.1	63
156	$\pi$ Interactions Studied with Electronic Structure Methods: The Ethyne Methyl Isocyanide Complex and Thioanisole. <i>Journal of Chemical Theory and Computation</i> , 2010, 6, 2687-2700.	2.3	7
157	Synthesis and Reactivity of an Iridium(I) Acetylonyl PNP Complex. Experimental and Computational Study of Metal-Ligand Cooperation in $\text{C-H}$ and $\text{C-H}$ Bond Activation via Reversible Ligand Dearomatization. <i>Organometallics</i> , 2010, 29, 3817-3827.	1.1	97
158	Conformational Preferences of X-Pro Sequences: Ala-Pro and Aib-Pro Motifs. <i>Journal of Physical Chemistry B</i> , 2010, 114, 14077-14086.	1.2	10
159	Intramolecular Proton Transfer in Calixphyrin Derivatives. <i>Journal of Physical Chemistry A</i> , 2010, 114, 3649-3654.	1.1	6

#	ARTICLE	IF	CITATIONS
160	Intramolecular $\pi$ - $\pi$ Stacking Interactions in 2-Substituted N,N-Dibenzylaziridinium Ions and Their Regioselectivity in Nucleophilic Ring-Opening Reactions. <i>Journal of Organic Chemistry</i> , 2010, 75, 885-896.	1.7	66
161	A Theoretical Study of Brominated Porphycenes: Electronic Spectra and Intersystem Spin-Orbit Coupling. <i>Journal of Chemical Theory and Computation</i> , 2010, 6, 3176-3189.	2.3	21
162	Effect of Charge Distribution on RDX Adsorption in IRMOF-10. <i>Langmuir</i> , 2010, 26, 5942-5950.	1.6	27
163	On the Free Radical Scavenging Capability of Carboxylated Single-Walled Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2010, 114, 6363-6370.	1.5	32
164	An Assessment of Density Functional Methods for Potential Energy Curves of Nonbonded Interactions: The XYG3 and B97-D Approximations. <i>Journal of Chemical Theory and Computation</i> , 2010, 6, 727-734.	2.3	91
165	A System-Dependent Density-Based Dispersion Correction. <i>Journal of Chemical Theory and Computation</i> , 2010, 6, 1990-2001.	2.3	133
166	Trends in R-X Bond Dissociation Energies (R = Me, Et, i-Pr, t-Bu, X = H, Me, Cl, OH). <i>Journal of Chemical Theory and Computation</i> , 2010, 6, 1462-1469.	2.3	39
167	Stabilization and Structure Calculations for Noncovalent Interactions in Extended Molecular Systems Based on Wave Function and Density Functional Theories. <i>Chemical Reviews</i> , 2010, 110, 5023-5063.	23.0	697
168	Thermochemical benchmarking of hydrocarbon bond separation reaction energies: Jacob's ladder is not reversed!. <i>Molecular Physics</i> , 2010, 108, 2655-2666.	0.8	53
169	DSD-BLYP: A General Purpose Double Hybrid Density Functional Including Spin Component Scaling and Dispersion Correction. <i>Journal of Physical Chemistry C</i> , 2010, 114, 20801-20808.	1.5	329
170	Theoretical Investigation of the Rubicordifolin Cascade. <i>Organic Letters</i> , 2010, 12, 5162-5165.	2.4	20
171	Empirically corrected DFT and semi-empirical methods for non-bonding interactions. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 307-322.	1.3	77
172	Frontiers in electronic structure theory. <i>Journal of Chemical Physics</i> , 2010, 132, 110902.	1.2	147
173	Van der Waals Interaction between Two Crossed Carbon Nanotubes. <i>ACS Nano</i> , 2010, 4, 5937-5945.	7.3	98
174	The [13]Annulene Cation Is a Stable Möbius Annulene Cation. <i>Organic Letters</i> , 2010, 12, 1708-1711.	2.4	24
175	Harmonic and Anharmonic Vibrational Frequency Calculations with the Double-Hybrid B2PLYP Method: Analytic Second Derivatives and Benchmark Studies. <i>Journal of Chemical Theory and Computation</i> , 2010, 6, 2115-2125.	2.3	274
176	Modeling the noble metal/TiO <sub>2</sub> (110) interface with hybrid DFT functionals: A periodic electrostatic embedded cluster model study. <i>Journal of Chemical Physics</i> , 2010, 133, 164703.	1.2	59
177	Theoretical Study of the Hydrolysis of Pentameric Aluminum Complexes. <i>Journal of Chemical Theory and Computation</i> , 2010, 6, 993-1007.	2.3	18

#	ARTICLE	IF	CITATIONS
178	Structure of the gas-phase glycine tripeptide. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 3463.	1.3	22
179	DFT Study of the Structure and Reactivity of the Terminal Pt(IV)-Oxo Complex Bearing No Electron-Withdrawing Ligands. <i>Journal of the American Chemical Society</i> , 2010, 132, 14886-14900.	6.6	49
180	Doubly hybrid density functional for accurate description of thermochemistry, thermochemical kinetics and nonbonded interactions. <i>International Reviews in Physical Chemistry</i> , 2011, 30, 115-160.	0.9	116
181	Thermal C-H Bond Activation of Benzene, Toluene, and Methane with Cationic [M(X)(bipy)] <sup>+</sup> (M = Ni, Pd). <i>J. Phys. Chem. B</i> , 2011, 115, 10113-10121.	1.1	46
182	Ring-opening radical clock reactions: many density functionals have difficulty keeping time. <i>Organic and Biomolecular Chemistry</i> , 2011, 9, 3158.	1.5	5
183	Vibrations of a chelated proton in a protonated tertiary diamine. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 20380.	1.3	15
184	Theoretical investigation of the complexation of crown ethers and crown ethers of fulleropyrrolidine with (CH <sub>3</sub> ) <sub>x</sub> NH <sup>+</sup> 4 <sup>x</sup> , x = 0-4. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 954-965.	1.3	10
185	Bonding Nature and Vibrational Signatures of Oxirane:(Water) <sub>n</sub> . Assessment of the Performance of the Dispersion-Corrected DFT Methods Compared to the ab initio Results and Fourier Transform Infrared Experimental Data. <i>Journal of Physical Chemistry A</i> , 2011, 115, 6688-6701.	1.1	12
186	Energy and Lifetime of Temporary Anion States of Uracil by Stabilization Method. <i>Journal of Physical Chemistry A</i> , 2011, 115, 10113-10121.	1.1	23
187	Direct Infrared Absorption Spectroscopy of Benzene Dimer. <i>Journal of Physical Chemistry A</i> , 2011, 115, 11263-11268.	1.1	36
188	Ab Initio Modeling of Donor-Acceptor Interactions and Charge-Transfer Excitations in Molecular Complexes: The Case of Terthiophene-Tetracyanoquinodimethane. <i>Journal of Chemical Theory and Computation</i> , 2011, 7, 2068-2077.	2.3	46
189	Solvation Effects on Electronic Transitions: Exploring the Performance of Advanced Solvent Potentials in Polarizable Embedding Calculations. <i>Journal of Chemical Theory and Computation</i> , 2011, 7, 2209-2217.	2.3	75
190	Density Functional Study of the Stable Oxidation States and the Binding of Oxygen in MO <sub>4</sub> Clusters of the 3d Elements. <i>Journal of Physical Chemistry A</i> , 2011, 115, 10665-10678.	1.1	21
191	Cyclization Reactions of 3,4-Diazaheptatrienyl Metal Compounds. Pyridines from an Anionic Analogue of the Fischer Indole Synthesis: Experiment and Theory. <i>Journal of Organic Chemistry</i> , 2011, 76, 4591-4599.	1.7	18
192	Protonation of Phosphovanadomolybdates H <sub>3</sub> PV <sub>x</sub> Mo <sub>12</sub> O <sub>40</sub> : Computational Insight Into Reactivity. <i>Journal of Physical Chemistry A</i> , 2011, 115, 4811-4826.	1.1	40
193	Assessment of Dispersion Corrected Atom Centered Pseudopotentials: Application to Energetic Molecular Crystals. <i>Journal of Physical Chemistry B</i> , 2011, 115, 803-810.	1.2	32
194	Dimer Radical Cations of Indole and Indole-3-carbinol: Localized and Delocalized Radical Cations of Diindolylmethane. <i>Journal of Physical Chemistry A</i> , 2011, 115, 7700-7708.	1.1	8
195	Theoretical Studies on Thermochemistry for Conversion of 5-Chloromethylfurfural into Valuable Chemicals. <i>Journal of Physical Chemistry A</i> , 2011, 115, 13628-13641.	1.1	25

#	ARTICLE	IF	CITATIONS
196	Explicitly Correlated Coupled Cluster Calculations for the Benzenium Ion (C <sub>6</sub> H <sub>7</sub> <sup>+</sup> ) and Its Complexes with Ne and Ar. <i>Journal of Physical Chemistry A</i> , 2011, 115, 13664-13672.	1.1	12
197	Cation <sup>+</sup> Cation $\leftrightarrow$ Attraction <sup>-</sup> When London Dispersion Attraction Wins over Coulomb Repulsion. <i>Inorganic Chemistry</i> , 2011, 50, 2619-2628.	1.9	127
198	Transition States and Energetics of Nucleophilic Additions of Thiols to Substituted $\hat{1},\hat{2}$ -Unsaturated Ketones: Substituent Effects Involve Enone Stabilization, Product Branching, and Solvation. <i>Journal of Organic Chemistry</i> , 2011, 76, 5074-5081.	1.7	84
199	Differences in structure, energy, and spectrum between neutral, protonated, and deprotonated phenol dimers: comparison of various density functionals with ab initio theory. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 991-1001.	1.3	39
200	Theoretical Study on the Mechanism of the Oxygen Activation Process in Cysteine Dioxygenase Enzymes. <i>Journal of the American Chemical Society</i> , 2011, 133, 3869-3882.	6.6	197
201	Molecular Simulation of the Pressure-Induced Crystallographic Phase Transition of <i>p</i> -Terphenyl. <i>Journal of Physical Chemistry B</i> , 2011, 115, 407-413.	1.2	12
202	Understanding the HIV-1 Protease Reactivity with DFT: What Do We Gain from Recent Functionals?. <i>Journal of Physical Chemistry B</i> , 2011, 115, 8545-8558.	1.2	27
203	Theoretical Investigation on Triplet Excitation Energy Transfer in Fluorene Dimer. <i>Chinese Journal of Chemical Physics</i> , 2011, 24, 538-546.	0.6	6
204	Double-hybrid density-functional theory made rigorous. <i>Journal of Chemical Physics</i> , 2011, 134, 064113.	1.2	165
205	Halogen Bond Involving Hypervalent Halogen: CSD Search and Theoretical Study. <i>Journal of Physical Chemistry A</i> , 2011, 115, 9294-9299.	1.1	55
206	Parameterization of a B3LYP Specific Correction for Noncovalent Interactions and Basis Set Superposition Error on a Gigantic Data Set of CCSD(T) Quality Noncovalent Interaction Energies. <i>Journal of Chemical Theory and Computation</i> , 2011, 7, 658-668.	2.3	73
207	A Parameter-Free Density Functional That Works for Noncovalent Interactions. <i>Journal of Physical Chemistry Letters</i> , 2011, 2, 983-989.	2.1	134
209	Accurate Conformational Energy Differences of Carbohydrates: A Complete Basis Set Extrapolation. <i>Journal of Chemical Theory and Computation</i> , 2011, 7, 988-997.	2.3	26
210	Conformational Analysis of a Nitroxide Side Chain in an $\hat{1},\hat{2}$ -Helix with Density Functional Theory. <i>Journal of Physical Chemistry B</i> , 2011, 115, 397-405.	1.2	36
211	Quantum Mechanical Modeling of Catalytic Processes. <i>Annual Review of Chemical and Biomolecular Engineering</i> , 2011, 2, 453-477.	3.3	68
212	Photoinduced Singlet Charge Transfer in a Ruthenium(II) Perylene-3,4:9,10-bis(dicarboximide) Complex. <i>Journal of Physical Chemistry B</i> , 2011, 115, 7533-7540.	1.2	36
213	Accurate Interaction Energies for Problematic Dispersion-Bound Complexes: Homogeneous Dimers of NCCN, P <sub>2</sub> , and PCCP. <i>Journal of Chemical Theory and Computation</i> , 2011, 7, 2842-2851.	2.3	46
214	Hybrid Quantum and Classical Simulations of the Dihydrofolate Reductase Catalyzed Hydride Transfer Reaction on an Accurate Semi-Empirical Potential Energy Surface. <i>Journal of Chemical Theory and Computation</i> , 2011, 7, 3420-3437.	2.3	45

#	ARTICLE	IF	CITATIONS
215	Geometry of (E)-benzaldehyde phenylhydrazone in ethanol. Computational and Theoretical Chemistry, 2011, 976, 197-200.	1.1	0
216	Singlet-triplet ( $S_0 \rightarrow T_1$ ) excitation energies of the $[4\text{Å}-n]$ rectangular graphene nanoribbon series ( $n=2-6$ ): A comparative theoretical study. Computational and Theoretical Chemistry, 2011, 977, 163-167.	1.1	13
217	First-principles investigation on the structural stability of methane and ethane clathrate hydrates. Computational and Theoretical Chemistry, 2011, 977, 209-212.	1.1	14
218	A comparison between artificial and natural water oxidation. Dalton Transactions, 2011, 40, 11296.	1.6	34
219	Efficient and Accurate Double-Hybrid-Meta-GGA Density Functionals Evaluation with the Extended GMTKN30 Database for General Main Group Thermochemistry, Kinetics, and Noncovalent Interactions. Journal of Chemical Theory and Computation, 2011, 7, 291-309.	2.3	1,035
220	Theoretical investigation on quinoline-based platinum (II) complexes as efficient singlet oxygen photosensitizers in photodynamic therapy. Journal of Organometallic Chemistry, 2011, 696, 3322-3327.	0.8	34
221	How reliable are DFT transition structures? Comparison of GGA, hybrid-meta-GGA and meta-GGA functionals. Organic and Biomolecular Chemistry, 2011, 9, 689-700.	1.5	212
222	Comprehensive Benchmarking of a Density-Dependent Dispersion Correction. Journal of Chemical Theory and Computation, 2011, 7, 3567-3577.	2.3	400
223	Semiempirical, Hartree-Fock, density functional, and second order Moller-Plesset perturbation theory methods do not accurately predict ionization energies and electron affinities of short- through long-chain [n]acenes. Nature Precedings, 2011, , .	0.1	1
224	Gas phase enthalpies of formation, isomerization, and disproportionation of mono- through tetra-substituted tetrahydrones: A G4MP2/G4 theoretical study. Nature Precedings, 2011, , .	0.1	0
225	An introduction to quantum chemical methods applied to drug design. Frontiers in Bioscience - Elite, 2011, E3, 1061-1078.	0.9	0
226	Seeking for parameter-free double-hybrid functionals: The PBE0-DH model. Journal of Chemical Physics, 2011, 135, 024106.	1.2	226
227	A thorough benchmark of density functional methods for general main group thermochemistry, kinetics, and noncovalent interactions. Physical Chemistry Chemical Physics, 2011, 13, 6670.	1.3	1,627
228	Confinement Effect on <i>p</i> -Nitroaniline Electronic Spectrum and Electric Properties. Journal of Physical Chemistry A, 2011, 115, 5210-5220.	1.1	18
229	Density-functional approaches to noncovalent interactions: A comparison of dispersion corrections (DFT-D), exchange-hole dipole moment (XDM) theory, and specialized functionals. Journal of Chemical Physics, 2011, 134, 084107.	1.2	607
230	Radical Transfer Hydroamination of Olefins with <i>N</i> -Aminated Dihydropyridines. Chemistry - an Asian Journal, 2011, 6, 1197-1209.	1.7	52
231	Calculations of ionization energies and electron affinities for atoms and molecules: A comparative study with different methods. Frontiers of Chemistry in China: Selected Publications From Chinese Universities, 2011, 6, 269-279.	0.4	22
232	Quantum Mechanical Investigations of Organocatalysis: Mechanisms, Reactivities, and Selectivities. Chemical Reviews, 2011, 111, 5042-5137.	23.0	489

#	ARTICLE	IF	CITATIONS
233	Noncovalent interactions in biochemistry. Wiley Interdisciplinary Reviews: Computational Molecular Science, 2011, 1, 3-17.	6.2	222
234	Density Functional Calculations. , 2011, , 445-519.		3
235	Carbocations. Wiley Interdisciplinary Reviews: Computational Molecular Science, 2011, 1, 487-508.	6.2	43
236	The quantum chemical cluster approach for modeling enzyme reactions. Wiley Interdisciplinary Reviews: Computational Molecular Science, 2011, 1, 323-336.	6.2	232
237	Density functional theory with London dispersion corrections. Wiley Interdisciplinary Reviews: Computational Molecular Science, 2011, 1, 211-228.	6.2	2,030
238	Hydrogen bonding interactions between N,N-dimethylformamide and cysteine: DFT studies of structures, properties, and topologies. Structural Chemistry, 2011, 22, 57-65.	1.0	22
239	Hydrogen bonding interactions in noradrenaline-DMSO complexes: DFT and QTAIM studies of structure, properties and topology. Journal of Molecular Modeling, 2011, 17, 2609-2621.	0.8	25
240	Microsolvation of aminoethanol: a study using DFT combined with QTAIM. Journal of Molecular Modeling, 2011, 17, 2781-2796.	0.8	14
241	Bonding in cationic MOH n + (M <sup>n+</sup> = Al <sup>3+</sup> , Hf <sup>4+</sup> ; n = 2): DFT performances and periodic trends. Theoretical Chemistry Accounts, 2011, 129, 389-399.	0.5	40
242	Theoretical insights into the catalytic mechanism of Î²-hexosaminidase. Theoretical Chemistry Accounts, 2011, 129, 119-129.	0.5	13
243	Advances in local hybrid exchangeâ€correlation functionals: from thermochemistry to magneticâ€resonance parameters and hyperpolarizabilities. International Journal of Quantum Chemistry, 2011, 111, 2625-2638.	1.0	42
244	Development of force field parameters for oxyluciferin on its electronic ground and excited states. International Journal of Quantum Chemistry, 2011, 111, 4091-4105.	1.0	28
245	Substrate Hydroxylation by the Oxidoâ€Iron Intermediate in Aromatic Amino Acid Hydroxylases: A DFT Mechanistic Study. European Journal of Inorganic Chemistry, 2011, 2011, 2720-2732.	1.0	5
246	Validation of DFT-Based Methods for Predicting Qualitative Thermochemistry of Large Polyaromatics. ChemPhysChem, 2011, 12, 1100-1108.	1.0	8
247	Compact Folding of Isolated Fourâ€Residue Neutral Peptide Chains: Hâ€Bonding Patterns and Entropy Effects. ChemPhysChem, 2011, 12, 1889-1899.	1.0	45
248	Understanding the Influence of Guestâ€Host Interactions on the Conformation of Short Peptides in a Hydrophobic Cavity: A Computational Study. ChemPhysChem, 2011, 12, 1325-1333.	1.0	2
249	The Effect of Backbone Constraints: The Case of Water Oxidation by the Oxygenâ€Evolving Complex in PSII. ChemPhysChem, 2011, 12, 3274-3280.	1.0	90
250	Substituent Effects on Nonâ€Covalent Interactions with Aromatic Rings: Insights from Computational Chemistry. ChemPhysChem, 2011, 12, 3116-3130.	1.0	132



#	ARTICLE	IF	CITATIONS
251	Benchmarking Density Functional Methods against the S66 and S66x8 Datasets for Non-Covalent Interactions. <i>ChemPhysChem</i> , 2011, 12, 3421-3433.	1.0	283
252	A comparison of the behavior of functional/basis set combinations for hydrogen bonding in the water dimer with emphasis on basis set superposition error. <i>Journal of Computational Chemistry</i> , 2011, 32, 1519-1527.	1.5	137
253	The shape of gaseous <i>n</i> -butylbenzene: Assessment of computational methods and comparison with experiments. <i>Journal of Computational Chemistry</i> , 2011, 32, 1550-1560.	1.5	6
254	Infinite basis set extrapolation for double hybrid density functional theory 1: Effect of applying various extrapolation functions. <i>Journal of Computational Chemistry</i> , 2011, 32, 1671-1679.	1.5	10
255	Accurate bond dissociation enthalpies by using doubly hybrid XYG3 functional. <i>Journal of Computational Chemistry</i> , 2011, 32, 1824-1838.	1.5	26
256	$\pi$ - $\pi$ interaction of quinacridone derivatives. <i>Journal of Computational Chemistry</i> , 2011, 32, 2055-2063.	1.5	11
258	Highly Asymmetric NHC-Catalyzed Hydroacylation of Unactivated Alkenes. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 4983-4987.	7.2	186
259	Conformational preference and <i>cis</i> - <i>trans</i> isomerization of $\alpha$ -methylproline residues. <i>Biopolymers</i> , 2011, 95, 51-61.	1.2	25
260	Conformational preferences and $pK_a$ value of selenocysteine residue. <i>Biopolymers</i> , 2011, 95, 345-353.	1.2	34
261	Mechanistic Insight into Stereoselective Carbolithiation. <i>Chemistry - A European Journal</i> , 2011, 17, 2996-3004.	1.7	35
262	Can Enantioselectivity be Computed in Enthalpic Barrierless Reactions? The Case of Cu-Catalyzed Cyclopropanation of Alkenes. <i>Chemistry - A European Journal</i> , 2011, 17, 529-539.	1.7	14
263	Formation of the Iron-Oxo Hydroxylating Species in the Catalytic Cycle of Aromatic Amino Acid Hydroxylases. <i>Chemistry - A European Journal</i> , 2011, 17, 3746-3758.	1.7	12
264	Competitive Reactions of Organophosphorus Radicals on Coke Surfaces. <i>Chemistry - A European Journal</i> , 2011, 17, 12027-12036.	1.7	23
265	Broken-symmetry natural orbital (BSNO)-Mk-MRCC study on the exchange coupling in the binuclear copper(II) compounds. <i>Chemical Physics Letters</i> , 2011, 505, 11-15.	1.2	20
266	Recent theoretical studies of water oxidation in photosystem II. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2011, 104, 94-99.	1.7	92
267	Three-component conformational equilibria of some flexible pyrrolidin-2-(thi)ones in solution by NMR data ( $^1C$ , $^1H$ , and $nJHH$ ) and their DFT predictions: a confrontation of different approaches. <i>Tetrahedron</i> , 2011, 67, 6901-6916.	1.0	16
268	Theoretical study on the gas and solution phase enthalpies, free energies and equilibrium constants for the isomerisation of [1.1]paracyclophane derivatives as potential molecular switches. <i>Molecular Simulation</i> , 2011, 37, 369-378.	0.9	0
269	A fast doubly hybrid density functional method close to chemical accuracy using a local opposite spin ansatz. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 19896-19900.	3.3	143



#	ARTICLE	IF	CITATIONS
270	A novel relationship between the radical-scavenging activity of flavonoids and enthalpy of formation revealed with Hartree-Fock computations and thermochemical deduction. <i>Redox Report</i> , 2012, 17, 115-130.	1.4	8
271	Long-range corrected hybrid meta-generalized-gradient approximations with dispersion corrections. <i>Journal of Chemical Physics</i> , 2012, 136, 154109.	1.2	101
272	B2-PPW91: A promising double-hybrid density functional for the electric response properties. <i>Journal of Chemical Physics</i> , 2012, 136, 124111.	1.2	30
273	Complexes of type C <sub>6</sub> H <sub>7</sub> +L (L = N <sub>2</sub> and CO <sub>2</sub> ) studied by explicitly correlated coupled cluster theory. <i>Journal of Chemical Physics</i> , 2012, 136, 204301.	1.2	2
274	Basis set convergence of molecular correlation energy differences within the random phase approximation. <i>Journal of Chemical Physics</i> , 2012, 136, 084105.	1.2	92
275	Ab initio calculation of ionization potential and electron affinity of six common explosive compounds. <i>Reports in Theoretical Chemistry</i> , 0, , 11.	0.0	31
276	Why the Standard B3LYP/6-31G* Model Chemistry Should Not Be Used in DFT Calculations of Molecular Thermochemistry: Understanding and Correcting the Problem. <i>Journal of Organic Chemistry</i> , 2012, 77, 10824-10834.	1.7	407
277	Spin Multiplicity and Symmetry Breaking in Vanadium-Benzene Complexes. <i>Physical Review Letters</i> , 2012, 109, 053001.	2.9	32
278	van der Waals Interaction Energies of Small Fragments of P, As, Sb, S, Se, and Te: Comparison of Complete Basis Set Limit CCSD(T) and DFT with Approximate Dispersion. <i>Journal of Chemical Theory and Computation</i> , 2012, 8, 2301-2309.	2.3	6
279	Reliable Quantum Chemical Prediction of the Localized/Delocalized Character of Organic Mixed-Valence Radical Anions. From Continuum Solvent Models to Direct-COSMO-RS. <i>Journal of Chemical Theory and Computation</i> , 2012, 8, 4189-4203.	2.3	83
280	Computational Insight into the Initial Steps of the Mars-van Krevelen Mechanism: Electron Transfer and Surface Defects in the Reduction of Polyoxometalates. <i>Journal of the American Chemical Society</i> , 2012, 134, 20669-20680.	6.6	54
281	Structures and lattice energies of molecular crystals using density functional theory: Assessment of a local atomic potential approach. <i>Chemical Physics Letters</i> , 2012, 550, 94-98.	1.2	22
282	Role of Hydrogen Bonds in Ionic-Liquid-Mediated Extraction of Natural Bioactive Homologues. <i>Industrial &amp; Engineering Chemistry Research</i> , 2012, 51, 5299-5308.	1.8	29
283	Generation of Weakly Bound Al-N Lewis Pairs by Hydroalumination of Ynamines and the Activation of Small Molecules: Phenylethyne and Dicyclohexylcarbodiimide. <i>Organometallics</i> , 2012, 31, 3272-3283.	1.1	70
284	Quenching of magnetism in hexagonal graphene nanoflakes by non-local electron correlation. <i>Chemical Physics Letters</i> , 2012, 553, 6-10.	1.2	20
285	Rearrangement from the heteroantiaromatic borole to the heteroaromatic azaborine motif. <i>Chemical Communications</i> , 2012, 48, 4564.	2.2	42
286	The interaction of His337 with the Mn <sub>4</sub> Ca cluster of photosystem II. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 4651.	1.3	32
287	Fulvenallenyl Cation (C <sub>7</sub> H <sub>5</sub> <sup>+</sup> ) and Its Complex with an Argon Atom: Results of High-Level Quantum-Chemical Calculations. <i>Journal of Physical Chemistry A</i> , 2012, 116, 3448-3453.	1.1	2

#	ARTICLE	IF	CITATIONS
288	Assessment of density functional theory for bonds formed between rare gases and open-shell atoms: a computational study of small molecules containing He, Ar, Kr and Xe. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 553-561.	1.3	10
289	Gas-Phase Reactivity of Group 11 Dimethylmetallates with Allyl Iodide. <i>Journal of the American Chemical Society</i> , 2012, 134, 2569-2580.	6.6	48
290	Energies and Lifetimes of Temporary Anion States of Chloromethanes by Stabilized Koopmans's™ Theorem in Long-Range Corrected Density Functional Theory. <i>Journal of Physical Chemistry A</i> , 2012, 116, 12364-12372.	1.1	8
291	Mechanism for N <sub>2</sub> O Generation in Bacterial Nitric Oxide Reductase: A Quantum Chemical Study. <i>Biochemistry</i> , 2012, 51, 5173-5186.	1.2	81
292	Electronic Structure and Reactivity of Cobalt Oxide Dimers and Their Hexacarbonyl Complexes: A Density Functional Study. <i>Journal of Physical Chemistry A</i> , 2012, 116, 3295-3303.	1.1	12
293	Theoretical Prediction of Triplet-Triplet Energy Transfer Rates in a Benzophenone-Fluorene-Naphthalene System. <i>Journal of Physical Chemistry C</i> , 2012, 116, 12499-12507.	1.5	14
294	Unraveling the Mechanisms of Carboxyl Ester Bond Hydrolysis Catalyzed by a Vanadate Anion. <i>Inorganic Chemistry</i> , 2012, 51, 9619-9628.	1.9	7
295	Improving Predictions of Gas Adsorption in Metal-Organic Frameworks with Coordinatively Unsaturated Metal Sites: Model Potentials, ab initio Parameterization, and GCMC Simulations. <i>Journal of Physical Chemistry C</i> , 2012, 116, 18899-18909.	1.5	102
296	Exploring the Limits of Density Functional Approximations for Interaction Energies of Molecular Precursors to Organic Electronics. <i>Journal of Chemical Theory and Computation</i> , 2012, 8, 4305-4316.	2.3	38
297	Isomerization energies of tetrahedranes to 1,3-cyclobutadienes: A challenge for theoretical methods. <i>Computational and Theoretical Chemistry</i> , 2012, 979, 1-9.	1.1	8
298	Self-consistent addition of an atomic charge dependent hydrogen-bonding correction function. <i>Computational and Theoretical Chemistry</i> , 2012, 984, 9-12.	1.1	3
299	Singlet-triplet excitation energies of naphthyl cations: High level composite method calculations suggest a singlet ground state. <i>Computational and Theoretical Chemistry</i> , 2012, 983, 69-75.	1.1	9
300	Thioformyl chloride dimer: An excellent model system for the assessment of new computational methods. <i>Computational and Theoretical Chemistry</i> , 2012, 983, 83-87.	1.1	2
301	Quantum chemical and theoretical kinetics studies on the reaction of carbonyl sulfide with H, OH and O(3P). <i>Computational and Theoretical Chemistry</i> , 2012, 994, 25-33.	1.1	20
302	Comparison of some dispersion-corrected and traditional functionals with CCSD(T) and MP2 ab initio methods: Dispersion, induction, and basis set superposition error. <i>Journal of Chemical Physics</i> , 2012, 137, 134109.	1.2	49
303	Perspective: Advances and challenges in treating van der Waals dispersion forces in density functional theory. <i>Journal of Chemical Physics</i> , 2012, 137, 120901.	1.2	931
304	A high level computational study of the CH <sub>4</sub> /CF <sub>4</sub> dimer: how does it compare with the CH <sub>4</sub> /CH <sub>4</sub> and CF <sub>4</sub> /CF <sub>4</sub> dimers?. <i>Molecular Physics</i> , 2012, 110, 377-387.	0.8	21
305	A Computational Study of Semiconducting Benzobisthiazoles: Analysis of the Substituent Effects on the Electronic Structure, Solid-State Interactions, and Charge Transport Properties Using DFT Methods. <i>Journal of Physical Chemistry C</i> , 2012, 116, 22663-22674.	1.5	13

#	ARTICLE	IF	CITATIONS
306	Adsorption of Hydrocarbons in Metal-Organic Frameworks: A Force Field Benchmark on the Example of Benzene in Metal-Organic Framework 5. <i>Journal of Physical Chemistry C</i> , 2012, 116, 15369-15377.	1.5	14
307	XYG3 and XYGJ-OS performances for noncovalent binding energies relevant to biomolecular structures. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 12554.	1.3	32
308	Characterization of the Temporary Anion States on Perfluoroalkanes via Stabilized Koopmans' Theorem in Long-Range Corrected Density Functional Theory. <i>Journal of Physical Chemistry A</i> , 2012, 116, 3224-3236.	1.1	12
309	A pass too far: dissociation of internal energy selected paracyclophane cations, theory and experiment. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 11920.	1.3	17
310	Exclusive C-C Oxidative Addition in a Rhodium Thiophosphoryl Pincer Complex and Computational Evidence for an $\eta^3$ -C-C-H Agostic Intermediate. <i>Organometallics</i> , 2012, 31, 505-512.	1.1	33
311	Can two T-shaped isomers of OCS-C <sub>2</sub> H <sub>2</sub> van der Waals complex exist?. <i>Chemical Physics Letters</i> , 2012, 549, 6-11.	1.2	16
312	Investigating inclusion complexes using quantum chemical methods. <i>Chemical Society Reviews</i> , 2012, 41, 3119.	18.7	60
313	Advancing Understanding and Design of Functional Materials Through Theoretical and Computational Chemical Physics. , 2012, , 209-278.		3
314	Practical Aspects of Computational Chemistry II. , 2012, , .		2
315	Explicitly correlated benchmark calculations on C <sub>8</sub> H <sub>8</sub> isomer energy separations: how accurate are DFT, double-hybrid, and composite <i>ab initio</i> procedures?. <i>Molecular Physics</i> , 2012, 110, 2477-2491.	0.8	63
316	Kinetic (T = 201-298 K) and Equilibrium (T = 320-420 K) Measurements of the C <sub>3</sub> H <sub>5</sub> + O <sub>2</sub> $\rightarrow$ C <sub>3</sub> H <sub>5</sub> O <sub>2</sub> Reaction. <i>Journal of Physical Chemistry A</i> , 2012, 116, 3969-3978.	1.1	19
317	Noncovalent Interactions in SIESTA Using the vdW-DF Functional: S22 Benchmark and Macrocyclic Structures. <i>Journal of Chemical Theory and Computation</i> , 2012, 8, 281-289.	2.3	26
318	Dimethylcuprate-Catalyzed Decarboxylative Coupling of Allyl Acetate. <i>Organometallics</i> , 2012, 31, 8012-8023.	1.1	27
319	Mechanisms for proton release during water oxidation in the S2 to S3 and S3 to S4 transitions in photosystem II. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 4849.	1.3	149
320	Modelling the metal atom positions of the Photosystem II water oxidising complex: a density functional theory appraisal of the 1.9 Å... resolution crystal structure. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 11333.	1.3	50
321	Improving density functional theory for crystal polymorph energetics. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 7739.	1.3	32
322	Recent trends in conformational analysis. <i>Wiley Interdisciplinary Reviews: Computational Molecular Science</i> , 2012, 2, 613-641.	6.2	65
323	Synthesis and rotation barriers in 2,6-di- <i>o</i> -anisyl) anisole. <i>Journal of Physical Organic Chemistry</i> , 2012, 25, 878-882.	0.9	2

#	ARTICLE	IF	CITATIONS
324	Can computational approaches aid in untangling the inherent complexity of practical organic photovoltaic systems?. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2012, 50, 1071-1089.	2.4	29
325	A theoretical study of Nâ€“Hâ€“Â·Â·Â·H-bond interaction of pyrrole: from clusters to the liquid. <i>Molecular Physics</i> , 2012, 110, 2151-2161.	0.8	6
326	Correlations between Computation and Experimental Thermodynamics of Halogen Bonding. <i>Journal of Organic Chemistry</i> , 2012, 77, 3483-3491.	1.7	90
327	Fluorescence Lifetimes and Quantum Yields of Rhodamine Derivatives: New Insights from Theory and Experiment. <i>Journal of Physical Chemistry A</i> , 2012, 116, 7491-7497.	1.1	108
328	An Asymmetric Organocatalytic Povarov Reaction with 2-Hydroxystyrenes. <i>Journal of Organic Chemistry</i> , 2012, 77, 6970-6979.	1.7	102
329	M<sc>O</sc>V<sc>I</sc>P<sc>AC</sc>: Vibrational spectroscopy with a robust metaâ€“program for massively parallel standard and inverse calculations. <i>Journal of Computational Chemistry</i> , 2012, 33, 2186-2198.	1.5	59
330	Accurate and fast treatment of large molecular systems: Assessment of CEPA and pCCSD within the local pair natural orbital approximation. <i>Journal of Computational Chemistry</i> , 2012, 33, 2067-2072.	1.5	12
331	Infinite Basis Set Extrapolation for Double Hybrid Density Functional Theory 2: Effect of Adding Diffuse Basis Functions. <i>Journal of the Chinese Chemical Society</i> , 2012, 59, 1094-1103.	0.8	4
332	Axial and equatorial ligand effects on biomimetic cysteine dioxygenase model complexes. <i>Organic and Biomolecular Chemistry</i> , 2012, 10, 5401.	1.5	17
333	Prereactive Complexes in Chlorination of Benzene, Triazine, and Tetrazine: A Quantum Chemical Study. <i>Journal of Physical Chemistry A</i> , 2012, 116, 1298-1306.	1.1	19
334	Understanding Structures and Hydrogen Bonds of Ionic Liquids at the Electronic Level. <i>Journal of Physical Chemistry B</i> , 2012, 116, 1007-1017.	1.2	150
336	Heterolytic Outerâ€“sphere Cleavage of H<sub>2</sub> for the Reduction of N<sub>2</sub> in the Coordination Sphere of Transition Metalsâ€“A DFT Study. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 8225-8229.	7.2	14
337	Iron Borohydride Pincer Complexes for the Efficient Hydrogenation of Ketones under Mild, Baseâ€“Free Conditions: Synthesis and Mechanistic Insight. <i>Chemistry - A European Journal</i> , 2012, 18, 7196-7209.	1.7	180
338	From Single Molecule to Crystal: Mapping Out the Conformations of Tartaric Acids and Their Derivatives. <i>ChemPhysChem</i> , 2012, 13, 1500-1506.	1.0	8
339	Intermolecular Interactions in Weak Donorâ€“Acceptor Complexes from Symmetryâ€“Adapted Perturbation and Coupledâ€“Cluster Theory: Tetracyanoethyleneâ€“Benzene and Tetracyanoethyleneâ€“Xylene. <i>ChemPhysChem</i> , 2012, 13, 2769-2776.	1.0	10
340	Three Types of Induced Tryptophan Optical Activity Compared in Model Dipeptides: Theory and Experiment. <i>ChemPhysChem</i> , 2012, 13, 2748-2760.	1.0	18
341	Assessment of density functional theory to calculate the phase transition pressure of ice. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 11484.	1.3	22
342	Geometries and Vibrational Frequencies of Small Radicals: Performance of Coupled Cluster and More Approximate Methods. <i>Journal of Chemical Theory and Computation</i> , 2012, 8, 2165-2179.	2.3	42

#	ARTICLE	IF	CITATIONS
343	Design of a Universal Reversible Bidirectional Current Switch Based on the Fullerene-Phthalocyanine Supramolecular System. <i>Journal of Physical Chemistry A</i> , 2012, 116, 6785-6791.	1.1	24
344	A theoretical exploration of unexpected amine- $\pi$ interactions. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 10747.	1.3	14
345	Accurate thermochemistry from a parameterized coupled-cluster singles and doubles model and a local pair natural orbital based implementation for applications to larger systems. <i>Journal of Chemical Physics</i> , 2012, 136, 064101.	1.2	68
346	Density functional theory studies on the Diels-Alder reaction of [3]dendralene with C60: an attractive approach for functionalization of fullerene. <i>Theoretical Chemistry Accounts</i> , 2012, 131, 1.	0.5	8
347	DFT investigation of endohedral boron oxide nanocapsules: Encapsulation of He, Ne, Ar, H, N, and Cl atoms. <i>Chemical Physics</i> , 2012, 393, 86-95.	0.9	7
348	Density functional theory calculation of refractive indices of liquid-forming silicon oil compounds. <i>Chemical Physics</i> , 2012, 394, 40-45.	0.9	6
349	The dispersion correction and weak-hydrogen-bond network in low-frequency vibration of solid-state salicylic acid. <i>Chemical Physics Letters</i> , 2012, 531, 98-104.	1.2	27
350	Extending the applicability of the PBE0-DH double-hybrid model to weak interactions. <i>Chemical Physics Letters</i> , 2012, 535, 136-139.	1.2	10
351	The mechanism for proton pumping in cytochrome c oxidase from an electrostatic and quantum chemical perspective. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2012, 1817, 495-505.	0.5	58
352	Progress and Challenges in the Calculation of Electronic Excited States. <i>ChemPhysChem</i> , 2012, 13, 28-51.	1.0	344
353	Electron correlation methods based on the random phase approximation. <i>Theoretical Chemistry Accounts</i> , 2012, 131, 1.	0.5	353
354	An improved theoretical approach to the empirical corrections of density functional theory. <i>Journal of Computer-Aided Molecular Design</i> , 2012, 26, 199-213.	1.3	2
355	Microsolvation effect and hydrogen-bonding pattern of taurine-water TA-(H2O) <sub>n</sub> (n = 1-3) complexes. <i>Journal of Molecular Modeling</i> , 2012, 18, 265-274.	0.8	8
356	Aromatic Interactions as Control Elements in Stereoselective Organic Reactions. <i>Accounts of Chemical Research</i> , 2013, 46, 979-989.	7.6	216
357	Reactivity of amines with hypochlorous acid: Computational study of steric, electronic, and medium effects. <i>International Journal of Quantum Chemistry</i> , 2013, 113, 881-890.	1.0	14
358	Dispersion-corrected Rung 3.5 density functionals. <i>Theoretical Chemistry Accounts</i> , 2013, 132, 1.	0.5	1
359	Water oxidation mechanism in photosystem II, including oxidations, proton release pathways, O-O bond formation and O <sub>2</sub> release. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2013, 1827, 1003-1019.	0.5	335
360	Dynamic <sup>1</sup> H NMR spectroscopic study of hindered internal rotation in selected N,N-dialkyl isonicotinamides: an experimental and DFT analysis. <i>Tetrahedron</i> , 2013, 69, 8147-8154.	1.0	17

#	ARTICLE	IF	CITATIONS
361	A Phosphine-Accelerated Ar<sub>F</sub>â€“Chloride Bond Activation Process by Palladium. <i>Organometallics</i> , 2013, 32, 3074-3082.	1.1	3
362	Comparative analysis of the performance of commonly available density functionals in the determination of geometrical parameters for copper complexes. <i>Journal of Computational Chemistry</i> , 2013, 34, 2079-2090.	1.5	38
363	Zirconium Hydrazides as Metallanitrene Synthons: Release of Molecular N<sub>2</sub> from a Hydrazinediido Complex Induced by Oxidative Nâ€“N Bond Cleavage. <i>Organometallics</i> , 2013, 32, 3877-3889.	1.1	9
364	Synthesis, Structures, and Dearomatization by Deprotonation of Iron Complexes Featuring Bipyridine-based PNN Pincer Ligands. <i>Inorganic Chemistry</i> , 2013, 52, 9636-9649.	1.9	53
365	Association reaction between SiH <sub>3</sub> and H <sub>2</sub> O <sub>2</sub> : a computational study of the reaction mechanism and kinetics. <i>Theoretical Chemistry Accounts</i> , 2013, 132, 1.	0.5	7
366	Water Oxidation Mechanism for Synthetic Coâ€“Oxides with Small Nuclearity. <i>Journal of the American Chemical Society</i> , 2013, 135, 13804-13813.	6.6	106
367	A successive layer-by-layer assembly of supramolecular frameworks driven by a novel type of face-to-face Î€+â€“Î€+ interactions. <i>CrystEngComm</i> , 2013, 15, 7879.	1.3	130
368	Synthesis and Ligand Non-Innocence of Thiolate-Ligated (N <sub>4</sub> S) Iron(II) and Nickel(II) Bis(imino)pyridine Complexes. <i>Inorganic Chemistry</i> , 2013, 52, 10467-10480.	1.9	21
369	Half-metallicity of graphene nanoribbons and related systems: a new quantum mechanical El Dorado for nanotechnologies â€“ or a hype for materials scientists?. <i>Journal of Molecular Modeling</i> , 2013, 19, 2699-2714.	0.8	10
370	Critical Test of Some Computational Chemistry Methods for Prediction of Gas-Phase Acidities and Basicities. <i>Journal of Chemical Theory and Computation</i> , 2013, 9, 3947-3958.	2.3	38
371	What do the azobenzene oligomer helices have to do with the Golden Ratio?. <i>Computational and Theoretical Chemistry</i> , 2013, 1014, 13-23.	1.1	2
372	Intra- and intermolecular forces dependent main chain conformations of esters of Î±,Î²-dehydroamino acids. <i>Journal of Molecular Structure</i> , 2013, 1047, 229-236.	1.8	12
373	Transition polarizability model of induced resonance Raman optical activity. <i>Journal of Computational Chemistry</i> , 2013, 34, 2152-2158.	1.5	23
374	Structure and Stability of Zn, Cd, and Hg Atom Doped Golden Fullerene (Au<sub>32</sub>). <i>Journal of Physical Chemistry C</i> , 2013, 117, 18777-18788.	1.5	16
375	Water adsorption on a copper formate paddlewheel model of CuBTC: A comparative MP2 and DFT study. <i>Chemical Physics Letters</i> , 2013, 587, 7-13.	1.2	40
376	Does Hydrogenâ€“Bonding Donation to Manganese(IV)â€“Oxo and Iron(IV)â€“Oxo Oxidants Affect the Oxygenâ€“Atom Transfer Ability? A Computational Study. <i>Chemistry - A European Journal</i> , 2013, 19, 4058-4068.	1.7	76
377	Activation of Nitriles by Metal Ligand Cooperation. Reversible Formation of Ketimido- and Enamido-Rhenium PNP Pincer Complexes and Relevance to Catalytic Design. <i>Journal of the American Chemical Society</i> , 2013, 135, 17004-17018.	6.6	110
378	Polarization response of methane encapsulated in water cages. <i>Computational and Theoretical Chemistry</i> , 2013, 1013, 52-56.	1.1	4



#	ARTICLE	IF	CITATIONS
379	Economical and Accurate Protocol for Calculating Hydrogen-Bond-Acceptor Strengths. <i>Journal of Chemical Information and Modeling</i> , 2013, 53, 3262-3272.	2.5	14
380	A scaling PNO-MP2 method using a hybrid OSV-PNO approach with an iterative direct generation of OSVs. <i>Molecular Physics</i> , 2013, 111, 2463-2476.	0.8	60
381	Accurate non-covalent interactions with basis-set corrections from interference-corrected perturbation theory: comparison with the S22B database. <i>Molecular Physics</i> , 2013, 111, 2299-2305.	0.8	15
382	Gas storage of simple molecules in boron oxide nanocapsules. <i>International Journal of Quantum Chemistry</i> , 2013, , n/a-n/a.	1.0	1
383	Enhancement in the Stability of 36-Atom Fullerene through Encapsulation of a Uranium Atom. <i>Journal of Physical Chemistry C</i> , 2013, 117, 17859-17869.	1.5	24
384	Ru(O) and Ru(II) Nitrosyl Pincer Complexes: Structure, Reactivity, and Catalytic Activity. <i>Inorganic Chemistry</i> , 2013, 52, 11469-11479.	1.9	29
385	Unexpected strong stacking interactions between the homogeneous dimers of C <sub>6</sub> F <sub>x</sub> I(6-x) (x=0, 1, 2, 3, 4). <i>J. Phys. Chem. C</i> , 2013, 117, 17859-17869.	1.1	12
386	Double-hybrid density functionals: merging wavefunction and density approaches to get the best of both worlds. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 14581.	1.3	100
387	Intramolecular CH/π interactions in alkylaromatics: Monomer conformations for poly(3-alkylthiophene) atomistic models. <i>International Journal of Quantum Chemistry</i> , 2013, 113, 2154-2162.	1.0	31
388	A mechanistic study supports a two-step mechanism for peptide bond formation on the ribosome. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 14931.	1.3	11
389	Conformational control of benzophenone-sensitized charge transfer in dinucleotides. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 18607.	1.3	12
390	Aromatic Excimers: <i>Ab Initio</i> and TD-DFT Study. <i>Journal of Chemical Theory and Computation</i> , 2013, 9, 847-856.	2.3	57
391	Analysis of the performance of DFT-D, M05-2X and M06-2X functionals for studying π-π interactions. <i>Chemical Physics Letters</i> , 2013, 557, 170-175.	1.2	77
392	From clusters to liquid: what are the preferred ways for benzene and pyrrole to interact?. <i>Theoretical Chemistry Accounts</i> , 2013, 132, 1.	0.5	4
393	Critical Evaluation of Implicit Solvent Models for Predicting Aqueous Oxidation Potentials of Neutral Organic Compounds. <i>Journal of Chemical Theory and Computation</i> , 2013, 9, 5046-5058.	2.3	105
394	Assessment of Density Functional Theory for Thermochemical Approaches Based on Bond Separation Reactions. <i>Journal of Physical Chemistry A</i> , 2013, 117, 228-243.	1.1	16
395	Rationalization of the Barrier Height for <i>p</i> -Z-styrene Epoxidation by Iron(IV)-Oxo Porphyrin Cation Radicals with Variable Axial Ligands. <i>Inorganic Chemistry</i> , 2013, 52, 7968-7979.	1.9	66
396	Thermodynamic properties of carbon dioxide clusters by M06-2X and dispersion-corrected B2PLYP-D theory. <i>Chemical Physics Letters</i> , 2013, 573, 19-23.	1.2	30



#	ARTICLE	IF	CITATIONS
397	Analysis of double-hybrid density functionals along the adiabatic connection. <i>Molecular Physics</i> , 2013, 111, 1275-1294.	0.8	42
398	Molecular architecture using novel types of non-covalent $\pi$ -interactions involving aromatic neutrals, aromatic cations and $\pi$ -anions. <i>CrystEngComm</i> , 2013, 15, 1285.	1.3	136
399	Photophysical properties of azaboradibenzo[6]helicene derivatives. <i>Journal of Materials Chemistry C</i> , 2013, 1, 2354.	2.7	27
400	Torsional barriers of substituted biphenyls calculated using density functional theory: a benchmarking study. <i>Organic and Biomolecular Chemistry</i> , 2013, 11, 2859.	1.5	51
401	A Benchmark Study of $H_2$ Activation by $Au_3$ and $Ag_3$ Clusters. <i>Journal of Physical Chemistry C</i> , 2013, 117, 7487-7496.	1.5	15
402	Gas storage of simple molecules in boron oxide nanocapsules. <i>International Journal of Quantum Chemistry</i> , 2013, , n/a-n/a.	1.0	1
403	Perfluorophenylcalix[4]arenes: prospective hosts for nucleophilic guests. Synthesis, structure and quantum chemical calculations. <i>Tetrahedron Letters</i> , 2013, 54, 3496-3499.	0.7	6
404	The ammonium nitrate and its mechanism of decomposition in the gas phase: a theoretical study and a DFT benchmark. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 10849.	1.3	43
405	Theoretical Strategy to Build Structural Models of Microhydrated Inorganic Systems for the Knowledge of Their Vibrational Properties: The Case of the Hydrated Nitrate Aerosols. <i>Journal of Physical Chemistry A</i> , 2013, 117, 3826-3834.	1.1	4
406	Why is the reduction of NO in cytochrome c dependent nitric oxide reductase (cNOR) not electrogenic?. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2013, 1827, 826-833.	0.5	25
407	Natures of benzene-water and pyrrole-water interactions in the forms of $\pi$ f and $\pi$ types: theoretical studies from clusters to liquid mixture. <i>Journal of Molecular Modeling</i> , 2013, 19, 1273-1283.	0.8	17
408	Mechanism and Selectivity of Bioinspired Cinchona Alkaloid Derivatives Catalyzed Asymmetric Olefin Isomerization: A Computational Study. <i>Journal of the American Chemical Society</i> , 2013, 135, 7462-7473.	6.6	69
409	Performance of dispersion-corrected double hybrid density functional theory: A computational study of OCS-hydrocarbon van der Waals complexes. <i>Journal of Chemical Physics</i> , 2013, 138, 164319.	1.2	25
410	Efficient Methods for the Quantum Chemical Treatment of Protein Structures: The Effects of London-Dispersion and Basis-Set Incompleteness on Peptide and Water-Cluster Geometries. <i>Journal of Chemical Theory and Computation</i> , 2013, 9, 3240-3251.	2.3	75
411	Analytic derivatives for the XYG3 type of doubly hybrid density functionals: Theory, implementation, and assessment. <i>Journal of Computational Chemistry</i> , 2013, 34, 1759-1774.	1.5	26
412	Electronic Structure and Chemical Bonding in the $OTi^{\text{IV}}N_2$ Complexes: A Systematic ab Initio and DFT Study. <i>Journal of Physical Chemistry A</i> , 2013, 117, 4462-4471.	1.1	8
413	Interplay between 1,3-Butadien-1,4-diyl and 2-Buten-1,4-dicarbene Derivatives: The Quest for Nucleophilic Carbenes. <i>Journal of the American Chemical Society</i> , 2013, 135, 8022-8030.	6.6	18
414	Strong lone pair $\rightarrow$ $\pi$ interactions between amine and tri-s-triazine derivatives: A theoretical investigation. <i>Computational and Theoretical Chemistry</i> , 2013, 1017, 144-152.	1.1	7

#	ARTICLE	IF	CITATIONS
415	Is There Still Room for Parameter Free Double Hybrids? Performances of PBE0-DH and B2PLYP over Extended Benchmark Sets. <i>Journal of Chemical Theory and Computation</i> , 2013, 9, 3444-3452.	2.3	37
416	Improvement of $\pi$ 1 receptor affinity by late-stage C-H bond arylation of spirocyclic lactones. <i>Bioorganic and Medicinal Chemistry</i> , 2013, 21, 1844-1856.	1.4	98
417	High-Level ab Initio Investigations on Structures and Energetics of $N_2O$ Clusters. <i>Journal of Physical Chemistry A</i> , 2013, 117, 8591-8598.	1.1	10
418	Aromatic Claisen Rearrangements of <i>o</i> -Prenylated Tyrosine and Model Prenyl Aryl Ethers: Computational Study of the Role of Water on Acceleration of Claisen Rearrangements. <i>European Journal of Organic Chemistry</i> , 2013, 2013, 2823-2831.	1.2	18
419	Intermolecular interactions of formic acid with benzene: Energy decomposition analyses with ab initio MP2 and double-hybrid density functional computations. <i>International Journal of Quantum Chemistry</i> , 2013, 113, 2355-2360.	1.0	12
420	Which density functional is close to CCSD accuracy to describe geometry and interaction energy of small noncovalent dimers? A benchmark study using Gaussian09. <i>Journal of Computational Chemistry</i> , 2013, 34, 1341-1353.	1.5	108
421	Substrate Water Exchange for the Oxygen Evolving Complex in PSII in the $S_1$ , $S_2$ , and $S_3$ States. <i>Journal of the American Chemical Society</i> , 2013, 135, 9442-9449.	6.6	102
422	CH Stretching Region: Computational Modeling of Vibrational Optical Activity. <i>Journal of Chemical Theory and Computation</i> , 2013, 9, 3096-3108.	2.3	29
423	Methane CH Activation by Palladium Complexes with Chelating Bis(NHC) Ligands: A DFT Study. <i>Organometallics</i> , 2013, 32, 3469-3480.	1.1	66
424	Description of the Tautomerism in Some Azonaphthols. <i>Journal of Physical Organic Chemistry</i> , 2013, 26, 643-652.	0.9	44
425	Vibrational Spectra and Structures of $N_2O$ and $ON_2$ : A Combined IR Matrix Isolation and Theoretical Study. <i>Journal of Physical Chemistry A</i> , 2013, 117, 1697-1705.	1.1	5
426	Quantum Monte Carlo Study of $\pi$ -Bonded Transition Metal Organometallics: Neutral and Cationic Vanadium-Benzene and Cobalt-Benzene Half Sandwiches. <i>Journal of Chemical Theory and Computation</i> , 2013, 9, 390-400.	2.3	21
427	Dispersion corrected double high-hybrid and gradient-corrected density functional theory study of light cation-dihydrogen ( $M^+H_2$ , where $M = Li, Na, B$ and $Al$ ) van der Waals complexes. <i>Structural Chemistry</i> , 2013, 24, 549-558.	1.0	16
428	Obtaining the lattice energy of the anthracene crystal by modern yet affordable first-principles methods. <i>Journal of Chemical Physics</i> , 2013, 138, 204304.	1.2	17
429	Binding in Radical-Solvent Binary Complexes: Benchmark Energies and Performance of Approximate Methods. <i>Journal of Chemical Theory and Computation</i> , 2013, 9, 1568-1579.	2.3	46
430	Reaching a Uniform Accuracy for Complex Molecular Systems: Long-Range-Corrected XYG3 Doubly Hybrid Density Functional. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 1669-1675.	2.1	63
431	Theoretical study of the photoelectron spectrum of ethyl formate: Ab initio and density functional theory investigation. <i>European Physical Journal: Special Topics</i> , 2013, 222, 2257-2266.	1.2	8
432	The Performance of Density Functionals for Sulfate-Water Clusters. <i>Journal of Chemical Theory and Computation</i> , 2013, 9, 1368-1380.	2.3	69

#	ARTICLE	IF	CITATIONS
433	Exploring Structures and Energetics of Large OCS Clusters by Correlated Methods. <i>Journal of Physical Chemistry A</i> , 2013, 117, 10964-10972.	1.1	11
434	Nonplanar Tertiary Amides in Rigid Chiral Tricyclic Dilactams. Peptide Group Distortions and Vibrational Optical Activity. <i>Journal of Physical Chemistry B</i> , 2013, 117, 9626-9642.	1.2	7
435	Polyoxometalate-Catalyzed Insertion of Oxygen from O <sub>2</sub> into Tin(IV) Alkyl Bonds. <i>Journal of the American Chemical Society</i> , 2013, 135, 19304-19310.	6.6	38
436	Ramachandran Plot for Alanine Dipeptide as Determined from Raman Optical Activity. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 2763-2768.	2.1	55
437	A comparison of geometric parameters from PBE-based doubly hybrid density functionals PBE0-DH, PBE0-2, and xDH-PBE0. <i>Journal of Chemical Physics</i> , 2013, 139, 174106.	1.2	32
438	Theoretical investigation on the 2e/12c bond and second hyperpolarizability of azaphenalenyl radical dimers: Strength and effect of dimerization. <i>Journal of Chemical Physics</i> , 2013, 139, 124314.	1.2	13
440	How important is self-consistency for the dDsC density dependent dispersion correction?. <i>Journal of Chemical Physics</i> , 2014, 140, 18A516.	1.2	24
442	UV-tunable laser induced phototransformations of matrix isolated anethole. <i>Journal of Chemical Physics</i> , 2014, 140, 105102.	1.2	6
443	Systematic testing of Gaussian and complete basis set methods with dispersion corrections for environmentally relevant clusters. <i>Chemical Physics Letters</i> , 2014, 615, 50-55.	1.2	1
444	Kinetics of radical-molecule reactions in aqueous solution: A benchmark study of the performance of density functional methods. <i>Journal of Computational Chemistry</i> , 2014, 35, 2019-2026.	1.5	211
445	Multiple Reaction Pathways Operating in the Mechanism of Vinylogous Mannich-Type Reaction Activated by a Water Molecule. <i>Chemistry - an Asian Journal</i> , 2014, 9, 305-312.	1.7	12
446	Accurate molecular structures and infrared spectra of trans-2,3-dideuteriooxirane, methyloxirane, and trans-2,3-dimethyloxirane. <i>Journal of Chemical Physics</i> , 2014, 141, 034107.	1.2	57
447	Density Functional Theory Beyond the Generalized Gradient Approximation for Surface Chemistry. <i>Topics in Current Chemistry</i> , 2014, , 25-51.	4.0	9
448	Application of the Stabilized Koopmans's Theorem to the Temporary Anion States of Chlorosilanes in Long-Range Corrected Density Functional Theory. <i>Journal of the Chinese Chemical Society</i> , 2014, 61, 1313-1325.	0.8	2
449	A mechanophysical phase transition provides a dramatic example of colour polymorphism: the tribochromism of a substituted tri(methylene)tetrahydrofuran-2-one. <i>Chemistry Central Journal</i> , 2014, 8, 70.	2.6	5
450	Proton pumping in cytochrome c oxidase: Energetic requirements and the role of two proton channels. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2014, 1837, 1165-1177.	0.5	38
451	Halogen bonds with benzene: An assessment of DFT functionals. <i>Journal of Computational Chemistry</i> , 2014, 35, 386-394.	1.5	73
452	Photoinduced Excited State Electron Transfer at Liquid/Liquid Interfaces. <i>Journal of Physical Chemistry B</i> , 2014, 118, 7703-7714.	1.2	9

#	ARTICLE	IF	CITATIONS
453	How Do DFT-DCP, DFT-NL, and DFT-D3 Compare for the Description of London-Dispersion Effects in Conformers and General Thermochemistry?. <i>Journal of Chemical Theory and Computation</i> , 2014, 10, 968-980.	2.3	81
454	Ions in solution: Density corrected density functional theory (DC-DFT). <i>Journal of Chemical Physics</i> , 2014, 140, 18A528.	1.2	87
455	Density Functional Theory in Quantum Chemistry. , 2014, , .		119
456	Assessment of CCSD(T), MP2, DFT-D, CBS-QB3, and G4(MP2) methods for conformational study of alanine and proline dipeptides. <i>Chemical Physics Letters</i> , 2014, 600, 112-117.	1.2	38
457	Double-Hybrid Density Functionals Free of Dispersion and Counterpoise Corrections for Non-Covalent Interactions. <i>Journal of Physical Chemistry A</i> , 2014, 118, 3175-3182.	1.1	23
458	Structures and thermodynamic properties of (C <sub>2</sub> H <sub>6</sub> ) <sub>n</sub> (n=2-8) by M06-2X and DFT-D theory: Implications for Titan's atmospheric chemistry. <i>Chemical Physics Letters</i> , 2014, 601, 194-199.	1.2	1
459	Construction of a parameter-free doubly hybrid density functional from adiabatic connection. <i>Journal of Chemical Physics</i> , 2014, 140, 18A512.	1.2	57
461	Anomeric effects in fluoro and trifluoromethyl piperidines: a computational study of conformational preferences and hydration. <i>Theoretical Chemistry Accounts</i> , 2014, 133, 1.	0.5	5
462	Theoretical Study of POCOP-Pincer Iridium(III)/Iron(II) Hydride Catalyzed Hydrosilylation of Carbonyl Compounds: Hydride Not Involved in the Iridium(III) System but Involved in the Iron(II) System. <i>Organometallics</i> , 2014, 33, 847-857.	1.1	43
463	On the Innocence of Bipyridine Ligands: How Well Do DFT Functionals Fare for These Challenging Spin Systems?. <i>Journal of Chemical Theory and Computation</i> , 2014, 10, 220-235.	2.3	34
464	Stacking of the mutagenic DNA base analog 5-bromouracil. <i>Theoretical Chemistry Accounts</i> , 2014, 133, 1.	0.5	9
465	Fully anharmonic IR and Raman spectra of medium-size molecular systems: accuracy and interpretation. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 1759-1787.	1.3	363
466	Unraveling Organocuprate Complexity: Fundamental Insights into Intrinsic Group Transfer Selectivity in Alkylation Reactions. <i>Journal of Organic Chemistry</i> , 2014, 79, 1320-1334.	1.7	21
467	Quantum Chemical Studies of Mechanisms for Metalloenzymes. <i>Chemical Reviews</i> , 2014, 114, 3601-3658.	23.0	494
468	Computational modelling of oxygenation processes in enzymes and biomimetic model complexes. <i>Chemical Communications</i> , 2014, 50, 262-282.	2.2	110
469	A New-Generation Density Functional. <i>Springer Briefs in Molecular Science</i> , 2014, , .	0.1	20
470	Raman Spectroscopy of Conformational Rearrangements at Low Temperatures. <i>Springer Theses</i> , 2014, , .	0.0	4
471	Unbranched n-Alkanes. <i>Springer Theses</i> , 2014, , 37-117.	0.0	2

#	ARTICLE	IF	CITATIONS
472	Addition of C=C and C-H bonds by pincer-iridium complexes: a combined experimental and computational study. Dalton Transactions, 2014, 43, 16354-16365.	1.6	16
473	Quantum-chemical insights into mixed-valence systems: within and beyond the Robin-Day scheme. Chemical Society Reviews, 2014, 43, 5067-5088.	18.7	168
474	Quantum Chemical Investigations on Molecular Clusters. Chemical Reviews, 2014, 114, 12132-12173.	23.0	170
475	Benchmarking Calculated Lattice Parameters and Energies of Molecular Crystals Using van der Waals Density Functionals. Journal of Chemical Theory and Computation, 2014, 10, 3423-3437.	2.3	56
476	Towards a quantitative understanding of palladium metal scavenger performance: an electronic structure calculation approach. Dalton Transactions, 2014, 43, 469-478.	1.6	10
477	Water oxidation energy diagrams for photosystem II for different protonation states, and the effect of removing calcium. Physical Chemistry Chemical Physics, 2014, 16, 11893.	1.3	46
478	Stretching and folding of 2-nanometer hydrocarbon rods. Soft Matter, 2014, 10, 4885-4901.	1.2	28
479	Non-radiative decay paths in rhodamines: new theoretical insights. Physical Chemistry Chemical Physics, 2014, 16, 20681-20688.	1.3	44
480	Theoretical study of efficiency of metal cations (Mg <sup>2+</sup> , Ca <sup>2+</sup> , and Tl <sup>+</sup> ) in the photocatalytic reduction of CO <sub>2</sub> to formic acid. Journal of Chemical Theory and Computation, 2014, 10, 4222-4228.	0.8	10
481	Thermodynamic stability of PFOS: M06-2X and B3LYP comparison. Computational and Theoretical Chemistry, 2014, 1046, 81-92.	1.1	22
482	Atom Transfer Radical Polymerization (ATRP) and Organometallic Mediated Radical Polymerization (OMRP) of Styrene Mediated by Diaminobis(phenolato)iron(II) Complexes: A DFT Study. Inorganic Chemistry, 2014, 53, 7580-7590.	1.9	40
483	From Molecules to Materials: Computational Design of Ni-Containing Porous Aromatic Frameworks for CO <sub>2</sub> Capture. ChemPhysChem, 2014, 15, 1772-1778.	1.0	11
484	Energy Diagrams for Water Oxidation in Photosystem II Using Different Density Functionals. Journal of Chemical Theory and Computation, 2014, 10, 268-272.	2.3	47
485	Some Observations on Counterpoise Corrections for Explicitly Correlated Calculations on Noncovalent Interactions. Journal of Chemical Theory and Computation, 2014, 10, 3791-3799.	2.3	109
486	Modeling of charge transfer processes to understand photophysical signatures: The case of Rhodamine 110. Chemical Physics Letters, 2014, 610-611, 148-152.	1.2	17
487	Benchmark Torsional Potentials of Building Blocks for Conjugated Materials: Bifuran, Bithiophene, and Biselenophene. Journal of Chemical Theory and Computation, 2014, 10, 3647-3655.	2.3	41
488	Investigating the Role of Solvent-Solute Interaction in Crystal Nucleation of Salicylic Acid from Organic Solvents. Journal of the American Chemical Society, 2014, 136, 11664-11673.	6.6	98
489	Double-hybrid density functionals. Wiley Interdisciplinary Reviews: Computational Molecular Science, 2014, 4, 576-600.	6.2	292

#	ARTICLE	IF	CITATIONS
490	Intermolecular interactions in organic crystals: gaining insight from electronic structure analysis by density functional theory. <i>CrystEngComm</i> , 2014, 16, 7162-7171.	1.3	10
491	van der Waals corrected density functional calculations of the adsorption of benzene on the Cu (111) surface. <i>Journal of Computational Chemistry</i> , 2014, 35, 2263-2271.	1.5	11
492	Chlorination of <i>N</i> -Methylacetamide and Amide-Containing Pharmaceuticals. Quantum-Chemical Study of the Reaction Mechanism. <i>Journal of Physical Chemistry A</i> , 2014, 118, 2367-2376.	1.1	20
493	Influence of Solvent and Solid-State Structure on Nucleation of Parabens. <i>Crystal Growth and Design</i> , 2014, 14, 3890-3902.	1.4	54
494	Coordination of Halide and Chalcogenolate Anions to Heavier 1,2,5-Chalcogenadiazoles: Experiment and Theory. <i>Organometallics</i> , 2014, 33, 4302-4314.	1.1	60
495	Fractional Charge Behavior and Band Gap Predictions with the XYG3 Type of Doubly Hybrid Density Functionals. <i>Journal of Physical Chemistry A</i> , 2014, 118, 9201-9211.	1.1	45
496	Direct observation of two-electron Ag(I)/Ag(III) redox cycles in coupling catalysis. <i>Nature Communications</i> , 2014, 5, 4373.	5.8	65
497	Theoretical Study of the Water Oxidation Mechanism with Non-heme Fe(Pytacn) Iron Complexes. Evidence That the Fe <sup>IV</sup> (O)(Pytacn) Species Cannot React with the Water Molecule To Form the O=O Bond. <i>Inorganic Chemistry</i> , 2014, 53, 5474-5485.	1.9	40
498	Assessment of dispersion-improved exchange-correlation functionals for the simulation of CO <sub>2</sub> binding by alcoholamines. <i>International Journal of Quantum Chemistry</i> , 2014, 114, 805-812.	1.0	14
499	Unraveling the Mechanism of Water Oxidation Catalyzed by Nonheme Iron Complexes. <i>Chemistry - A European Journal</i> , 2014, 20, 5696-5707.	1.7	75
500	Density functional theory: Foundations reviewed. <i>Physics Reports</i> , 2014, 544, 123-239.	10.3	91
501	C-H Bond Cleavage via Metal-Ligand Cooperation by Dearomatized Ruthenium Pincer Complexes. <i>Organometallics</i> , 2014, 33, 3716-3726.	1.1	48
502	Stable Salt-Water Cluster Structures Reflect the Delicate Competition between Ion-Water and Water-Water Interactions. <i>Journal of Physical Chemistry B</i> , 2014, 118, 743-751.	1.2	39
503	Conformational Properties of Oxazole-Amino Acids: Effect of the Intramolecular H $\cdots$ N Hydrogen Bond. <i>Journal of Physical Chemistry B</i> , 2014, 118, 2340-2350.	1.2	17
504	Determination of the Absolute Configuration of Perylene Quinone-Derived Mycotoxins by Measurement and Calculation of Electronic Circular Dichroism Spectra and Specific Rotations. <i>Chemistry - A European Journal</i> , 2014, 20, 11463-11470.	1.7	24
505	Performance of DFT methods and origin of stereoselectivity in bipyridine N,N-dioxide catalyzed allylation and propargylation reactions. <i>Organic and Biomolecular Chemistry</i> , 2014, 12, 8346-8353.	1.5	18
506	An Angular Overlap Model for Cu(II) Ion in the AMOEBA Polarizable Force Field. <i>Journal of Chemical Theory and Computation</i> , 2014, 10, 298-311.	2.3	28
507	Stacking interactions of nickel bis(dithiolene) with benzene. <i>Chemical Physics Letters</i> , 2014, 591, 29-31.	1.2	1



#	ARTICLE	IF	CITATIONS
508	Molecular Structure and Spectroscopic Signatures of Acrolein: Theory Meets Experiment. <i>Journal of Physical Chemistry A</i> , 2014, 118, 6648-6656.	1.1	37
509	Shape of Multireference, Equation-of-Motion Coupled-Cluster, and Density Functional Theory Potential Energy Surfaces at a Conical Intersection. <i>Journal of Chemical Theory and Computation</i> , 2014, 10, 3074-3084.	2.3	161
510	Role of the Isolable Hydride Intermediate in the Hydrosilylation of Carbonyl Compounds Catalyzed by the High-Valent Mono-Oxo-Rhenium(V) Complex. <i>European Journal of Inorganic Chemistry</i> , 2014, 2014, 5714-5723.	1.0	9
511	A Mechanistic Study of the Spontaneous Hydrolysis of Glycylserine as the Simplest Model for Protein Self-Cleavage. <i>Chemistry - A European Journal</i> , 2014, 20, 456-466.	1.7	17
512	Quantum-mechanical study of energies, structures, and vibrational spectra of the H(D)Cl complexed with dimethyl ether. <i>Journal of Chemical Physics</i> , 2015, 143, 204302.	1.2	2
513	Thermodynamic stability of neutral and anionic PFOAs. <i>Theoretical Chemistry Accounts</i> , 2015, 134, 1.	0.5	6
514	Mechanistic Aspects of Aryl-Halide Oxidative Addition, Coordination Chemistry, and Ring-Walking by Palladium. <i>Chemistry - A European Journal</i> , 2015, 21, 16113-16125.	1.7	11
515	Water Oxidation for Simplified Models of the Oxygen-Evolving Complex in Photosystem-II. <i>Chemistry - A European Journal</i> , 2015, 21, 18821-18827.	1.7	11
516	Going clean: structure and dynamics of peptides in the gas phase and paths to solvation. <i>Journal of Physics Condensed Matter</i> , 2015, 27, 493002.	0.7	29
517	Critical evaluation of the potential energy surface of the CH <sub>3</sub> + HO <sub>2</sub> reaction system. <i>Journal of Chemical Physics</i> , 2015, 142, 054308.	1.2	11
518	Global Hybrids from the Semiclassical Atom Theory Satisfying the Local Density Linear Response. <i>Journal of Chemical Theory and Computation</i> , 2015, 11, 122-131.	2.3	22
519	A theoretical study on mitigation of CO <sub>2</sub> through advanced deep eutectic solvents. <i>International Journal of Greenhouse Gas Control</i> , 2015, 39, 62-73.	2.3	55
520	Revisiting the Passerini Reaction Mechanism: Existence of the Nitrilium, Organocatalysis of Its Formation, and Solvent Effect. <i>Journal of Organic Chemistry</i> , 2015, 80, 5652-5657.	1.7	62
521	Inquiry of the reaction paths in thermal retro-Diels-Alder reactions in the gas phase: Theoretical study on the concerted and stepwise elimination mechanisms of cyclohexenes. <i>Computational and Theoretical Chemistry</i> , 2015, 1067, 103-113.	1.1	3
522	Reaction Network of Methanol Synthesis over Cu/ZnO Nanocatalysts. <i>ACS Catalysis</i> , 2015, 5, 4201-4218.	5.5	87
523	Interaction between PH <sub>3</sub> and small water clusters: Understanding the electronic and spectroscopic properties. <i>Computational and Theoretical Chemistry</i> , 2015, 1059, 35-44.	1.1	21
524	Benchmarking Ground-State Geometries and Vertical Excitation Energies of a Selection of P-Type Semiconducting Molecules with Different Polarity. <i>Journal of Physical Chemistry A</i> , 2015, 119, 12876-12891.	1.1	25
525	Noncovalent Interactions of Heteroboranes. <i>Challenges and Advances in Computational Chemistry and Physics</i> , 2015, , 219-239.	0.6	4



#	ARTICLE	IF	CITATIONS
526	Interplay of experiment and theory: high resolution infrared spectrum and accurate equilibrium structure of BF <sub>2</sub> OH. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 30440-30449.	1.3	18
528	Energy dissipative photoprotective mechanism of carotenoid spheroidene from the photoreaction center of purple bacteria <i>Rhodobacter sphaeroides</i> . <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 23468-23480.	1.3	4
529	NTChem: A high-performance software package for quantum molecular simulation. <i>International Journal of Quantum Chemistry</i> , 2015, 115, 349-359.	1.0	55
530	Mechanistic Investigation Into Catalytic Hydrosilylation with a High-Valent Ruthenium(VI) Nitrido Complex: A DFT Study. <i>Organometallics</i> , 2015, 34, 212-220.	1.1	13
531	Benchmark of electronic structure methods for protein-ligand interactions based on high-level reference data. <i>Journal of Theoretical and Computational Chemistry</i> , 2015, 14, 1540001.	1.8	7
532	A computational study on high-valent mono-oxo-rhenium(V) complex-catalyzed hydrosilylation of carbonyls: What a difference an oxo ligand makes. <i>Journal of Molecular Catalysis A</i> , 2015, 400, 31-41.	4.8	7
533	Density Functional Theory and Hydrogen Bonds: Are We There Yet?. <i>ChemPhysChem</i> , 2015, 16, 978-985.	1.0	129
534	Error Accumulations in Adhesive Energies of Dihydrogen Molecular Chains: Performances of the XYG3 Type of Doubly Hybrid Density Functionals. <i>Journal of Physical Chemistry A</i> , 2015, 119, 1590-1599.	1.1	13
535	Dispersion Interactions between Urea and Nucleobases Contribute to the Destabilization of RNA by Urea in Aqueous Solution. <i>Journal of Physical Chemistry B</i> , 2015, 119, 3755-3761.	1.2	16
536	Microsolvation of 2-Thiouracil: Molecular Structure and Spectroscopic Parameters of the Thiouracil-Water Complex. <i>Journal of Physical Chemistry A</i> , 2015, 119, 5386-5395.	1.1	22
537	Exploring the Aqueous Vertical Ionization of Organic Molecules by Molecular Simulation and Liquid Microjet Photoelectron Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2015, 119, 238-256.	1.2	32
538	Dimerization of Two Alkyne Units: Model Studies, Intermediate Trapping Experiments, and Kinetic Studies. <i>Journal of the American Chemical Society</i> , 2015, 137, 1833-1843.	6.6	41
539	Physical and Thermodynamic Properties of Al <sub>n</sub> C <sub>m</sub> Clusters: Quantum-Chemical Study. <i>Journal of Physical Chemistry A</i> , 2015, 119, 1369-1380.	1.1	29
540	Direct and Indirect Effects of Dispersion Interactions on the Electric Properties of Weakly Bound Complexes. <i>Journal of Physical Chemistry A</i> , 2015, 119, 3112-3124.	1.1	12
541	The role of density functional theory methods in the prediction of nanostructured gas-adsorbent materials. <i>Coordination Chemistry Reviews</i> , 2015, 300, 142-163.	9.5	36
542	Encapsulated Guests in the Smallest Spaces: Shrinking Guests by Compression and Investigations under Solvent-Free Conditions. <i>Journal of Organic Chemistry</i> , 2015, 80, 8065-8072.	1.7	5
543	First-Principles Predictions of Vibrational Raman Optical Activity of Globular Proteins. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 3314-3319.	2.1	56
544	A detailed study of cholinium chloride and levulinic acid deep eutectic solvent system for CO <sub>2</sub> capture via experimental and molecular simulation approaches. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 20941-20960.	1.3	133

#	ARTICLE	IF	CITATIONS
545	Molecular hydrogen binding affinities of metal cation decorated substituted benzene systems: insight from computational exploration. <i>RSC Advances</i> , 2015, 5, 57647-57656.	1.7	8
546	Theoretical Study on the Solvation of C <sub>60</sub> Fullerene by Ionic Liquids II: DFT Analysis of the Interaction Mechanism. <i>Journal of Physical Chemistry B</i> , 2015, 119, 10616-10629.	1.2	9
547	An approach for the rationalization of melting temperature for deep eutectic solvents from DFT. <i>Chemical Physics Letters</i> , 2015, 634, 151-155.	1.2	111
548	Enediyne Dimerization vs Bergman Cyclization. <i>Organic Letters</i> , 2015, 17, 1425-1428.	2.4	18
549	Water Effect on Acid-Gas Capture Using Choline Lactate: A DFT Insight beyond Molecule-Molecule Pair Simulations. <i>Journal of Physical Chemistry B</i> , 2015, 119, 5546-5557.	1.2	14
550	A density functional theory insight towards the rational design of ionic liquids for SO <sub>2</sub> capture. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 13559-13574.	1.3	37
551	Theoretical Study of the Reactions of Ethanol with Aluminum and Aluminum Oxide. <i>Journal of Physical Chemistry A</i> , 2015, 119, 3897-3904.	1.1	15
552	The Unexpected Mechanism Underlying the High-Valent Mono-Oxo-Rhenium(V) Hydride Catalyzed Hydrosilylation of C≡N Functionalities: Insights from a DFT Study. <i>ChemPhysChem</i> , 2015, 16, 1052-1060.	1.0	5
553	From Thermodynamics to Kinetics: Enhanced Sampling of Rare Events. <i>Accounts of Chemical Research</i> , 2015, 48, 947-955.	7.6	66
554	Alternative mechanisms for O <sub>2</sub> release and O-O bond formation in the oxygen evolving complex of photosystem II. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 12168-12174.	1.3	97
555	Model Studies on the Dimerization of 1,3-Diacetylenes. <i>Journal of Organic Chemistry</i> , 2015, 80, 5077-5083.	1.7	11
556	Explicit solvent simulations of the aqueous oxidation potential and reorganization energy for neutral molecules: gas phase, linear solvent response, and non-linear response contributions. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 14811-14826.	1.3	19
557	Influence of Microstructure and Interaction on Viscosity of Ionic Liquids. <i>Industrial &amp; Engineering Chemistry Research</i> , 2015, 54, 3505-3514.	1.8	51
558	Steering Power of Perfluoroalkyl Substituents in Crystal Engineering: Tuning the π-π Distance While Maintaining the Lamellar Packing Motif for Aromatics with Various Sizes of π-Conjugation. <i>Crystal Growth and Design</i> , 2015, 15, 2235-2242.	1.4	17
559	Molecular Mechanism of NDMA Formation from <i>N,N</i> -Dimethylsulfamide During Ozonation: Quantum Chemical Insights into a Bromide-Catalyzed Pathway. <i>Environmental Science &amp; Technology</i> , 2015, 49, 4163-4175.	4.6	53
560	Density Functional Theory Study on the Cholinium Dihydrogenphosphate Ionic Liquid for Acid Gas Removal. <i>Journal of Solution Chemistry</i> , 2015, 44, 890-899.	0.6	3
561	Benchmark thermochemistry of chloramines, bromamines, and bromochloramines: halogen oxidants stabilized by electron correlation. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 3584-3598.	1.3	8
562	Quantum Effects in Cation Interactions with First and Second Coordination Shell Ligands in Metalloproteins. <i>Journal of Chemical Theory and Computation</i> , 2015, 11, 4992-5001.	2.3	42

#	ARTICLE	IF	CITATIONS
563	Electromers of the benzene dimer radical cation. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 10624-10629.	1.3	8
564	Understanding the Boron–Nitrogen Interaction and Its Possible Implications in Drug Design. <i>Journal of Physical Chemistry B</i> , 2015, 119, 14393-14401.	1.2	5
565	A computational study of the chlorination and hydroxylation of amines by hypochlorous acid. <i>Organic and Biomolecular Chemistry</i> , 2015, 13, 11740-11752.	1.5	23
566	CC/DFT Route toward Accurate Structures and Spectroscopic Features for Observed and Elusive Conformers of Flexible Molecules: Pyruvic Acid as a Case Study. <i>Journal of Chemical Theory and Computation</i> , 2015, 11, 4342-4363.	2.3	75
567	Stereoelectronic source of the anomalous stability of bis-peroxides. <i>Chemical Science</i> , 2015, 6, 6783-6791.	3.7	79
568	Assessment of DFT methods for studying acid gas capture by ionic liquids. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 26875-26891.	1.3	27
569	Quantum Chemical Benchmark Study on 46 RNA Backbone Families Using a Dinucleotide Unit. <i>Journal of Chemical Theory and Computation</i> , 2015, 11, 4972-4991.	2.3	90
570	Ferric–Thiolate Bond Dissociation Studied with Electronic Structure Calculations. <i>Journal of Physical Chemistry A</i> , 2015, 119, 10084-10090.	1.1	12
571	anti-Diradical Formation in 1,3-Dipolar Cycloadditions of Nitrile Oxides to Acetylenes. <i>Journal of Organic Chemistry</i> , 2015, 80, 12321-12332.	1.7	29
572	Rhodium catalysed conversion of carbenes into ketenes and ketene imines using PNN pincer complexes. <i>Organic Chemistry Frontiers</i> , 2015, 2, 1561-1577.	2.3	31
573	Local response dispersion method: A density-dependent dispersion correction for density functional theory. <i>International Journal of Quantum Chemistry</i> , 2015, 115, 309-324.	1.0	12
574	Non-parametrized functionals with empirical dispersion corrections: A happy match?. <i>Theoretical Chemistry Accounts</i> , 2015, 134, 1.	0.5	16
575	Analytical Double-Hybrid Density Functional Based on the Polynomial Series Expansion of Adiabatic Connection: A Quadratic Approximation. <i>Journal of Chemical Theory and Computation</i> , 2015, 11, 45-54.	2.3	22
576	Hydrogen-bonding interactions between a pyridinium-based ionic liquid [C4Py][SCN] and dimethyl sulfoxide. <i>Chemical Engineering Science</i> , 2015, 121, 169-179.	1.9	40
577	Spectroscopic and ab initio investigation of 2,6-difluorophenylacetylene–amine complexes: coexistence of C–H⋯N and lone-pair⋯π complexes and intermolecular coulombic decay. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 434-443.	1.3	14
578	Computational study of unsaturated and saturated cyclic (alkyl) (amino) carbene borane complexes. <i>Computational and Theoretical Chemistry</i> , 2015, 1051, 17-23.	1.1	3
579	Synthesis and the absolute configuration of both enantiomers of 4,5-dihydroxy-3-(formyl)cyclopent-2-enone acetonide as a new chiral building block for prostanoid synthesis. <i>Organic and Biomolecular Chemistry</i> , 2015, 13, 807-816.	1.5	7
580	Advances in molecular quantum chemistry contained in the Q-Chem 4 program package. <i>Molecular Physics</i> , 2015, 113, 184-215.	0.8	2,561

#	ARTICLE	IF	CITATIONS
581	Assessment of Contemporary Theoretical Methods for Bond Dissociation Enthalpies. Chinese Journal of Chemical Physics, 2016, 29, 453-461.	0.6	6
582	Nonoxido V <sup>IV</sup> Complexes: Prediction of the EPR Spectrum and Electronic Structure of Simple Coordination Compounds and Amavadin. Inorganic Chemistry, 2016, 55, 7373-7387.	1.9	35
583	Comparison of one-parameter and linearly scaled one-parameter double-hybrid density functionals for noncovalent interactions. International Journal of Quantum Chemistry, 2016, 116, 1166-1172.	1.0	5
584	Geometries and properties of the heterobimetallic phosphido-bridged complex. Journal of Structural Chemistry, 2016, 57, 1019-1023.	0.3	1
585	Vibrational infrared and Raman spectra of polypeptides: Fragments-in-fragments within molecular tailoring approach. Journal of Chemical Physics, 2016, 144, 114113.	1.2	32
586	Advanced catalyst design induced enhancement of multi-walled nanotube debundling and electrical conductivity of multi-walled nanotube/silicone composites. RSC Advances, 2016, 6, 48120-48128.	1.7	4
587	Ability of density functional theory methods to accurately model the reaction energy pathways of the oxidation of CO on gold cluster: A benchmark study. Theoretical Chemistry Accounts, 2016, 135, 1.	0.5	11
588	Recent development of atom-pairwise van der waals corrections for density functional theory: From molecules to solids. International Journal of Quantum Chemistry, 2016, 116, 598-607.	1.0	19
589	Troubles in the Systematic Prediction of Transition Metal Thermochemistry with Contemporary Out-of-the-Box Methods. Journal of Chemical Theory and Computation, 2016, 12, 1542-1560.	2.3	42
590	Hydrogen transfer between dimethyl ether and the methoxy radical: Understanding and kinetic modeling with anharmonic torsions. Computational and Theoretical Chemistry, 2016, 1089, 43-53.	1.1	6
591	A spectroscopic and theoretical study in the near-infrared region of low concentration aliphatic alcohols. Physical Chemistry Chemical Physics, 2016, 18, 13666-13682.	1.3	72
592	Origin of the Catalytic Effects of Molecular Iodine: A Computational Analysis. ACS Catalysis, 2016, 6, 3203-3212.	5.5	108
593	Dispersion-Corrected Mean-Field Electronic Structure Methods. Chemical Reviews, 2016, 116, 5105-5154.	23.0	1,032
594	Comprehensive Energetic Scale for Quantitatively Estimating the Fluorinating Potential of N <sup>F</sup> Reagents in Electrophilic Fluorinations. Journal of Organic Chemistry, 2016, 81, 4280-4289.	1.7	50
595	The nature of inter- and intramolecular interactions in F <sub>2</sub> OXe <sup>+</sup> HX (X= F, Cl, Br, I) complexes. Journal of Molecular Modeling, 2016, 22, 119.	0.8	1
596	Beyond energies: geometry predictions with the XYG3 type of doubly hybrid density functionals. Chemical Communications, 2016, 52, 13840-13860.	2.2	18
597	Understanding and modeling the hydrogen-abstraction from dimethyl ether by the methyl radical with torsional anharmonicity. Computational and Theoretical Chemistry, 2016, 1096, 7-16.	1.1	3
598	Dehydrogenation of benzyl alcohol with N <sub>2</sub> O as the hydrogen acceptor catalyzed by the rhodium( <sup>+</sup> ) carbene complex: insights from quantum chemistry calculations. Dalton Transactions, 2016, 45, 16485-16491.	1.6	10

#	ARTICLE	IF	CITATIONS
599	The 1,2-hydrogen shift reaction for monohalogenophosphanes $\text{PH}_2\text{X}$ and $\text{HPX}$ ( $\text{X} = \text{F}, \text{Cl}$ ). <i>Molecular Physics</i> , 2016, 114, 2999-3014.	0.8	3
600	Failure of Density Functional Dispersion Correction in Metallic Systems and Its Possible Solution Using a Modified Many-Body Dispersion Correction. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 3278-3283.	2.1	13
601	The INV24 test set: how well do quantum-chemical methods describe inversion and racemization barriers?. <i>Canadian Journal of Chemistry</i> , 2016, 94, 1133-1143.	0.6	45
602	Model Calculations Suggest that the Central Carbon in the FeMo-Cofactor of Nitrogenase Becomes Protonated in the Process of Nitrogen Fixation. <i>Journal of the American Chemical Society</i> , 2016, 138, 10485-10495.	6.6	92
603	Assessing One- and Two-Photon Optical Properties of Boron Containing Arenes. <i>Journal of Physical Chemistry C</i> , 2016, 120, 17916-17926.	1.5	30
604	Explicit Polarization Theory. , 2016, , 51-82.		2
605	A unified set of experimental organometallic data used to evaluate modern theoretical methods. <i>Dalton Transactions</i> , 2016, 45, 13766-13778.	1.6	24
606	Dissociative electron transfer in polychlorinated aromatics. Reduction potentials from convolution analysis and quantum chemical calculations. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 22573-22582.	1.3	20
607	$[\text{Al}_2\text{O}_4]^{+}$ , a Benchmark Gas-Phase Class II Mixed-Valence Radical Anion for the Evaluation of Quantum-Chemical Methods. <i>Journal of Chemical Theory and Computation</i> , 2016, 12, 3796-3806.	2.3	20
608	New progress in theoretical studies on palladium-catalyzed $\text{C}^{\sim}\text{C}$ bond-forming reaction mechanisms. <i>Science China Chemistry</i> , 2016, 59, 1432-1447.	4.2	24
609	Aiming at an accurate prediction of vibrational and electronic spectra for medium-to-large molecules: An overview. <i>International Journal of Quantum Chemistry</i> , 2016, 116, 1543-1574.	1.0	161
610	Assessment of DFT Functionals for QTAIM Topological Analysis of Halogen Bonds with Benzene. <i>Journal of Physical Chemistry A</i> , 2016, 120, 9071-9080.	1.1	37
611	Prediction of heat of formation for exo -Dicyclopentadiene. <i>Journal of Loss Prevention in the Process Industries</i> , 2016, 44, 433-439.	1.7	7
612	Insights into choline chloride-phenylacetic acid deep eutectic solvent for $\text{CO}_2$ absorption. <i>RSC Advances</i> , 2016, 6, 109201-109210.	1.7	31
613	Investigations on isolated peptides by combined IR/UV spectroscopy in a molecular beam - structure, aggregation, solvation and molecular recognition. <i>International Reviews in Physical Chemistry</i> , 2016, 35, 569-677.	0.9	51
614	A quantum chemical study of HOCl-induced transformations of carbamazepine. <i>Organic and Biomolecular Chemistry</i> , 2016, 14, 10866-10874.	1.5	11
615	Investigation into the Solid and Solution Properties of Known and Novel Polymorphs of the Antimicrobial Molecule Clofazimine. <i>Crystal Growth and Design</i> , 2016, 16, 7240-7250.	1.4	21
616	Thermochemistry and Geometries for Transition-Metal Chemistry from the Random Phase Approximation. <i>Journal of Chemical Theory and Computation</i> , 2016, 12, 5350-5360.	2.3	21

#	ARTICLE	IF	CITATIONS
617	Van der Waals interactions and the limits of isolated atom models at interfaces. <i>Nature Communications</i> , 2016, 7, 11559.	5.8	111
618	Influence of mutations at the proximal histidine position on the Fe–O <sub>2</sub> bond in hemoglobin from density functional theory. <i>Journal of Chemical Physics</i> , 2016, 144, 095101.	1.2	2
619	Substituent effects on gas-phase homolytic Fe–O and Fe–S bond energies of $\text{m-C}_6\text{H}_4\text{OFe(CO)}_2$ ( $\text{i-C}_5\text{H}_5$ ) and $\text{m-C}_6\text{H}_4\text{SFe(CO)}_2$ ( $\text{i-C}_5\text{H}_5$ ) studied using Hartree–Fock and density functional theory methods. <i>Journal of Physical Organic Chemistry</i> , 2016, 29, 172-184.	0.9	5
620	New Insights into Mechanism of Molybdenum(VI)–Dioxo Complex Catalyzed Hydrosilylation of Carbonyls: An Alternative Model for Activating Si–H Bond. <i>Journal of Physical Chemistry A</i> , 2016, 120, 4167-4178.	1.1	6
621	On the inclusion of post-MP <sup>2</sup> contributions to double-hybrid density functionals. <i>Journal of Computational Chemistry</i> , 2016, 37, 183-193.	1.5	30
622	Conformational preferences and synthesis of isomers <i>Z</i> and <i>E</i> of oxazole-dehydrophenylalanine. <i>Biopolymers</i> , 2016, 106, 283-294.	1.2	5
623	Gas phase enthalpies of formation, isomerization, and disproportionation of mono- through tetra-substituted tetrahedranes: A G4(MP2)/G4 theoretical study. <i>Computational and Theoretical Chemistry</i> , 2016, 1075, 30-37.	1.1	5
624	Semiempirical Quantum-Chemical Orthogonalization-Corrected Methods: Benchmarks for Ground-State Properties. <i>Journal of Chemical Theory and Computation</i> , 2016, 12, 1097-1120.	2.3	74
625	N-heterocyclic carbene-stabilized homoatomic lithium(0) complexes with a lithium–lithium covalent bond: A theoretical design and characterization. <i>Inorganic Chemistry Communication</i> , 2016, 63, 61-64.	1.8	3
626	Computational methods for the description of pharmacologically relevant platinum complexes – molecular structure and bond dissociation. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 4051-4062.	1.3	4
627	Interaction mechanism of doxorubicin and SWCNT: protonation and diameter effects on drug loading and releasing. <i>RSC Advances</i> , 2016, 6, 314-322.	1.7	63
628	Electron Detachment and Subsequent Structural Changes of Water Clusters. <i>Journal of Physical Chemistry A</i> , 2016, 120, 1065-1073.	1.1	5
629	Reliable vibrational wavenumbers for C=O and N–H stretchings of isolated and hydrogen-bonded nucleic acid bases. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 8479-8490.	1.3	47
630	Simulations of Gas Adsorption in Thiophene-Based Cyclo-1,4-phenylene-2,5-thienylenes Using First-Principles-derived Force Field. <i>Journal of Physical Chemistry C</i> , 2016, 120, 4329-4336.	1.5	2
631	Coordination and insertion of alkenes and alkynes in Au <sup>III</sup> complexes: nature of the intermediates from a computational perspective. <i>Dalton Transactions</i> , 2016, 45, 5504-5513.	1.6	20
632	Interactions between metal cations with H <sub>2</sub> in the M <sup>+</sup> -H <sub>2</sub> complexes: Performance of DFT and DFT-D methods. <i>Journal of Chemical Sciences</i> , 2016, 128, 621-631.	0.7	16
633	The S66x8 benchmark for noncovalent interactions revisited: explicitly correlated ab initio methods and density functional theory. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 20905-20925.	1.3	182
634	Reactions of Chemically Activated Formic Acid Formed via H <sub>2</sub> SO + $\dot{\text{E}}$ H. <i>Journal of Physical Chemistry A</i> , 2016, 120, 1819-1824.	1.1	9



#	ARTICLE	IF	CITATIONS
635	Benchmark <i>ab Initio</i> Conformational Energies for the Proteinogenic Amino Acids through Explicitly Correlated Methods. Assessment of Density Functional Methods. <i>Journal of Chemical Theory and Computation</i> , 2016, 12, 444-454.	2.3	99
636	Benchmarking semiempirical, Hartree-Fock, DFT, and MP2 methods against the ionization energies and electron affinities of short- through long-chain [n]acenes and [n]phenacenes. <i>Canadian Journal of Chemistry</i> , 2016, 94, 251-258.	0.6	8
637	Quantum chemical study of the reactions of Al, AlO and AlOH with H <sub>2</sub> O <sub>2</sub> . <i>Chemical Physics</i> , 2016, 465-466, 9-16.	0.9	6
638	Theoretical study on fluorescent probes for cyanide based on the indolium functional group. <i>Organic Electronics</i> , 2016, 30, 1-11.	1.4	8
639	Buckminster fullerene adhesion on graphene flakes: Numerical accuracy of dispersion corrected DFT. <i>Polyhedron</i> , 2016, 114, 110-117.	1.0	8
640	Modelling of graphene functionalization. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 6351-6372.	1.3	190
641	Density functional theory study of substituent effects on gas-phase heterolytic Fe=O and Fe=S bond energies of $\text{Fe}(\text{CO})_2(\text{H})_4$ and $\text{Fe}(\text{CO})_2(\text{H})_5$ and $\text{Fe}(\text{CO})_2(\text{H})_4\text{S}$ and $\text{Fe}(\text{CO})_2(\text{H})_5\text{S}$ . <i>Journal of Physical Organic Chemistry</i> , 2017, 30, e3582.	0.9	3
642	Efficient algorithm for multiconfiguration pair-density functional theory with application to the heterolytic dissociation energy of ferrocene. <i>Journal of Chemical Physics</i> , 2017, 146, 034101.	1.2	29
643	Computational Studies on Reaction Mechanism and Origins of Selectivities in Nickel-Catalyzed (2 + 2) Cycloaddition of Alkynes and Alkenes. <i>Journal of Chemical Theory and Computation</i> , 2017, 17, 2150-2159.	1.7	10
644	Long-range interactions from the many-pair expansion: A different avenue to dispersion in DFT. <i>Journal of Chemical Physics</i> , 2017, 146, 024111.	1.2	6
645	Building block candidates for the design of proton exchange membranes: Maleimide and its homologues. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 515-526.	3.8	0
646	Quantum Chemical Methods for the Prediction of Energetic, Physical, and Spectroscopic Properties of Ionic Liquids. <i>Chemical Reviews</i> , 2017, 117, 6696-6754.	23.0	181
647	Understanding the role of Zn <sup>2+</sup> in the hydrolysis of glycylserine: a mechanistic study by using density functional theory. <i>Molecular Physics</i> , 2017, 115, 403-412.	0.8	3
648	The Effect of Conjugation on the Competition between Internal Conversion and Electron Detachment: A Comparison between Green Fluorescent and Red Kaede Protein Chromophores. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 765-771.	2.1	17
649	Variational Effect and Anharmonic Torsion on Kinetic Modeling for Initiation Reaction of Dimethyl Ether Combustion. <i>Journal of Physical Chemistry A</i> , 2017, 121, 1121-1132.	1.1	12
650	Empirical D3 Dispersion as a Replacement for <i>ab Initio</i> Dispersion Terms in Density Functional Theory-Based Symmetry-Adapted Perturbation Theory. <i>Journal of Chemical Theory and Computation</i> , 2017, 13, 1638-1646.	2.3	11
651	Mechanism of extractive/oxidative desulfurization using the ionic liquid imidazole acetate: a computational study. <i>Journal of Molecular Modeling</i> , 2017, 23, 54.	0.8	4
652	Partnering dispersion corrections with modern parameter-free double-hybrid density functionals. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 13481-13487.	1.3	31

#	ARTICLE	IF	CITATIONS
653	Generalized spin-ratio scaled MP2 method for accurate prediction of intermolecular interactions for neutral and ionic species. <i>Journal of Chemical Physics</i> , 2017, 146, 064108.	1.2	34
654	Modeling of <i>S</i> -Nitrosothiolâ€“Thiol Reactions of Biological Significance: HNO Production by Sâ€“Thiolation Requires a Proton Shuttle and Stabilization of Polar Intermediates. <i>ChemBioChem</i> , 2017, 18, 726-738.	1.3	19
655	When does a functional correctly describe both the structure and the energy of the transition state?. <i>Journal of Molecular Modeling</i> , 2017, 23, 65.	0.8	5
656	Benzene and Pyridine on Silicon (001): A Trial Ground for Long-Range Corrections in Density Functional Theory. <i>Journal of Physical Chemistry C</i> , 2017, 121, 10484-10500.	1.5	2
657	A combined theoretical and experimental study of phenol-(acetylene) <i>n</i> ( <i>n</i> = 7) clusters. <i>Journal of Chemical Physics</i> , 2017, 146, 154303.	1.2	6
658	DFT study of host-dopant systems of DPVBi with organophosphorus $\pi$ -conjugated materials. <i>Computational and Theoretical Chemistry</i> , 2017, 1113, 61-71.	1.1	3
659	Efficient Computation of Exchange Energy Density with Gaussian Basis Functions. <i>Journal of Chemical Theory and Computation</i> , 2017, 13, 2571-2580.	2.3	21
660	Adsorption and diffusion of lithium in a graphene/blue-phosphorus heterostructure and the effect of an external electric field. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 267-275.	1.3	29
661	Pyrazole amino acids: hydrogen bonding directed conformations of 3-amino-1H-pyrazole-5-carboxylic acid residue. <i>Journal of Peptide Science</i> , 2017, 23, 716-726.	0.8	2
662	Energetics and reactivity of small beryllium deuterides. <i>Journal of Molecular Modeling</i> , 2017, 23, 203.	0.8	6
663	Tuning the structural, electronic and electrochemical properties of the 4-methyl-1-phenyl triazolium based [PhMeTAZ][Y <sup>1-</sup> ] ionic liquids through changing anions: A quantum chemical study. <i>Journal of Molecular Liquids</i> , 2017, 240, 138-151.	2.3	13
664	Thirty years of density functional theory in computational chemistry: an overview and extensive assessment of 200 density functionals. <i>Molecular Physics</i> , 2017, 115, 2315-2372.	0.8	1,401
665	Conventional and Explicitly Correlated ab Initio Benchmark Study on Water Clusters: Revision of the BEGDB and WATER27 Data Sets. <i>Journal of Chemical Theory and Computation</i> , 2017, 13, 3136-3152.	2.3	81
666	Investigation of polymorphic transitions of piracetam induced during wet granulation. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2017, 119, 36-46.	2.0	10
667	DSD-PBEP86-NL and DOD-PBEP86-NL functionals for noncovalent interactions: Basis set effects and tentative applications to large noncovalent systems. <i>International Journal of Quantum Chemistry</i> , 2017, 117, e25417.	1.0	6
668	Electrodeposition of Al from chloroaluminate ionic liquids with different cations. <i>Ionics</i> , 2017, 23, 2449-2455.	1.2	19
669	Effect of surface roughness on van der Waals and Casimir-Polder/Casimir attraction energies. <i>Surface Science</i> , 2017, 663, 88-99.	0.8	2
670	Confinement of hydrogen and hydroxyl radicals in water cages: a density functional theory study. <i>RSC Advances</i> , 2017, 7, 14537-14543.	1.7	5

#	ARTICLE	IF	CITATIONS
671	Efficient Implementation of Energy Decomposition Analysis for Second-Order Møller-Plesset Perturbation Theory and Application to Anion- $\pi$ Interactions. <i>Journal of Physical Chemistry A</i> , 2017, 121, 717-728.	1.1	30
672	Equilibria and Speciation of Chloramines, Bromamines, and Bromochloramines in Water. <i>Environmental Science &amp; Technology</i> , 2017, 51, 128-140.	4.6	26
673	Density functional theory for modelling large molecular adsorbate-surface interactions: a mini-review and worked example. <i>Molecular Simulation</i> , 2017, 43, 327-345.	0.9	39
674	A look at the density functional theory zoo with the advanced GMTKN55 database for general main group thermochemistry, kinetics and noncovalent interactions. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 32184-32215.	1.3	1,230
675	Development of a Flexible Monomer Two-Body Carbon Dioxide Potential and Its Application to Clusters up to $(\text{CO}_2)_{13}$ . <i>Journal of Computational Chemistry</i> , 2017, 38, 2763-2774.	1.5	13
676	Computational investigations of $S_3$ structures related to a recent X-ray free electron laser study. <i>Chemical Physics Letters</i> , 2017, 690, 172-176.	1.2	20
677	Improving the Efficiency of Beyond-RPA Methods within the Dielectric Matrix Formulation: Algorithms and Applications to the A24 and S22 Test Sets. <i>Journal of Chemical Theory and Computation</i> , 2017, 13, 5432-5442.	2.3	16
678	Calculating the geometry and Raman spectrum of physiological bis(l-histidinato)copper(II): an assessment of DFT functionals for aqueous and isolated systems. <i>Journal of Molecular Modeling</i> , 2017, 23, 290.	0.8	9
679	Exploring the pnictogen bond non-covalent interactions in 4-XPhNH <sub>2</sub> :PFnH <sub>3-n</sub> complexes (n = 1-3, X = H, Tj ETQg 0.0 0 rg BT / Overlock	0.9	3
680	Benchmark Databases of Intermolecular Interaction Energies: Design, Construction, and Significance. <i>Annual Reports in Computational Chemistry</i> , 2017, 13, 3-91.	0.9	8
681	Generalized Optimized Effective Potential for Orbital Functionals and Self-Consistent Calculation of Random Phase Approximations. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 4746-4751.	2.1	18
683	General optimization procedure towards the design of a new family of minimal parameter spin-component-scaled double-hybrid density functional theory. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 26191-26200.	1.3	20
684	Aluminum( $\sigma$ -diketiminato) complexes activate $\text{C}(\text{sp}^2)$ -F and $\text{C}(\text{sp}^3)$ -F bonds by different oxidative addition mechanisms: a DFT study. <i>Chemical Communications</i> , 2017, 53, 8196-8198.	2.2	15
685	Assessment of Density Functionals for Computing Thermodynamic Properties of Lanthanide Complexes. <i>ChemPhysChem</i> , 2017, 18, 2688-2696.	1.0	25
686	Insight into the Role of Additives in Controlling Polymorphic Outcome: A $\text{CO}_2$ -Antisolvent Crystallization Process of Carbamazepine. <i>Crystal Growth and Design</i> , 2017, 17, 4544-4553.	1.4	49
687	Assessment of two hybrid van der Waals density functionals for covalent and non-covalent binding of molecules. <i>Journal of Chemical Physics</i> , 2017, 146, 234106.	1.2	33
688	Cluster size convergence for the energetics of the oxygen evolving complex in PSII. <i>Journal of Computational Chemistry</i> , 2017, 38, 2157-2160.	1.5	6
689	Validation of density functionals for pancake-bonded $\pi$ -dimers; dispersion is not enough. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 24761-24768.	1.3	32

#	ARTICLE	IF	CITATIONS
690	Assessing accuracy of exchange-correlation functionals for electron affinities. <i>Journal of Theoretical and Computational Chemistry</i> , 2017, 16, 1750052.	1.8	1
691	Atmospheric chemistry of CH <sub>3</sub> O: its unimolecular reaction and reactions with H <sub>2</sub> O, NH <sub>3</sub> , and HF. <i>RSC Advances</i> , 2017, 7, 56211-56219.	1.7	11
692	Au(I)-Catalyzed Dimerization of Two Alkyne Units—Interplay between Butadienyl and Cyclopropenylmethyl Cation: Model Studies and Trapping Experiments. <i>Journal of Organic Chemistry</i> , 2017, 82, 13572-13582.	1.7	12
693	Assessment of CCSD(T), MP2, and DFT methods for the calculations of structures and interaction energies of the peptide backbone with water molecules. <i>Chemical Physics Letters</i> , 2017, 687, 23-30.	1.2	11
694	Synthesis meets theory: Past, present and future of rational chemistry. <i>Physical Sciences Reviews</i> , 2017, 2, .	0.8	3
695	Toward reliable modeling of S-nitrosothiol chemistry: Structure and properties of methyl thionitrite (CH <sub>3</sub> SNO), an S-nitrosocysteine model. <i>Journal of Chemical Physics</i> , 2017, 147, 044305.	1.2	11
696	Stereoelectronic Interactions as a Probe for the Existence of the Intramolecular $\hat{\pm}$ -Effect. <i>Journal of the American Chemical Society</i> , 2017, 139, 10799-10813.	6.6	66
697	Identification and characterization of intramolecular $\hat{\pm}$ -halo interaction in dO complexes: a theoretical approach. <i>Journal of Molecular Modeling</i> , 2017, 23, 213.	0.8	1
698	Mechanism of the Copper/TEMPO-Catalyzed Aerobic Oxidation of Alcohols. <i>Chemistry - A European Journal</i> , 2017, 23, 1368-1378.	1.7	45
699	A Comprehensive Overview of the DFT-D3 London-Dispersion Correction. , 2017, , 195-219.		57
700	Intermolecular Interaction Energies from Kohn-Sham Random Phase Approximation Correlation Methods. , 2017, , 65-136.		6
701	Cyclic Compounds Incorporating Two or Four Alkyne Units in Close Proximity — Theory and Experiments. <i>European Journal of Organic Chemistry</i> , 2018, 2018, 2406-2416.	1.2	3
702	Intermolecular dispersion energies from coupled exact-exchange Kohn-Sham excitation energies and vectors. <i>Computational and Theoretical Chemistry</i> , 2018, 1129, 57-69.	1.1	4
703	Thiophene Separation with Silver-Doped Cu-BTC Metal-Organic Framework for Deep Desulfurization. <i>Industrial &amp; Engineering Chemistry Research</i> , 2018, 57, 2956-2966.	1.8	25
704	Origin of Stereocontrol in Photoredox Organocatalysis of Asymmetric $\hat{\pm}$ -Functionalizations of Aldehydes. <i>Journal of Organic Chemistry</i> , 2018, 83, 3333-3338.	1.7	11
705	Insight into catalytic reduction of CO <sub>2</sub> to methane with silanes using Brookhart's cationic Ir( $\kappa^3$ -pincer) complex. <i>RSC Advances</i> , 2018, 8, 9232-9242.	1.7	11
706	Tautomeric preferences of the cis and trans isomers of axitinib. <i>Chemical Physics</i> , 2018, 507, 10-18.	0.9	4
707	Crystal Nucleation of Tolbutamide in Solution: Relationship to Solvent, Solute Conformation, and Solution Structure. <i>Chemistry - A European Journal</i> , 2018, 24, 4916-4926.	1.7	49

#	ARTICLE	IF	CITATIONS
708	Impact of long-range electrostatic and dispersive interactions on theoretical predictions of adsorption and catalysis in zeolites. <i>Catalysis Today</i> , 2018, 312, 51-65.	2.2	35
709	Ultrafast stimulated emission of nitrophenolates in organic and aqueous solutions. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 10713-10720.	1.3	5
710	From Noncovalent Chalcogen-Chalcogen Interactions to Supramolecular Aggregates: Experiments and Calculations. <i>Chemical Reviews</i> , 2018, 118, 2010-2041.	23.0	244
711	Is there computational support for an unprotonated carbon in the E <sub>4</sub> state of nitrogenase?. <i>Journal of Computational Chemistry</i> , 2018, 39, 743-747.	1.5	28
712	Chemistry of oxidomolybdenum(IV) and -(VI) complexes with ONS donor ligands: Synthesis, computational evaluation and oxo-transfer reactions. <i>Polyhedron</i> , 2018, 141, 322-336.	1.0	7
713	What Happens Without Nickel? Cyclization Reactions of Ethylene with Ethanedithial and Related Molecules. <i>Journal of Computational Chemistry</i> , 2018, 39, 1158-1167.	1.5	0
714	Nitrido complex of high-valent Ru(VI) -catalyzed reduction of imines and alkynes with hydrosilanes: A theoretical study of the reaction mechanism. <i>Journal of Organometallic Chemistry</i> , 2018, 864, 2-11.	0.8	6
715	Structural and energetic quantum chemical investigations into how the bioactive thiazolidinedione and rhodanine scaffolds interact with cytosine to form part of DNA. <i>Computational and Theoretical Chemistry</i> , 2018, 1125, 1-14.	1.1	0
716	Hirshfeld-based atomic population analysis of the B, N doping effect in zigzag graphene nanoribbons: $\pi$ electron density as requirement to follow the B, N doping guidelines. <i>Theoretical Chemistry Accounts</i> , 2018, 137, 1.	0.5	4
717	How to tame a palladium terminal imido. <i>Journal of Organometallic Chemistry</i> , 2018, 864, 26-36.	0.8	14
718	A Major Structural Change of the Homocitrate Ligand of Probable Importance for the Nitrogenase Mechanism. <i>Inorganic Chemistry</i> , 2018, 57, 1090-1095.	1.9	28
719	A general range-separated double-hybrid density-functional theory. <i>Journal of Chemical Physics</i> , 2018, 148, 164105.	1.2	33
720	Ozone-Free Synthesis of Ozonides: Assembling Bicyclic Structures from 1,5-Diketones and Hydrogen Peroxide. <i>Journal of Organic Chemistry</i> , 2018, 83, 4402-4426.	1.7	44
721	Molecular engineering of the electronic, structural, and electrochemical properties of nanostructured 1-methyl-4-phenyl 1,2,4 triazolium-based [PhMTZ][X] ionic liquids through anionic changing. <i>Ionics</i> , 2018, 24, 483-504.	1.2	6
722	Adsorption of TNT, DNAN, NTO, FOX7, and NQ onto cellulose, chitin, and cellulose triacetate. Insights from Density Functional Theory calculations. <i>Surface Science</i> , 2018, 668, 54-60.	0.8	14
723	A comparative study of the structures and electronic properties of graphene fragments: A DFT and MP2 survey. <i>Chemical Physics Letters</i> , 2018, 691, 291-297.	1.2	5
724	Mechanistic insights into the catalytic carbonyl hydrosilylation by cationic [CpM(CO) <sub>2</sub> (IMes)] <sup>+</sup> (M = Mo, W) complexes: the intermediacy of $\eta^1$ -H(Si) metal complexes. <i>New Journal of Chemistry</i> , 2018, 42, 4923-4932.	1.4	5
725	The truth is out there: the metal- $\pi$ interactions in crystal of Cr(CO) <sub>3</sub> (pcp) as revealed by the study of vibrational smearing of electron density. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2018, 233, 317-336.	0.4	7

#	ARTICLE	IF	CITATIONS
726	A quantum chemical study of the interactions of uracil as a constituent of ribonucleic acid (RNA) with thiazolidinedione and rhodanine bioactive molecules: an insight into energetic and structural features. <i>Structural Chemistry</i> , 2018, 29, 681-702.	1.0	4
727	<i>N</i> bond energies of $\text{H}^{\text{N}}\text{Fe}(\text{CO})_2(\text{I}^{\text{N}}\text{H})$ and $\text{H}^{\text{N}}\text{N}(\text{COMe})\text{Fe}(\text{CO})_2(\text{I}^{\text{N}}\text{H})$ studied using density functional theory methods. <i>Journal of Physical Organic Chemistry</i> , 2018, 31, e3782.	0.9	1
728	A Systematic DFT Approach for Studying Mechanisms of Redox Active Enzymes. <i>Frontiers in Chemistry</i> , 2018, 6, 644.	1.8	44
729	â€˜Diet GMTKN55â€™ offers accelerated benchmarking through a representative subset approach. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 27735-27739.	1.3	26
730	A New 1:1 Drug-Drug Cocrystal of Theophylline and Aspirin: Discovery, Characterization, and Construction of Ternary Phase Diagrams. <i>Crystal Growth and Design</i> , 2018, 18, 7526-7532.	1.4	61
731	Roaming-like Mechanism for Dehydration of Diol Radicals. <i>Journal of Physical Chemistry A</i> , 2018, 122, 9738-9754.	1.1	7
732	DFT Protocol for EPR Prediction of Paramagnetic Cu(II) Complexes and Application to Protein Binding Sites. <i>Magnetochemistry</i> , 2018, 4, 55.	1.0	30
733	The Nonlocal Kernel in van der Waals Density Functionals as an Additive Correction: An Extensive Analysis with Special Emphasis on the B97M-V and %B97M-V Approaches. <i>Journal of Chemical Theory and Computation</i> , 2018, 14, 5725-5738.	2.3	170
734	Assessment of a range-separated orbital-optimised random-phase approximation electron correlation method. <i>Theoretical Chemistry Accounts</i> , 2018, 137, 1.	0.5	6
735	Organic phototransistors based on perylene diimide nanocrystals lacking $\pi$ - $\pi$ interactions. <i>Journal of Materials Chemistry C</i> , 2018, 6, 10597-10602.	2.7	12
736	Understanding the role of ethylene glycol in a remarkable catalyst-free Strecker reaction of a-CF3 ketimine: A theoretical study. <i>Computational and Theoretical Chemistry</i> , 2018, 1142, 57-65.	1.1	0
737	Thermodynamic Properties of the Methylmethoxy Radical with Intricate Treatment of Two-Dimensional Hindered Internal Rotations. <i>Journal of Chemical &amp; Engineering Data</i> , 2018, 63, 3640-3649.	1.0	3
738	Dimerization of Substituted Arylacetylenesâ€”Quantum Chemical Calculations and Kinetic Studies. <i>Journal of Organic Chemistry</i> , 2018, 83, 7878-7885.	1.7	14
739	Exploring conformational preferences of alanine tetrapeptide by CCSD(T), MP2, and dispersion-corrected DFT methods. <i>Chemical Physics Letters</i> , 2018, 702, 69-75.	1.2	12
740	Puckering transitions in cyclohexane: Revisited. <i>Chemical Physics Letters</i> , 2018, 702, 82-89.	1.2	9
741	Accurate prediction of vertical electronic transitions of Ni(II) coordination compounds via time dependent density functional theory. <i>International Journal of Quantum Chemistry</i> , 2018, 118, e25655.	1.0	16
742	A Comprehensive Assessment of the Effectiveness of Orbital Optimization in Double-Hybrid Density Functionals in the Treatment of Thermochemistry, Kinetics, and Noncovalent Interactions. <i>Journal of Physical Chemistry A</i> , 2018, 122, 5610-5624.	1.1	19
743	Influence of Structurally Related Impurities on the Crystal Nucleation of Curcumin. <i>Crystal Growth and Design</i> , 2018, 18, 4715-4723.	1.4	33



#	ARTICLE	IF	CITATIONS
744	Semi-empirical or non-empirical double-hybrid density functionals: which are more robust?. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 23175-23194.	1.3	102
745	Shannon Entropy in Atoms: A Test for the Assessment of Density Functionals in Kohn-Sham Theory. <i>Computation</i> , 2018, 6, 36.	1.0	4
746	Theoretical Prediction of Blue Phosphorene/Borophene Heterostructure as a Promising Anode Material for Lithium-Ion Batteries. <i>Journal of Physical Chemistry C</i> , 2018, 122, 18294-18303.	1.5	59
747	The S <sub>2</sub> to S <sub>3</sub> transition for water oxidation in PSII (photosystem II), revisited. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 22926-22931.	1.3	61
748	Linear tricationic ionic liquids: Insights into the structural features using DFT and molecular dynamics simulation. <i>Journal of Molecular Liquids</i> , 2018, 271, 96-104.	2.3	17
749	Evaluation of Common Theoretical Methods for Predicting Infrared Multiphotonic Dissociation Vibrational Spectra of Intramolecular Hydrogen-Bonded Ions. <i>ACS Omega</i> , 2018, 3, 9075-9085.	1.6	38
750	Asymmetric Stereogenic PN(H)P Iron(II) Catalysts for the Asymmetric Hydrogenation of Ketones: The Importance of Non-Covalent Interactions in Rational Ligand Design by Computation. <i>Advanced Synthesis and Catalysis</i> , 2018, 360, 2900-2913.	2.1	33
751	Theoretical studies of atmospheric molecular complexes interacting with NIR to UV light. <i>Faraday Discussions</i> , 2018, 212, 421-441.	1.6	7
752	Survival of the most transferable at the top of Jacob's ladder: Defining and testing the double hybrid density functional. <i>Journal of Chemical Physics</i> , 2018, 148, 241736.	1.2	136
753	On the formation of propylene oxide from propylene in space: gas-phase reactions. <i>Theoretical Chemistry Accounts</i> , 2019, 138, 1.	0.5	3
754	Cost-effective density functional theory (DFT) calculations of equilibrium isotopic fractionation in large organic molecules. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 17555-17570.	1.3	11
755	Calculations of the relative populations of C <sub>82</sub> isomers. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2019, 27, 710-714.	1.0	10
756	Exploration of the basic reactant in CO <sub>2</sub> photoreduction: New insights from photophysics and photochemistry. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2019, 382, 111959.	2.0	2
757	Annular Tautomerism of 3(5)-Disubstituted-1H-pyrazoles with Ester and Amide Groups. <i>Molecules</i> , 2019, 24, 2632.	1.7	12
758	Quantum-mechanical study of energies, structures and vibrational spectra of the HF complexed with dimethyl ether. <i>Chemical Physics Letters</i> , 2019, 731, 136590.	1.2	2
759	Structural and photophysical studies of triphenylamine-based nonlinear optical dyes: effects of linker moieties on the D-π-A structure. <i>Comptes Rendus Chimie</i> , 2019, 22, 373-385.	0.2	10
760	Chalcogenide glasses as a playground for the application of first-principles molecular dynamics to disordered materials. <i>Solid State Sciences</i> , 2019, 95, 105925.	1.5	4
761	Locality and strength of intermolecular interactions in organic crystals: using conceptual density functional theory (CDFT) to characterize a highly polymorphic system. <i>Theoretical Chemistry Accounts</i> , 2019, 138, 1.	0.5	3

#	ARTICLE	IF	CITATIONS
762	Computational investigation on the reaction of dimethyl ether with nitric dioxide. I. Underlying mechanism and accurate energetics. <i>Theoretical Chemistry Accounts</i> , 2019, 138, 1.	0.5	4
763	Investigation on the Thermal Dissociation of Vinyl Nitrite with a Saddle Point Involved. <i>ACS Omega</i> , 2019, 4, 16052-16061.	1.6	2
764	Revisiting the Potential Energy Surface of the Stacked Cytosine Dimer: FNO-CCSD(T) Interaction Energies, SAPT Decompositions, and Benchmarking. <i>Journal of Physical Chemistry A</i> , 2019, 123, 9209-9222.	1.1	9
765	Racemization of oxazepam and chiral 1,4-benzodiazepines. DFT study of the reaction mechanism in aqueous solution. <i>Organic and Biomolecular Chemistry</i> , 2019, 17, 1471-1479.	1.5	11
766	Implementation of the Many-Pair Expansion for Systematically Improving Density Functional Calculations of Molecules. <i>Journal of Chemical Theory and Computation</i> , 2019, 15, 1089-1101.	2.3	5
767	Iodine-Catalyzed Nazarov Cyclizations. <i>Journal of Organic Chemistry</i> , 2019, 84, 7587-7605.	1.7	32
768	Does (H <sub>5</sub> O <sub>2</sub> ) <sup>+</sup> X (X = Ar, Ne, He) complex with C <sub>2</sub> symmetry really exist?. <i>Journal of Molecular Liquids</i> , 2019, 288, 111075.	2.3	1
769	Thermal degradation of formamidinium based lead halide perovskites into <i>sym</i> -triazine and hydrogen cyanide observed by coupled thermogravimetry-mass spectrometry analysis. <i>Journal of Materials Chemistry A</i> , 2019, 7, 16912-16919.	5.2	163
770	Calculated relative populations for the Eu@C <sub>82</sub> isomers. <i>Chemical Physics Letters</i> , 2019, 726, 29-33.	1.2	13
771	Infrared Spectroscopy and Mass Spectrometry of CO <sub>2</sub> Clusters during Nucleation and Growth. <i>Journal of Physical Chemistry A</i> , 2019, 123, 2426-2437.	1.1	14
772	DFT Computed Dielectric Response and THz Spectra of Organic Co-Crystals and Their Constituent Components. <i>Molecules</i> , 2019, 24, 959.	1.7	2
773	Electronic Relaxation Dynamics of UV-Photoexcited 2-Aminopurine-Thymine Base Pairs in Watson-Crick and Hoogsteen Conformations. <i>Journal of Physical Chemistry B</i> , 2019, 123, 2904-2914.	1.2	7
774	DFT study on selective autocatalyzed $\alpha$ -alkylation of ketones with alcohols. <i>Journal of Catalysis</i> , 2019, 373, 126-138.	3.1	6
775	Evaluating Transition Metal Barrier Heights with the Latest Density Functional Theory Exchange-Correlation Functionals: The MOBH35 Benchmark Database. <i>Journal of Physical Chemistry A</i> , 2019, 123, 3761-3781.	1.1	104
776	Semiempirical Quantum-Chemical Methods with Orthogonalization and Dispersion Corrections. <i>Journal of Chemical Theory and Computation</i> , 2019, 15, 1743-1760.	2.3	45
777	Dimerization of substituted 4-aryl-1,3-diacetylenes – quantum chemical calculations and kinetic studies. <i>Organic Chemistry Frontiers</i> , 2019, 6, 1010-1021.	2.3	9
778	Effect of the exchange-correlation functional on the synchronicity/nonsynchronicity in bond formation in Diels-Alder reactions: a reaction force constant analysis. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 7412-7428.	1.3	31
779	Capturing a Square Planar Gold(III) Complex Inside a Platinum Nanocage: A Combined Experimental and Theoretical Study. <i>Inorganic Chemistry</i> , 2019, 58, 3189-3195.	1.9	19

#	ARTICLE	IF	CITATIONS
780	Computational Modeling of the Ce@C <sub>82</sub> Metallofullerene Isomeric Composition. ECS Journal of Solid State Science and Technology, 2019, 8, M118-M121.	0.9	9
781	ACCCDB: A collection of chemistry databases for broad computational purposes. Journal of Computational Chemistry, 2019, 40, 839-848.	1.5	42
782	Direct measurements of C <sub>3</sub> F <sub>7</sub> I dissociation rate constants using a shock tube ARAS technique. International Journal of Chemical Kinetics, 2019, 51, 206-214.	1.0	4
783	Evaluating Density Functionals by Examining Molecular Structures, Chemical Bonding, and Relative Energies of Mononuclear RuCl <sub>3</sub> Isomers. Journal of Physical Chemistry A, 2019, 123, 343-358.	1.1	1
784	Unraveling the Link between Solvent-Mediated Proton Transfer and the Salt Formation of Saccharin and Sulfamethazine. Crystal Growth and Design, 2019, 19, 613-619.	1.4	7
785	Theoretical study of the mechanism of the manganese catalase KatB. Journal of Biological Inorganic Chemistry, 2019, 24, 103-115.	1.1	4
786	Anharmonicity of the bonded O H group vibrations in water dimer. DFT study including dispersion interaction. Journal of Molecular Liquids, 2019, 277, 269-279.	2.3	5
787	Generalized Kohn-Sham energy decomposition analysis and its applications. Wiley Interdisciplinary Reviews: Computational Molecular Science, 2020, 10, e1460.	6.2	55
788	Hindered rotational barriers in conjugated donor-acceptor substituted systems: calculations <i>vs.</i> experiments. Physical Chemistry Chemical Physics, 2020, 22, 1214-1221.	1.3	4
789	Substituent effects on the halogen and pnictogen bonds characteristics in ternary complexes 4-PhNH <sub>2</sub> -PH <sub>2</sub> F <sub>2</sub> -ClX (Y = H, F, CN, CHO, NH <sub>2</sub> , CH <sub>3</sub> , NO <sub>2</sub> and OCH <sub>3</sub> , and X = F, OH, CN, NC, FCC and NO <sub>2</sub> ): theoretical study. Journal of Chemical Sciences, 2020, 132, 1.		
790	A computational study of the interaction of C <sub>2</sub> hydrocarbons with CuBTC. Computational Materials Science, 2020, 173, 109438.	1.4	5
791	Study of the mechanisms of dialkyl carbonates directly formed from carbon dioxide and alcohols: New insights from kinetic and thermodynamic processes. Molecular Catalysis, 2020, 482, 110699.	1.0	2
792	Quantitative prediction of electronic absorption spectra of copper(II)-bioligand systems: Validation and applications. Journal of Inorganic Biochemistry, 2020, 204, 110953.	1.5	27
793	Density Functional Theory as a Data Science. Chemical Record, 2020, 20, 618-639.	2.9	9
794	Empirical Double-Hybrid Density Functional Theory: A "Third Way" in Between WFT and DFT. Israel Journal of Chemistry, 2020, 60, 787-804.	1.0	129
795	Conformational preferences of cationic $\beta^2$ -peptide in water studied by CCSD(T), MP2, and DFT methods. Heliyon, 2020, 6, e04721.	1.4	4
796	Investigation of solute-solvent interactions in binary and quaternary solutions containing lithium perchlorate, propylene carbonate, and the deep eutectic solvent (choline chloride/ethylene glycol) at T=(288.15 to 318.15) K. Journal of Molecular Liquids, 2020, 319, 114090.	2.3	8
797	A Local Hybrid Functional with Wide Applicability and Good Balance between (De)Localization and Left-Right Correlation. Journal of Chemical Theory and Computation, 2020, 16, 5645-5657.	2.3	54

#	ARTICLE	IF	CITATIONS
798	Ho <sub>2</sub> O@D <sub>3</sub> (85)-C <sub>92</sub> : Highly Stretched Cluster Dictated by a Giant Cage and Unexplored Isomerization. <i>Inorganic Chemistry</i> , 2020, 59, 11020-11027.	1.9	12
799	Density Functional Theories and Coordination Chemistry. , 2020, , .		2
800	Structure functionality relationship of flavonoids (myricetin, morin, taxifolin and) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 667 Td (3â€²,4â€²) Structure, 2020, 1222, 128923.	1.8	3
801	Adsorption of cytarabine and gemcitabine anticancer drugs on the BNNT surface: DFT and GD3-DFT approaches. <i>Adsorption</i> , 2020, 26, 1365-1384.	1.4	5
802	Structure, Stability, and Spectroscopic Properties of Small Acetonitrile Cation Clusters. <i>Journal of Physical Chemistry A</i> , 2020, 124, 6845-6855.	1.1	6
803	Monomolecular decomposition of C <sub>3</sub> F <sub>7</sub> I and CF <sub>3</sub> I: Theory meets experiment. <i>Journal of Physics: Conference Series</i> , 2020, 1556, 012037.	0.3	1
804	Synthesis of Trialkylamines with Extreme Steric Hindrance and Their Decay by a Hofmann-like Elimination Reaction. <i>Journal of Organic Chemistry</i> , 2020, 85, 13630-13643.	1.7	5
805	On the Kinetic Mechanism of Ignition of Diborane Mixtures with Air. <i>Combustion, Explosion and Shock Waves</i> , 2020, 56, 249-266.	0.3	5
806	Accuracy of intermolecular interaction energies, particularly those of hetero-atom containing molecules obtained by DFT calculations with Grimme's D2, D3 and D3BJ dispersion corrections. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 22508-22519.	1.3	68
807	Efficient yet accurate dispersion-corrected semilocal exchangeâ€“correlation functionals for non-covalent interactions. <i>Journal of Chemical Physics</i> , 2020, 153, 084117.	1.2	10
808	Adsorption and dissociation of molecular hydrogen on Na <sub>3</sub> Al <sub>5</sub> and Na <sub>5</sub> Al <sub>5</sub> clusters. <i>Chemical Physics Letters</i> , 2020, 758, 137922.	1.2	3
809	Toward accurate prediction of amino acid derivatives structure and energetics from DFT: glycine conformers and their interconversions. <i>Journal of Molecular Modeling</i> , 2020, 26, 129.	0.8	15
810	Improving Tabletability of Excipients by Metal-Organic Framework-Based Cocrystallization: a Study of Mannitol and CaCl <sub>2</sub> . <i>Pharmaceutical Research</i> , 2020, 37, 130.	1.7	12
811	Multiâ€“coefficients correlation methods. <i>Wiley Interdisciplinary Reviews: Computational Molecular Science</i> , 2020, 10, e1474.	6.2	4
812	Global uncertainty analysis for the RRKM/master equation modeling of a typical multi-well and multi-channel reaction system. <i>Combustion and Flame</i> , 2020, 216, 62-71.	2.8	13
813	Mechanism of Phosphine-Catalyzed Novel Rearrangement of Vinylcyclopropylketone to Cycloheptenone: A DFT Study. <i>ACS Omega</i> , 2020, 5, 2957-2966.	1.6	6
814	Eu@C <sub>86</sub> isomers: Calculated relative populations. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2020, 28, 565-570.	1.0	7
815	A novel contrast of the reactions of 2,4,6-trinitrotoluene (TNT) in atmospheric-pressure O <sub>2</sub> and N <sub>2</sub> plasma: Experimental and theoretical study. <i>International Journal of Mass Spectrometry</i> , 2020, 450, 116308.	0.7	5

#	ARTICLE	IF	CITATIONS
816	Electronic-level insight into the weak interactions of ion pairs in acetate anion-based ionic liquids. <i>Journal of Molecular Liquids</i> , 2020, 303, 112668.	2.3	10
817	Dual-hybrid direct random phase approximation and second-order screened exchange with nonlocal van der Waals correlations for noncovalent interactions. <i>Journal of Computational Chemistry</i> , 2020, 41, 1018-1025.	1.5	0
818	Modelling Enzymatic Mechanisms with QM/MM Approaches: Current Status and Future Challenges. <i>Israel Journal of Chemistry</i> , 2020, 60, 655-666.	1.0	40
819	Mechanistic Insights into the Chemo-selective Dehydrogenative Silylation of Alkenes Catalyzed by Bis(imino)pyridine Cobalt Complex from DFT Computations. <i>ChemCatChem</i> , 2020, 12, 3890-3899.	1.8	2
820	A new database and benchmark of the bond energies of noble-gas-containing molecules. <i>International Journal of Quantum Chemistry</i> , 2020, 120, e26238.	1.0	6
821	Vapor-Liquid Equilibria and Computational Study for Aqueous Solutions of Novel Deep Eutectic Solvents (Amino Acid/Lactic Acid) at 298.15 K. <i>Journal of Chemical &amp; Engineering Data</i> , 2020, 65, 3262-3269.	1.0	10
822	Theoretical rationalization for the equilibrium between $(\text{1/4-Oxido})\text{Cu}^{\text{II}}\text{Cu}^{\text{II}}$ and $\text{bis}(\text{1/4-oxido})\text{Cu}^{\text{III}}\text{Cu}^{\text{III}}$ complexes: perturbational effects from ligand frameworks. <i>Dalton Transactions</i> , 2020, 49, 6710-6717.	1.6	3
823	Double hybrid DFT calculations with Slater type orbitals. <i>Journal of Computational Chemistry</i> , 2020, 41, 1660-1684.	1.5	16
824	Computation of covalent and noncovalent structural parameters at low computational cost: Efficiency of the DH-SVPD method. <i>International Journal of Quantum Chemistry</i> , 2020, 120, e26233.	1.0	7
825	Theoretical studies on how to tune the hole pnicogen bonds by substitution and cooperative effects. <i>International Journal of Quantum Chemistry</i> , 2021, 121, e26531.	1.0	7
826	The interplay between anion- $\pi$ and H-bonding interactions in $X^{\text{A}}\text{-Triazine}^{\text{B}}\text{-(HF)}_n\text{(HCl)}_{3-n}$ ( $X^{\text{A}} = \text{F}^{\text{A}}, \text{Cl}^{\text{A}}$ ). <i>J ETQqO</i>	0.8	0
827	Thermodynamic and computational study of paracetamol in aqueous solutions of some sustainable amino acid-based ionic liquids. <i>Journal of Chemical Thermodynamics</i> , 2021, 155, 106348.	1.0	9
828	Stacking interactions in cavity-containing molecular structures built from acylphloroglucinols: a computational study. <i>Molecular Physics</i> , 2021, 119, e1800852.	0.8	2
829	Calculated relative populations for the Eu@C84 isomers. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2021, 29, 144-148.	1.0	5
830	Critical benchmarking of popular composite thermochemistry models and density functional approximations on a probabilistically pruned benchmark dataset of formation enthalpies. <i>Journal of Chemical Physics</i> , 2021, 154, 044113.	1.2	10
831	Electronic and geometric determinants of adsorption: fundamentals and applications. <i>JPhys Energy</i> , 2021, 3, 022001.	2.3	18
832	Assessing the Applicability of the Geometric Counterpoise Correction in B2PLYP/Double- $\zeta$ Calculations for Thermochemistry, Kinetics, and Noncovalent Interactions*. <i>Australian Journal of Chemistry</i> , 2021, , .	0.5	2
833	Pairing double hybrid functionals with a tailored basis set for an accurate thermochemistry of hydrocarbons. <i>RSC Advances</i> , 2021, 11, 26073-26082.	1.7	4

#	ARTICLE	IF	CITATIONS
834	Insights into the existing form of glycolaldehyde in methanol solution: an experimental and theoretical investigation. <i>New Journal of Chemistry</i> , 2021, 45, 8149-8154.	1.4	2
835	How many shades of grey? On the proximity of density functional approximation to ab initio method via calculations of electric multipole moments. <i>Journal of Physics: Conference Series</i> , 2021, 1730, 012126.	0.3	0
836	<i>Computational Coordination Chemistry.</i> , 2021, , 241-255.		4
837	Replacing hybrid density functional theory: motivation and recent advances. <i>Chemical Society Reviews</i> , 2021, 50, 8470-8495.	18.7	80
838	The effect of the reagents nature on nucleophilic addition of acetylenes to the C=N bond of aldimines: a quantum-chemical investigation. <i>Journal of Physics: Conference Series</i> , 2021, 1847, 012059.	0.3	0
839	Mechanistic Insights into the Dicopper-Complex-Catalyzed Hydroxylation of Methane and Benzene Using Nitric Oxide: A DFT Study. <i>Inorganic Chemistry</i> , 2021, 60, 4599-4609.	1.9	4
840	Accurate Receptor-Ligand Binding Free Energies from Fast QM Conformational Chemical Space Sampling. <i>International Journal of Molecular Sciences</i> , 2021, 22, 3078.	1.8	14
841	CHAL336 Benchmark Set: How Well Do Quantum-Chemical Methods Describe Chalcogen-Bonding Interactions?. <i>Journal of Chemical Theory and Computation</i> , 2021, 17, 2783-2806.	2.3	42
842	Noncovalent Interactions from Models for the MÅllerâ€Plesset Adiabatic Connection. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 4867-4875.	2.1	15
843	Aldol Condensation <i>versus</i> Superbase-Catalyzed Addition of Ketones to Acetylenes: A Quantum-Chemical and Experimental Study. <i>Journal of Organic Chemistry</i> , 2021, 86, 7439-7449.	1.7	6
844	Iodineâ€Catalyzed Dielsâ€Alder Reactions. <i>ChemCatChem</i> , 2021, 13, 2922-2930.	1.8	12
845	A density functional theory study of the hydride shift in the Eschweilerâ€Clarke reaction. <i>Journal of Physical Organic Chemistry</i> , 2021, 34, e4253.	0.9	0
846	A computational characterization of H <sub>2</sub> O <sub>2</sub> @C <sub>60</sub> . <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2022, 30, 258-262.	1.0	2
847	Initial Thermal Decomposition Mechanism of (NH <sub>2</sub> ) <sub>2</sub> C(NO <sub>2</sub> )(ONO) Revealed by Double-Hybrid Density Functional Calculations. <i>ACS Omega</i> , 2021, 6, 15292-15299.	1.6	3
848	Role of Dispersion Interactions in Endohedral TM@(ZnS) <sub>12</sub> Structures. <i>ACS Omega</i> , 2021, 6, 16612-16622.	1.6	0
849	Laboratory Detection of Cyanoacetic Acid: A Jet-cooled Rotational Study. <i>Astrophysical Journal</i> , 2021, 915, 76.	1.6	4
850	Calculated Relative Thermodynamic Stabilities of the Gd@C <sub>82</sub> Isomers. <i>ECS Journal of Solid State Science and Technology</i> , 2021, 10, 071013.	0.9	8
851	Examination of How Well Long-Range-Corrected Density Functionals Satisfy the Ionization Energy Theorem. <i>Journal of Chemical Theory and Computation</i> , 2021, 17, 4823-4830.	2.3	17



#	ARTICLE	IF	CITATIONS
852	Density Functional Theory for Electrocatalysis. Energy and Environmental Materials, 2022, 5, 157-185.	7.3	95
853	Extraterrestrial Organic Molecules from [SiX] <sup>+</sup> Ions: A Coupled Cluster Theory Inquest for Plausible Reaction Pathways. ACS Earth and Space Chemistry, 2021, 5, 2086-2093.	1.2	0
854	Computational Study of the Effect of Doping with Ti on NaAlH <sub>4</sub> Nanocluster Dehydrogenation. Russian Journal of Physical Chemistry A, 2021, 95, 1646-1654.	0.1	0
855	Tautomeric equilibrium, proton affinity and mass spectrometry fragmentation of flexible hydrogen-bonded precursors and rigid $\text{N} \rightarrow \text{BF}_2$ fluorescent dyes. Scientific Reports, 2021, 11, 15995.	1.6	2
856	Theoretical and experimental study of IR spectra of large phenol-acetylene clusters, Ph(Ac) <sub>n</sub> for 8 ≤ n ≤ 12. Journal of the Indian Chemical Society, 2021, 98, 100100.	1.3	2
857	Relative energetics of CH <sub>3</sub> CH <sub>2</sub> O, CH <sub>3</sub> CHOH, and CH <sub>2</sub> CH <sub>2</sub> OH radical products from ethanol dehydrogenation. Journal of Chemical Physics, 2021, 155, 114306.	1.2	1
858	Some thermodynamic properties and computational study of DESs (choline chloride/ethylene glycol). Journal of Chemical Thermodynamics, 2022, 165, 106642.	1.0	5
859	Density Functional Calculations Based on the Exponential Ansatz. Journal of Physical Chemistry A, 2021, 125, 8751-8763.	1.1	2
860	Effect of choline chloride based deep eutectic solvents on lithium perchlorate/propylene carbonate solutions: Thermodynamic, transport, electrochemical and computational study. Journal of the Taiwan Institute of Chemical Engineers, 2021, 128, 20-29.	2.7	2
861	Quantification and understanding of non-covalent interactions in molecular and ionic systems: Dispersion interactions and hydrogen bonding analysed by thermodynamic methods. Journal of Molecular Liquids, 2021, 343, 117547.	2.3	13
862	A comprehensive theoretical analysis of Curtius rearrangement of syn-syn and syn-anti conformers of oxalyl diazide. Journal of Molecular Graphics and Modelling, 2021, 109, 108012.	1.3	1
863	Sterics, the core of intermolecular interactions. , 2021, , 1-38.		0
864	Cycloaddition mechanisms of CO <sub>2</sub> and epoxide catalyzed by salophen <sup>−</sup> an organocatalyst free from metals and halides. Catalysis Science and Technology, 2021, 11, 2529-2539.	2.1	8
865	Realization of the Zn <sup>3+</sup> oxidation state. Nanoscale, 2021, 13, 14041-14048.	2.8	13
867	Unraveling the Mechanisms of Ribozyme Catalysis with Multiscale Simulations. Challenges and Advances in Computational Chemistry and Physics, 2009, , 377-408.	0.6	1
868	Density Functional Calculations. , 2016, , 483-563.		1
869	A New Generation of Doubly Hybrid Density Functionals (DHDFs). Springer Briefs in Molecular Science, 2014, , 25-45.	0.1	2
870	Coupled Cluster Calculations: Ovov as an Alternative Avenue Towards Treating Still Larger Molecules. Challenges and Advances in Computational Chemistry and Physics, 2010, , 429-454.	0.6	3

#	ARTICLE	IF	CITATIONS
871	Low-Scaling Tensor Hypercontraction in the Cholesky Molecular Orbital Basis Applied to Second-Order Møller-Plesset Perturbation Theory. <i>Journal of Chemical Theory and Computation</i> , 2021, 17, 211-221.	2.3	11
872	Chapter 11. Water Oxidation by PSII: A Quantum Chemical Approach. <i>Chemical Biology</i> , 0, , 273-295.	0.1	1
873	Formation of interstellar cyanoacetamide: a rotational and computational study. <i>Astronomy and Astrophysics</i> , 2020, 644, A3.	2.1	4
874	Theoretical Background of the Fragment Molecular Orbital (FMO) Method and Its Implementation in GAMESS. , 2009, , 5-36.		18
875	Assessment of the Performance of B2PLYP-D for Describing Intramolecular $\pi$ - $\pi$ and $\pi$ - $f$ Interactions. <i>Bulletin of the Korean Chemical Society</i> , 2011, 32, 4195-4198.	1.0	5
876	Why the Standard B3LYP/6-31G* Model Chemistry Should Not Be Used in DFT Calculations of Molecular Thermochemistry: Understanding and Correcting the Problem. <i>Journal of Organic Chemistry</i> , 2012, 77, 10824-10834.	1.7	14
877	Structural and Vibrational Properties of Amino Acids from Composite Schemes and Double-Hybrid DFT: Hydrogen Bonding in Serine as a Test Case. <i>Journal of Physical Chemistry A</i> , 2021, 125, 9099-9114.	1.1	9
878	Structure and IR Spectroscopic Properties of HNCO Complexes with SO <sub>2</sub> Isolated in Solid Argon. <i>Molecules</i> , 2021, 26, 6441.	1.7	2
879	Combined QM/MM methods for the simulation of condensed phase processes using an approximate DFT approach. <i>Challenges and Advances in Computational Chemistry and Physics</i> , 2008, , 381-405.	0.6	0
880	Electron correlation methods based on the random phase approximation. , 2012, , 103-120.		0
881	Formation of Van Der Waals Complexes in Concerted Unimolecular Elimination Processes. , 2012, 2012, 1-7.		1
882	$\pi$ -Stacking on Density Functional Theory: A Review. , 2014, , 245-270.		1
883	Benchmarking the Performance of DHDFs for the Main Group Chemistry. <i>Springer Briefs in Molecular Science</i> , 2014, , 47-77.	0.1	0
884	Corrections for Functionals. , 2014, , 125-160.		0
886	Highly conductive MWNT/silicone composite with low density MWNT bundles. <i>International Symposium on Microelectronics</i> , 2015, 2015, 000638-000643.	0.3	0
888	Rotameric Isomers of La <sub>2</sub> @C <sub>80</sub> & Dodecafluoro-Subphthalocyanine Conjugate: Computational Characterization. <i>ECS Journal of Solid State Science and Technology</i> , 2020, 9, 061014.	0.9	6
890	Structural and Energetic Properties of Amino Acids and Peptides Benchmarked by Accurate Theoretical and Experimental Data. <i>Journal of Physical Chemistry A</i> , 2021, 125, 9826-9837.	1.1	6
891	Correlation Effects in Trimeric Acylphloroglucinols. <i>Computation</i> , 2021, 9, 121.	1.0	5

#	ARTICLE	IF	CITATIONS
892	Estimation of electron absorption spectra and lifetime of the two lowest singlet excited states of pyrimidine nucleobases and their derivatives. <i>Journal of Molecular Structure</i> , 2021, 1250, 131863.	1.8	4
893	The ground and ionized states of azulene: A combined study of the vibrational energy levels by photoionization, configuration interaction, and density functional calculations. <i>Journal of Chemical Physics</i> , 2022, 156, 064305.	1.2	2
894	Dispersion size-consistency. <i>Electronic Structure</i> , 2022, 4, 014003.	1.0	3
895	Matrix Isolation FTIR and Theoretical Study of Weakly Bound Complexes of Isocyanic Acid with Nitrogen. <i>Molecules</i> , 2022, 27, 495.	1.7	5
896	A general justification for hybrid functionals in DFT by means of linear response theory*. <i>Journal of Physics Condensed Matter</i> , 2022, 34, 194004.	0.7	0
897	Density Functional Theory for Transition Metal Catalysis. , 2024, , 562-585.		0
898	Mechanistic study on reduction of nitric oxide to nitrous oxide using a dicopper complex. <i>Dalton Transactions</i> , 2022, 51, 5399-5403.	1.6	1
899	Strain and external electric field modulation of the electronic and optical properties of GaN/WSe <sub>2</sub> vdWHs. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2022, 142, 115258.	1.3	16
900	Incorporation of Different Metal Ion for Tuning Color and Enhancing Antioxidant Activity of Curcumin/Palygorskite Hybrid Materials. <i>Frontiers in Chemistry</i> , 2021, 9, 760941.	1.8	6
901	Generation of Phenol and Molecular Hydrogen through Catalyst-Free C-H Activation of Benzene by Water Radical Cations. <i>Journal of the American Society for Mass Spectrometry</i> , 2022, 33, 68-73.	1.2	7
902	Small-Basis Set Density-Functional Theory Methods Corrected with Atom-Centered Potentials. <i>Journal of Chemical Theory and Computation</i> , 2022, 18, 2913-2930.	2.3	4
903	Superhalogen Anions Supported by the Systems Comprising Alternately Aligned Boron and Nitrogen Central Atoms. <i>Frontiers in Chemistry</i> , 2022, 10, 863408.	1.8	3
904	Double Hybrids and Noncovalent Interactions: How Far Can We Go?. <i>Journal of Physical Chemistry A</i> , 2022, 126, 2590-2599.	1.1	9
905	Effect of new DFT methods on spectroscopy and NLO analysis of 2-Bromo-5-nitrothiazole and nitrosodimethylamine. <i>Journal of Molecular Modeling</i> , 2022, 28, 135.	0.8	0
906	Conformational preferences and intramolecular hydrogen bonding patterns of tetraflavaspodic acid BBBB a tetrameric acylphloroglucinol. <i>ChemistrySelect</i> , 2022, .	0.7	0
907	Weakly Bound Complex Formation between HCN and CH <sub>3</sub> Cl: A Matrix-Isolation and Computational Study. <i>Journal of Physical Chemistry A</i> , 2022, 126, 3110-3123.	1.1	4
908	Theoretical mechanistic insights into the polar hydrohalogenation of olefins. <i>Organic and Biomolecular Chemistry</i> , 2022, 20, 4976-4985.	1.5	2
909	Quantum Chemical Calculation on the Decomposition Mechanism of Na <sub>3</sub> AlF <sub>6</sub> . <i>Russian Journal of Physical Chemistry A</i> , 2022, 96, 1035-1043.	0.1	2

#	ARTICLE	IF	CITATIONS
910	A theoretical analysis on the electron and energy transfer between host and guest materials in phosphor-doped OLED. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2022, 432, 114058.	2.0	2
911	Peat-derived nitrogen-doped porous carbons as photothermal-assisted visible-light photocatalysts for water splitting. <i>New Carbon Materials</i> , 2022, 37, 585-594.	2.9	3
912	Analytic Gradients for the Long-Range-Corrected XYG3 Type of Doubly Hybrid Density Functionals: Theory, Implementation, and Assessment. <i>Journal of Physical Chemistry A</i> , 2022, 126, 3937-3946.	1.1	1
913	Density Functional Theory Study on the Electronic, Optical and Adsorption Properties of Ti-, Fe- and Ni- Doped Graphene. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
914	Experimental studies on thermophysical properties of protic ionic liquids for thermal energy storage systems. <i>Journal of Energy Storage</i> , 2022, 54, 105251.	3.9	15
915	Mechanistic Insights into Criegee Intermediate Hydroperoxyl Radical Chemistry. <i>Journal of the American Chemical Society</i> , 2022, 144, 14740-14747.	6.6	3
916	Verification of the Accuracy and Efficiency of Dispersion-Corrected Density Functional Theory Methods to Describe the Lattice Structure and Energy of Energetic Cocrystals. <i>Crystal Growth and Design</i> , 2022, 22, 5307-5321.	1.4	5
917	Density functional theory study on the electronic, optical and adsorption properties of Ti-, Fe- and Ni-doped graphene. <i>Diamond and Related Materials</i> , 2022, 128, 109290.	1.8	6
918	Antimony(III)-selenium complexes with synergetic effect between Sb Se bond and Sb- interactions. <i>Polyhedron</i> , 2022, 225, 116069.	1.0	0
919	Two-dimensional GaS/MoTe <sub>2</sub> van der Waals heterostructures with tunable electronic and optical properties. <i>Materials Science in Semiconductor Processing</i> , 2022, 152, 107103.	1.9	4
920	SiC <sub>2</sub> /BP <sub>5</sub> : A pentagonal van der Waals heterostructure with tunable optoelectronic and mechanical properties. <i>Applied Surface Science</i> , 2022, 606, 154857.	3.1	2
921	SiC <sub>2</sub> /Bp <sub>5</sub> : A Pentagonal Van Der Waals Heterostructure with Tunable Optoelectronic and Mechanical Properties. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
922	Theoretical Predictions of Fullerene Stabilities. , 2022, , 111-179.		1
923	Intramolecular Hydrogen Bonding Patterns and Conformational Preferences of Ouabain A Molecule with Cardiotoxic and Antiviral Activities. <i>Engineering Materials</i> , 2022, , 671-696.	0.3	0
924	Semistabilized Diazatrienyl Anions from Pyridine Imines and Acetylenes: An Access to (<math>Z</math>)-Stilbene/Imidazopyridine Ensembles, Benzyl Imidazopyridines, and Beyond. <i>Journal of Organic Chemistry</i> , 2022, 87, 12225-12239.	1.7	8
925	Unveiling the Shape of <math>N</math>-Acetylgalactosamine: A Cancer-Associated Sugar Derivative. <i>Journal of Physical Chemistry A</i> , 2022, 126, 7621-7626.	1.1	1
926	Explicitly Correlated Double-Hybrid DFT: A Comprehensive Analysis of the Basis Set Convergence on the GMTKN55 Database. <i>Journal of Chemical Theory and Computation</i> , 2022, 18, 5978-5991.	2.3	15
927	Advancing the Electrochemistry of Gas-Involved Reactions through Theoretical Calculations and Simulations from Microscopic to Macroscopic. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	29

#	ARTICLE	IF	CITATIONS
928	New task-specific ionic liquids based on phenyl diazenyl methyl pyridinium cation: Energetic, electronic and optical properties exploration based on DFT calculations. <i>Journal of Molecular Graphics and Modelling</i> , 2023, 118, 108352.	1.3	2
929	Eu@C <sub>88</sub> Isomers: Calculated Relative Populations. <i>ECS Journal of Solid State Science and Technology</i> , 2022, 11, 101008.	0.9	1
930	Reaction Mechanisms for Chiral Phosphate Catalyzed Transformations Involving Cationic Intermediates and Protic Nucleophiles. <i>Synlett</i> , 0, , .	1.0	0
931	Theoretical Predictions of Fullerene Stabilities. , 2021, , 1-70.		0
932	Solubility enhancement and intermolecular interactions of salicylic acid in aqueous solutions of choline chloride based deep eutectic solvents. <i>Journal of Molecular Liquids</i> , 2022, 367, 120433.	2.3	7
933	Assessment of advanced xDH@B3LYP methods in describing various potential energy curves driven by <i>I</i>-<i>I</i>, CH/<i>I</i>, and SH/<i>I</i> non-bonded interactions. <i>Chinese Journal of Chemical Physics</i> , 2022, 35, 720-726.	0.6	2
934	Towards pharmaceutical protein stabilization: DFT and statistical learning studies on non-enzymatic peptide hydrolysis degradation mechanisms. <i>Computational and Theoretical Chemistry</i> , 2022, 1218, 113938.	1.1	1
935	Cluster Amplitudes and Their Interplay with Self-Consistency in Density Functional Methods. <i>ChemPhysChem</i> , 0, , .	1.0	1
936	Towards predictive computational catalysis â€” a case study of olefin metathesis with Mo imido alkylidene N-heterocyclic carbene catalysts. <i>Chemical Modelling</i> , 2022, , 1-23.	0.2	1
937	The vertical excitation energies and a lifetime of the two lowest singlet excited states of the conjugated polyenes from <sc>C2</sc> to <sc>C22</sc>: Ab initio, <sc>DFT,</sc> and semiclassical <sc>MNDOâ€MD</sc> simulations. <i>Journal of Computational Chemistry</i> , 2023, 44, 777-787.	1.5	4
938	Benzo[1,4]diazocinone/Pyrrole Ensembles via the Catalyst-Free Insertion of Pyrrolylacetylenic Ketones into Benzimidazoles. <i>ChemistrySelect</i> , 2022, 7, .	0.7	3
939	Structure and Spectroscopic Signatures of Interstellar Sodium Isocyanate Isomers. <i>Astrophysical Journal</i> , 2022, 941, 40.	1.6	2
940	Quantitative Descriptions of Dewar-Chatt-Duncanson Bonding Model: A Case Study of Zeise and Its Family Ions. <i>ChemPhysChem</i> , 2023, 24, .	1.0	3
941	Iodine-Catalyzed Claisen-Rearrangements of Allyl Aryl Ethers and Subsequent Iodocyclizations. <i>Chemistry - an Asian Journal</i> , 2023, 18, .	1.7	6
942	Inversion Theory Leveling as a New Methodological Approach to Antioxidant Thermodynamics: A Case Study on Phenol. <i>Antioxidants</i> , 2023, 12, 282.	2.2	0
943	Experimental FTIR-MI and Theoretical Studies of Isocyanic Acid Aggregates. <i>Molecules</i> , 2023, 28, 1430.	1.7	0
944	Theoretical study of the excitation of proflavine H-dimers in an aqueous solution: the effect of functionals and dispersion corrections. <i>Physical Chemistry Chemical Physics</i> , 2023, 25, 12259-12276.	1.3	4
945	Preferred intermolecular cation-anion interactions within the [EMIM][DCA] ionic liquid and its interaction with a water co-solvent molecule. <i>Journal of Molecular Liquids</i> , 2023, 381, 121804.	2.3	0

#	ARTICLE	IF	CITATIONS
946	Enhanced TSG stability through co-assembly with C3G: the mechanism behind processing <i>Polygonum multiflorum</i> Thunb with black beans via supramolecular analysis. <i>Food and Function</i> , 2023, 14, 4204-4212.	2.1	2
947	Potential Energy Surfaces Sampled in Cremer-Pople Coordinates and Represented by Common Force Field Functionals for Small Cyclic Molecules. <i>Journal of Physical Chemistry A</i> , 2023, 127, 2646-2663.	1.1	0
948	H <sub>2</sub> O@HF@C70: Encapsulation Energetics and Thermodynamics. <i>Inorganics</i> , 2023, 11, 123.	1.2	0
949	Complexes of a model trimeric acylphloroglucinol with a Cu <sup>2+</sup> ion: a DFT study. <i>ChemistrySelect</i> , 2023, .	0.7	0
950	Supramolecular Gel-to-Gel Transition Induced by Nanoscale Structural Perturbation via the Rotary Motion of Feringa's Motor. <i>Small</i> , 2023, 19, .	5.2	3
951	Experimental and Theoretical Study on Crown Ether-Appended-Fe(III) Porphyrin Complexes and Catalytic Oxidation Cyclohexene with O <sub>2</sub> . <i>Molecules</i> , 2023, 28, 3452.	1.7	0
954	Electron-density-based analysis and electron density functional theory (DFT) methods. , 2023, , 177-197.		0
956	Benchmarking Modern Density Functionals for Broad Applications in Chemistry. , 2024, , 78-93.		0
962	Review of Approximations for the Exchange-Correlation Energy in Density-Functional Theory. , 2023, , 1-90.		3
970	Non-empirical quadratic-integrand double-hybrid (QIDH) functionals. <i>Annual Reports in Computational Chemistry</i> , 2023, , 87-119.	0.9	0