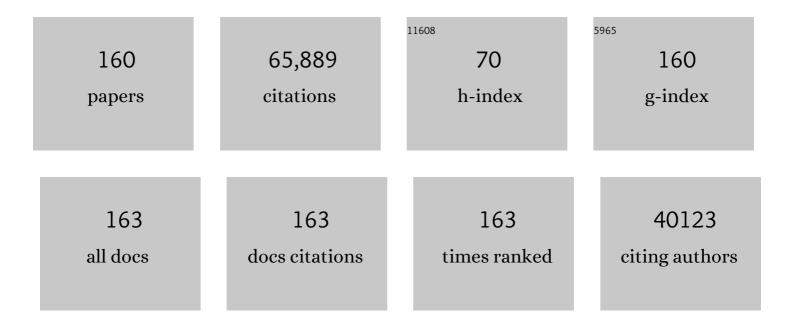
List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Metalâ€Organic Frameworks Nanocomposites with Different Dimensionalities for Energy Conversion and Storage. Advanced Energy Materials, 2022, 12, 2100346.	10.2	86
2	Density Functional Theory for Electrocatalysis. Energy and Environmental Materials, 2022, 5, 157-185.	7.3	95
3	Facilitating the acidic oxygen reduction of Fe–N–C catalysts by fluorine-doping. Materials Horizons, 2022, 9, 417-424.	6.4	39
4	A facile surface alloy-engineering route to enable robust lithium metal anodes. Physical Chemistry Chemical Physics, 2022, 24, 4751-4758.	1.3	8
5	Novel Two-Dimensional Metal-Based π-d Conjugated Nanosheets as Photocatalyst for Nitrogen Reduction Reaction: The First-Principle Investigation. ACS Applied Materials & Interfaces, 2022, 14, 5384-5394.	4.0	10
6	Core–shell Cu@Cu ₂ 0 nanoparticles embedded in 3D honeycomb-like N-doped graphitic carbon for photocatalytic CO ₂ reduction. Journal of Materials Chemistry A, 2022, 10, 4758-4769.	5.2	18
7	Tunable <scp>Ruâ€Ru₂P</scp> heterostructures with charge redistribution for efficient <scp>pHâ€universal</scp> hydrogen evolution. InformaÄnÃ-Materiály, 2022, 4, .	8.5	53
8	Interfacial gliding-driven lattice oxygen release in layered cathodes. Cell Reports Physical Science, 2022, 3, 100695.	2.8	5
9	Coordinatively Deficient Single-atom Fe-N-C Electrocatalyst with Optimized Electronic Structure for High-performance Lithium-sulfur Batteries. Energy Storage Materials, 2022, 46, 269-277.	9.5	95
10	Accurate redox potentials for solvents in <scp>Liâ€metal</scp> batteries and assessment of density functionals. International Journal of Quantum Chemistry, 2022, 122, .	1.0	6
11	The controlled in-situ growth of silver-halloysite nanostructure via interaction bonds to reinforce a novel polybenzoxazine composite resin and improve its antifouling and anticorrosion properties. Composites Science and Technology, 2022, 221, 109312.	3.8	6
12	Coordination environments tune the activity of oxygen catalysis on single atom catalysts: A computational study. Nano Research, 2022, 15, 3073-3081.	5.8	58
13	Theoretical insights into dual-atom catalysts for the oxygen reduction reaction: the crucial role of orbital polarization. Journal of Materials Chemistry A, 2022, 10, 9150-9160.	5.2	25
14	Electronic Regulation of ZnCo Dualâ€Atomic Active Sites Entrapped in 1D@2D Hierarchical Nâ€Doped Carbon for Efficient Synergistic Catalysis of Oxygen Reduction in Zn–Air Battery. Small, 2022, 18, e2107141.	5.2	36
15	Trimetallic Sulfide Hollow Superstructures with Engineered dâ€Band Center for Oxygen Reduction to Hydrogen Peroxide in Alkaline Solution. Advanced Science, 2022, 9, e2104768.	5.6	26
16	Trade-off effect of 3d transition metal doped boron nitride on anchoring polysulfides towards application in lithium-sulfur battery. Journal of Colloid and Interface Science, 2022, 616, 886-894.	5.0	4
17	Accelerating conversion of LiPSs on strain-induced MXene for high-performance Li-S battery. Chemical Engineering Journal, 2022, 439, 135679.	6.6	9
18	Stereoconvergent and stepwise 1,3-dipolar cycloadditions of nitrile oxides and nitrile imines. Chinese Chemical Letters, 2022, 33, 3012-3016.	4.8	8

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19	Establishing a theoretical insight for penta-coordinated iron-nitrogen-carbon catalysts toward oxygen reaction. Nano Research, 2022, 15, 6067-6075.	5.8	28
20	Low-coordinated cobalt arrays for efficient hydrazine electrooxidation. Energy and Environmental Science, 2022, 15, 3246-3256.	15.6	36
21	Bioinspired mechanically interlocking holey graphene@SiO ₂ anode. , 2022, 1, 517-525.		42
22	High voltage and robust lithium metal battery enabled by highly-fluorinated interphases. Energy Storage Materials, 2022, 51, 317-326.	9.5	22
23	Nanoâ€Ferric Oxide Embedded in Graphene Oxide: Highâ€performance Electrocatalyst for Nitrogen Reduction at Ambient Condition. Energy and Environmental Materials, 2021, 4, 88-94.	7.3	44
24	Structural properties and electrochemical performance of different polymorphs of Nb2O5 in magnesium-based batteries. Journal of Energy Chemistry, 2021, 58, 586-592.	7.1	13
25	Computational Design of Single Mo Atom Anchored Defective Boron Phosphide Monolayer as a Highâ€performance Electrocatalyst for the Nitrogen Reduction Reaction. Energy and Environmental Materials, 2021, 4, 255-262.	7.3	35
26	Novel graphitic carbon nitride g-C ₉ N ₁₀ as a promising platform to design efficient photocatalysts for dinitrogen reduction to ammonia: the first-principles investigation. Journal of Materials Chemistry A, 2021, 9, 20615-20625.	5.2	21
27	Significantly enhancing the dielectric constant and breakdown strength of linear dielectric polymers by utilizing ultralow loadings of nanofillers. Journal of Materials Chemistry A, 2021, 9, 23028-23036.	5.2	54
28	Zn–Co Zeolitic Imidazolate Framework Nanoparticles Intercalated in Graphene Nanosheets for Room-Temperature NO ₂ Sensing. ACS Applied Nano Materials, 2021, 4, 3998-4006.	2.4	13
29	High Yield Electrosynthesis of Hydrogen Peroxide from Water Using Electrospun CaSnO ₃ @Carbon Fiber Membrane Catalysts with Abundant Oxygen Vacancy. Advanced Functional Materials, 2021, 31, 2100099.	7.8	52
30	Atomistic Modeling of PEDOT:PSS Complexes I: DFT Benchmarking. Macromolecules, 2021, 54, 3634-3646.	2.2	14
31	Interface cation migration kinetics induced oxygen release heterogeneity in layered lithium cathodes. Energy Storage Materials, 2021, 36, 115-122.	9.5	23
32	Quicker and More Zn ²⁺ Storage Predominantly from the Interface. Advanced Materials, 2021, 33, e2100359.	11.1	111
33	Atomic-Level Modulation of the Interface Chemistry of Platinum–Nickel Oxide toward Enhanced Hydrogen Electrocatalysis Kinetics. Nano Letters, 2021, 21, 4845-4852.	4.5	31
34	Atomistic Modeling of PEDOT:PSS Complexes II: Force Field Parameterization. Macromolecules, 2021, 54, 5354-5365.	2.2	9
35	Revealing the Multiâ€Electron Reaction Mechanism of Na ₃ V ₂ O ₂ (PO ₄) ₂ F Towards Improved Lithium Storage. ChemSusChem, 2021, 14, 2984-2991.	3.6	6
36	Diastereodivergent 1,3â€Dipolar Cycloaddition of αâ€Fluoroâ€Î±,βâ€Unsaturated Arylketones and Azomethine Ylides: Experimental and Theoretical DFT Studies. European Journal of Organic Chemistry, 2021, 2021, 5530-5535.	1.2	5

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37	Significant Improvements in Dielectric Constant and Energy Density of Ferroelectric Polymer Nanocomposites Enabled by Ultralow Contents of Nanofillers. Advanced Materials, 2021, 33, e2102392.	11.1	102
38	Computational investigation of 2D 3d/4d hexagonal transition metal borides for metal-ion batteries. Electrochimica Acta, 2021, 384, 138404.	2.6	16
39	Rational design of a cobalt sulfide nanoparticle-embedded flexible carbon nanofiber membrane electrocatalyst for advanced lithium–sulfur batteries. Nanotechnology, 2021, 32, 455703.	1.3	3
40	Exploring the anchoring effect and catalytic mechanism of 3d transition metal phthalocyanine for S8/LiPSs: A density functional theory study. Applied Surface Science, 2021, 558, 149928.	3.1	17
41	â€~Be water' strategy of liquid lithium sulfide enables 0.2ÂV potential barrier for high-performance lithium–sulfur batteries. Materials Today Energy, 2021, 21, 100793.	2.5	8
42	Suppressing Polysulfide Shuttling in Lithium–Sulfur Batteries via a Multifunctional Conductive Binder. Small Methods, 2021, 5, e2100839.	4.6	14
43	Gradient sulfur fixing separator with catalytic ability for stable lithium sulfur battery. Chemical Engineering Journal, 2021, 422, 130107.	6.6	36
44	Gradient SEI layer induced by liquid alloy electrolyte additive for high rate lithium metal battery. Nano Energy, 2021, 88, 106237.	8.2	48
45	Highly active Fe centered FeM-N-doped carbon (MÂ=ÂCo/Ni/Mn): A general strategy for efficient oxygen conversion in Zn–air battery. Chemical Engineering Journal, 2021, 424, 130559.	6.6	55
46	Development of a curcumin-based antifouling and anticorrosion sustainable polybenzoxazine resin composite coating. Composites Part B: Engineering, 2021, 225, 109263.	5.9	51
47	Virtual screening of two-dimensional selenides and transition metal doped SnSe for lithium-sulfur batteries: A first-principles study. Applied Surface Science, 2021, 570, 151213.	3.1	36
48	Three-dimensional porous N-doped graphitic carbon framework with embedded CoO for photocatalytic CO2 reduction. Applied Catalysis B: Environmental, 2021, 298, 120546.	10.8	42
49	Strain Engineering of a MXene/CNT Hierarchical Porous Hollow Microsphere Electrocatalyst for a Highâ€Efficiency Lithium Polysulfide Conversion Process. Angewandte Chemie - International Edition, 2021, 60, 2371-2378.	7.2	176
50	Combined enhanced redox kinetics and physiochemical confinement in three-dimensionally ordered macro/mesoporous TiN for highly stable lithium-sulfur batteries. Nanotechnology, 2021, , .	1.3	1
51	Lowâ€Bandgap Seâ€Deficient Antimony Selenide as a Multifunctional Polysulfide Barrier toward Highâ€Performance Lithium–Sulfur Batteries. Advanced Materials, 2020, 32, e1904876.	11.1	206
52	Interface enhanced well-dispersed Co9S8 nanocrystals as an efficient polysulfide host in lithium–sulfur batteries. Journal of Energy Chemistry, 2020, 48, 109-115.	7.1	59
53	Transition metals doped borophene-graphene heterostructure for robust polysulfide anchoring: A first principle study. Applied Surface Science, 2020, 534, 147575.	3.1	18
54	"Soft on rigid―nanohybrid as the self-supporting multifunctional cathode electrocatalyst for high-performance lithium-polysulfide batteries. Nano Energy, 2020, 78, 105293.	8.2	36

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55	Multilayer stabilization for fabricating high-loading single-atom catalysts. Nature Communications, 2020, 11, 5892.	5.8	195
56	Ru-doped 3D flower-like bimetallic phosphide with a climbing effect on overall water splitting. Applied Catalysis B: Environmental, 2020, 279, 119396.	10.8	251
57	Oxygen defects boost polysulfides immobilization and catalytic conversion: First-principles computational characterization and experimental design. Nano Research, 2020, 13, 2299-2307.	5.8	36
58	NWChem: Past, present, and future. Journal of Chemical Physics, 2020, 152, 184102.	1.2	425
59	A three-dimensional nitrogen-doped graphene framework decorated with an atomic layer deposited ultrathin V ₂ O ₅ layer for lithium sulfur batteries with high sulfur loading. Journal of Materials Chemistry A, 2020, 8, 12106-12113.	5.2	28
60	Polymer dielectrics exhibiting an anomalously improved dielectric constant simultaneously achieved high energy density and efficiency enabled by CdSe/Cd _{1â^'x} Zn _x S quantum dots. Journal of Materials Chemistry A, 2020, 8, 13659-13670.	5.2	25
61	Multiâ€coefficients correlation methods. Wiley Interdisciplinary Reviews: Computational Molecular Science, 2020, 10, e1474.	6.2	4
62	Allâ€Purpose Electrode Design of Flexible Conductive Scaffold toward Highâ€Performance Li–S Batteries. Advanced Functional Materials, 2020, 30, 2000613.	7.8	90
63	Three-Dimensional Porous Nitrogen-Doped Carbon Nanosheet with Embedded Ni _{<i>x</i>} Co _{3–<i>x</i>} S ₄ Nanocrystals for Advanced Lithium–Sulfur Batteries. ACS Applied Materials & Interfaces, 2020, 12, 9181-9189.	4.0	36
64	Multistep Reaction Pathway for CO 2 Reduction on Hydride apped Si Nanosheets. ChemCatChem, 2020, 12, 722-725.	1.8	1
65	A robust electrospun separator modified with in situ grown metal-organic frameworks for lithium-sulfur batteries. Chemical Engineering Journal, 2020, 395, 124979.	6.6	85
66	Facile formation of tetragonal-Nb2O5 microspheres for high-rate and stable lithium storage with high areal capacity. Science Bulletin, 2020, 65, 1154-1162.	4.3	64
67	High-Voltage Cycling Induced Thermal Vulnerability in LiCoO ₂ Cathode: Cation Loss and Oxygen Release Driven by Oxygen Vacancy Migration. ACS Nano, 2020, 14, 6181-6190.	7.3	144
68	Accurate Binding Energies for Lithium Polysulfides and Assessment of Density Functionals for Lithium–Sulfur Battery Research. Journal of Physical Chemistry C, 2019, 123, 20737-20747.	1.5	34
69	Diastereodivergent Asymmetric 1,3â€Ðipolar Cycloaddition of Azomethine Ylides and βâ€Fluoroalkyl Vinylsulfones: Low Copper(II) Catalyst Loading and Theoretical Studies. Angewandte Chemie, 2019, 131, 16790-16796.	1.6	10
70	Diastereodivergent Asymmetric 1,3â€Ðipolar Cycloaddition of Azomethine Ylides and βâ€Fluoroalkyl Vinylsulfones: Low Copper(II) Catalyst Loading and Theoretical Studies. Angewandte Chemie - International Edition, 2019, 58, 16637-16643.	7.2	43
71	Uniform zeolitic imidazolate framework coating via in situ recoordination for efficient polysulfide trapping. Energy Storage Materials, 2019, 23, 55-61.	9.5	33
72	Construction of Oxygen-Deficient La(OH) ₃ Nanorods Wrapped by Reduced Graphene Oxide for Polysulfide Trapping toward High-Performance Lithium/Sulfur Batteries. ACS Applied Materials & Interfaces, 2019, 11, 23271-23279.	4.0	71

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73	Identification of Phase Control of Carbonâ€Confined Nb ₂ O ₅ Nanoparticles toward Highâ€Performance Lithium Storage. Advanced Energy Materials, 2019, 9, 1802695.	10.2	161
74	Density Functional Theory for Battery Materials. Energy and Environmental Materials, 2019, 2, 264-279.	7.3	186
75	Revealing the atomistic origin of the disorder-enhanced Na-storage performance in NaFePO4 battery cathode. Nano Energy, 2019, 57, 608-615.	8.2	67
76	Extrapolation of high-order correlation energies: the WMS model. Physical Chemistry Chemical Physics, 2018, 20, 27375-27384.	1.3	34
77	A 3D Nitrogenâ€Doped Graphene/TiN Nanowires Composite as a Strong Polysulfide Anchor for Lithium–Sulfur Batteries with Enhanced Rate Performance and High Areal Capacity. Advanced Materials, 2018, 30, e1804089.	11.1	251
78	Lithiophilic-lithiophobic gradient interfacial layer for a highly stable lithium metal anode. Nature Communications, 2018, 9, 3729.	5.8	331
79	Stereospecific Synthesis of Fluorinated Pyrazolidinones and Isoxazolidines via a Catalystâ€Free 1,3â€Dipolar Cycloaddition of βâ€Fluoroalkylated α,βâ€Unsaturated 2â€Pyridylsulfones. Asian Journal of Orgar Chemistry, 2018, 7, 1830-1834.	iic 1.3	10
80	Twinborn TiO ₂ –TiN heterostructures enabling smooth trapping–diffusion–conversion of polysulfides towards ultralong life lithium–sulfur batteries. Energy and Environmental Science, 2017, 10, 1694-1703.	15.6	884
81	Mechanism and kinetic properties for the gas-phase ozonolysis of β-ionone. RSC Advances, 2016, 6, 114256-114263.	1.7	1
82	The OH-initiated chemical transformation of 1,2,4,6,8,10,11-heptachloroundecane in the atmosphere. RSC Advances, 2015, 5, 37988-37994.	1.7	13
83	Kinetics and mechanism for OH-initiated gas-phase chemistry of α-terpineol. RSC Advances, 2015, 5, 95096-95103.	1.7	5
84	Chemical Conversion Pathways and Kinetic Modeling for the OH-Initiated Reaction of Triclosan in Gas-Phase. International Journal of Molecular Sciences, 2015, 16, 8128-8141.	1.8	5
85	Advances in molecular quantum chemistry contained in the Q-Chem 4 program package. Molecular Physics, 2015, 113, 184-215.	0.8	2,561
86	The nature of the lâ<ī interactions and a comparative study with the nature of the Ï€â<Ĩ€ interactions. Computational and Theoretical Chemistry, 2014, 1030, 1-8.	1.1	10
87	Theoretical study on the reaction mechanism of vinyl acetate with OH radicals in the atmosphere. Canadian Journal of Chemistry, 2013, 91, 241-247.	0.6	9
88	Verdict: Time-Dependent Density Functional Theory "Not Guilty―of Large Errors for Cyanines. Journal of Chemical Theory and Computation, 2012, 8, 1255-1259.	2.3	122
89	Improved CO Adsorption Energies, Site Preferences, and Surface Formation Energies from a Meta-Generalized Gradient Approximation Exchange–Correlation Functional, M06-L. Journal of Physical Chemistry Letters, 2012, 3, 2975-2979.	2.1	63
90	Benchmark Database for Ylidic Bond Dissociation Energies and Its Use for Assessments of Electronic Structure Methods. Journal of Chemical Theory and Computation, 2012, 8, 2824-2834.	2.3	62

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91	Adequate representation of charge polarization effects leads to a successful treatment of the CF4 + SiCl4 → CCl4 + SiF4 reaction by density functional theory. Chemical Communications, 2011, 47, 2357-2359.	2.2	4
92	Carbene Rotamer Switching Explains the Reverse Trans Effect in Forming the Grubbs Second-Generation Olefin Metathesis Catalyst. Organometallics, 2011, 30, 4196-4200.	1.1	59
93	Validation of electronic structure methods for isomerization reactions of large organic molecules. Physical Chemistry Chemical Physics, 2011, 13, 13683.	1.3	78
94	Generalized Gradient Approximation That Recovers the Second-Order Density-Gradient Expansion with Optimized Across-the-Board Performance. Journal of Physical Chemistry Letters, 2011, 2, 1991-1997.	2.1	171
95	Adsorption of Myrj 45 on copper phthalocyanine pigment nanoparticles and effect on their dispersion stability in aqueous solution. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2011, 390, 74-85.	2.3	9
96	Density Functional Theory for Reaction Energies: Test of Meta and Hybrid Meta Functionals, Range-Separated Functionals, and Other High-Performance Functionals. Journal of Chemical Theory and Computation, 2011, 7, 669-676.	2.3	190
97	Applications and validations of the Minnesota density functionals. Chemical Physics Letters, 2011, 502, 1-13.	1.2	662
98	Effect of Triton X-100 on the stability of aqueous dispersions of copper phthalocyanine pigment nanoparticles. Journal of Colloid and Interface Science, 2011, 362, 33-41.	5.0	40
99	Theoretical study on mechanism for O3-initiated atmospheric oxidation reaction of Î ² -caryophyllene. Computational and Theoretical Chemistry, 2010, 947, 68-75.	1.5	16
100	Binding energy of d10 transition metals to alkenes by wave function theory and density functional theoryâ~†. Journal of Molecular Catalysis A, 2010, 324, 80-88.	4.8	50
101	2. The Minnesota Density Functionals and their Applications to Problems in Mineralogy and Geochemistry. , 2010, , 19-38.		4
102	Surface Molecular Vibrations as a Tool for Analyzing Surface Impurities in Copper Phthalocyanine Organic Nanocrystals. Materials Research Society Symposia Proceedings, 2010, 1270, 1.	0.1	2
103	Tests of the RPBE, revPBE, τ-HCTHhyb, ωB97X-D, and MOHLYP density functional approximations and 29 others against representative databases for diverse bond energies and barrier heights in catalysis. Journal of Chemical Physics, 2010, 132, 164117.	1.2	206
104	Computational Thermochemistry: Scale Factor Databases and Scale Factors for Vibrational Frequencies Obtained from Electronic Model Chemistries. Journal of Chemical Theory and Computation, 2010, 6, 2872-2887.	2.3	1,183
105	Colloidal Dispersion Stability of CuPc Aqueous Dispersions and Comparisons to Predictions of the DLVO Theory for Spheres and Parallel Face-to-Face Cubes. Langmuir, 2010, 26, 6995-7006.	1.6	23
106	The Minnesota Density Functionals and their Applications to Problems in Mineralogy and Geochemistry. Reviews in Mineralogy and Geochemistry, 2010, 71, 19-37.	2.2	35
107	Computation of Nonretarded London Dispersion Coefficients and Hamaker Constants of Copper Phthalocyanine. Journal of Chemical Theory and Computation, 2010, 6, 491-498.	2.3	8
108	On the Performances of the M06 Family of Density Functionals for Electronic Excitation Energies. Journal of Chemical Theory and Computation, 2010, 6, 2071-2085.	2.3	383

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109	Density Functional Calculations of E2 and S _N 2 Reactions: Effects of the Choice of Density Functional, Basis Set, and Self-Consistent Iterations. Journal of Chemical Theory and Computation, 2010, 6, 1104-1108.	2.3	45
110	Benchmark Energetic Data in a Model System for Grubbs II Metathesis Catalysis and Their Use for the Development, Assessment, and Validation of Electronic Structure Methods. Journal of Chemical Theory and Computation, 2009, 5, 324-333.	2.3	313
111	Benchmark Data for Noncovalent Interactions in HCOOH··Â-Benzene Complexes and Their Use for Validation of Density Functionals. Journal of Chemical Theory and Computation, 2009, 5, 2726-2733.	2.3	30
112	Thermochemical Kinetics for Multireference Systems: Addition Reactions of Ozone. Journal of Physical Chemistry A, 2009, 113, 5786-5799.	1.1	114
113	The DBH24/08 Database and Its Use to Assess Electronic Structure Model Chemistries for Chemical Reaction Barrier Heights. Journal of Chemical Theory and Computation, 2009, 5, 808-821.	2.3	462
114	Calculation of semiconductor band gaps with the M06-L density functional. Journal of Chemical Physics, 2009, 130, 074103.	1.2	75
115	The M06 suite of density functionals for main group thermochemistry, thermochemical kinetics, noncovalent interactions, excited states, and transition elements: two new functionals and systematic testing of four M06-class functionals and 12 other functionals. Theoretical Chemistry Accounts, 2008, 120, 215-241.	0.5	23,928
116	Benchmarking approximate density functional theory for s/d excitation energies in 3d transition metal cations. Journal of Computational Chemistry, 2008, 29, 185-189.	1.5	61
117	Density Functionals with Broad Applicability in Chemistry. Accounts of Chemical Research, 2008, 41, 157-167.	7.6	6,193
118	How Well Can New-Generation Density Functionals Describe the Energetics of Bond-Dissociation Reactions Producing Radicals?. Journal of Physical Chemistry A, 2008, 112, 1095-1099.	1.1	359
119	Computational characterization and modeling of buckyball tweezers: density functional study of concave–convex Ï€â<Ï€ interactions. Physical Chemistry Chemical Physics, 2008, 10, 2813.	1.3	218
120	A Prototype for Graphene Material Simulation:  Structures and Interaction Potentials of Coronene Dimers. Journal of Physical Chemistry C, 2008, 112, 4061-4067.	1.5	152
121	Exploring the Limit of Accuracy of the Global Hybrid Meta Density Functional for Main-Group Thermochemistry, Kinetics, and Noncovalent Interactions. Journal of Chemical Theory and Computation, 2008, 4, 1849-1868.	2.3	956
122	Construction of a generalized gradient approximation by restoring the density-gradient expansion and enforcing a tight Lieb–Oxford bound. Journal of Chemical Physics, 2008, 128, 184109.	1.2	260
123	Benchmark Data for Interactions in Zeolite Model Complexes and Their Use for Assessment and Validation of Electronic Structure Methods. Journal of Physical Chemistry C, 2008, 112, 6860-6868.	1.5	157
124	Improved Description of Nuclear Magnetic Resonance Chemical Shielding Constants Using the M06-L Meta-Generalized-Gradient-Approximation Density Functional. Journal of Physical Chemistry A, 2008, 112, 6794-6799.	1.1	92
125	Comment on "More accurate generalized gradient approximation for solids― Physical Review B, 2008, 78, .	1.1	24
126	How Well Can New-Generation Density Functionals Describe Protonated Epoxides Where Older Functionals Fail?. Journal of Organic Chemistry, 2007, 72, 295-298.	1.7	41

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127	Multicoefficient Gaussian-3 Calculation of the Rate Constant for the OH + CH4Reaction and Its12C/13C Kinetic Isotope Effect with Emphasis on the Effects of Coordinate System and Torsional Treatment. Journal of Physical Chemistry A, 2007, 111, 11706-11717.	1.1	30
128	Attractive Noncovalent Interactions in the Mechanism of Grubbs Second-Generation Ru Catalysts for Olefin Metathesis. Organic Letters, 2007, 9, 1967-1970.	2.4	163
129	Representative Benchmark Suites for Barrier Heights of Diverse Reaction Types and Assessment of Electronic Structure Methods for Thermochemical Kinetics. Journal of Chemical Theory and Computation, 2007, 3, 569-582.	2.3	207
130	Thermochemical Kinetics of Hydrogen-Atom Transfers between Methyl, Methane, Ethynyl, Ethyne, and Hydrogen. Journal of Physical Chemistry A, 2007, 111, 4632-4642.	1.1	59
131	Size-Selective Supramolecular Chemistry in a Hydrocarbon Nanoring. Journal of the American Chemical Society, 2007, 129, 8440-8442.	6.6	89
132	Density Functionals for Noncovalent Interaction Energies of Biological Importance. Journal of Chemical Theory and Computation, 2007, 3, 289-300.	2.3	557
133	Comparative assessment of density functional methods for 3d transition-metal chemistry. Journal of Chemical Physics, 2006, 124, 224105.	1.2	180
134	Design of Density Functionals by Combining the Method of Constraint Satisfaction with Parametrization for Thermochemistry, Thermochemical Kinetics, and Noncovalent Interactions. Journal of Chemical Theory and Computation, 2006, 2, 364-382.	2.3	3,329
135	A Density Functional That Accounts for Medium-Range Correlation Energies in Organic Chemistry. Organic Letters, 2006, 8, 5753-5755.	2.4	193
136	Comparative DFT Study of van der Waals Complexes:Â Rare-Gas Dimers, Alkaline-Earth Dimers, Zinc Dimer, and Zinc-Rare-Gas Dimers. Journal of Physical Chemistry A, 2006, 110, 5121-5129.	1.1	706
137	Assessment of Density Functionals for π Systems: Energy Differences between Cumulenes and Poly-ynes; Proton Affinities, Bond Length Alternation, and Torsional Potentials of Conjugated Polyenes; and Proton Affinities of Conjugated Shiff Bases. Journal of Physical Chemistry A, 2006, 110, 10478-10486.	1.1	196
138	Multiconfiguration Molecular Mechanics Based on Combined Quantum Mechanical and Molecular Mechanical Calculations. Journal of Chemical Theory and Computation, 2006, 2, 1237-1254.	2.3	38
139	Assessment of Model Chemistries for Noncovalent Interactions. Journal of Chemical Theory and Computation, 2006, 2, 1009-1018.	2.3	214
140	Density Functional for Spectroscopy:Â No Long-Range Self-Interaction Error, Good Performance for Rydberg and Charge-Transfer States, and Better Performance on Average than B3LYP for Ground States. Journal of Physical Chemistry A, 2006, 110, 13126-13130.	1.1	1,140
141	A new local density functional for main-group thermochemistry, transition metal bonding, thermochemical kinetics, and noncovalent interactions. Journal of Chemical Physics, 2006, 125, 194101.	1.2	4,175
142	Combined valence bond-molecular mechanics potential-energy surface and direct dynamics study of rate constants and kinetic isotope effects for the H+C2H6 reaction. Journal of Chemical Physics, 2006, 124, 044315.	1.2	47
143	Benchmark Databases for Nonbonded Interactions and Their Use To Test Density Functional Theory. Journal of Chemical Theory and Computation, 2005, 1, 415-432.	2.3	832
144	The 6-31B(d) Basis Set and the BMC-QCISD and BMC-CCSD Multicoefficient Correlation Methods. Journal of Physical Chemistry A, 2005, 109, 1643-1649.	1.1	138

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145	Multi-coefficient extrapolated density functional theory for thermochemistry and thermochemical kinetics. Physical Chemistry Chemical Physics, 2005, 7, 43.	1.3	393
146	How Well Can Density Functional Methods Describe Hydrogen Bonds to π Acceptors?. Journal of Physical Chemistry B, 2005, 109, 19046-19051.	1.2	169
147	Databases for Transition Element Bonding:Â Metalâ^'Metal Bond Energies and Bond Lengths and Their Use To Test Hybrid, Hybrid Meta, and Meta Density Functionals and Generalized Gradient Approximations. Journal of Physical Chemistry A, 2005, 109, 4388-4403.	1.1	209
148	Design of Density Functionals That Are Broadly Accurate for Thermochemistry, Thermochemical Kinetics, and Nonbonded Interactions. Journal of Physical Chemistry A, 2005, 109, 5656-5667.	1.1	1,451
149	Temperature Dependence of Carbon-13 Kinetic Isotope Effects of Importance to Global Climate Change. Journal of the American Chemical Society, 2005, 127, 2830-2831.	6.6	21
150	Multicoefficient Extrapolated Density Functional Theory Studies of π···π Interactions: The Benzene Dimer. Journal of Physical Chemistry A, 2005, 109, 4209-4212.	1.1	99
151	Benchmark Database of Barrier Heights for Heavy Atom Transfer, Nucleophilic Substitution, Association, and Unimolecular Reactions and Its Use to Test Theoretical Methods. Journal of Physical Chemistry A, 2005, 109, 2012-2018.	1.1	736
152	How well can new-generation density functional methods describe stacking interactions in biological systems?. Physical Chemistry Chemical Physics, 2005, 7, 2701.	1.3	246
153	Exchange-correlation functional with broad accuracy for metallic and nonmetallic compounds, kinetics, and noncovalent interactions. Journal of Chemical Physics, 2005, 123, 161103.	1.2	979
154	Infinite-Basis Calculations of Binding Energies for the Hydrogen Bonded and Stacked Tetramers of Formic Acid and Formamide and Their Use for Validation of Hybrid DFT and ab Initio Methods. Journal of Physical Chemistry A, 2005, 109, 6624-6627.	1.1	89
155	Density Functionals for Inorganometallic and Organometallic Chemistry. Journal of Physical Chemistry A, 2005, 109, 11127-11143.	1.1	447
156	Tests of second-generation and third-generation density functionals for thermochemical kineticsElectronic supplementary information (ESI) available: Mean errors for pure and hybrid DFT methods. See http://www.rsc.org/suppdata/cp/b3/b316260e/. Physical Chemistry Chemical Physics, 2004, 6, 673.	1.3	242
157	Doubly Hybrid Meta DFT:  New Multi-Coefficient Correlation and Density Functional Methods for Thermochemistry and Thermochemical Kinetics. Journal of Physical Chemistry A, 2004, 108, 4786-4791.	1.1	297
158	Hybrid Meta Density Functional Theory Methods for Thermochemistry, Thermochemical Kinetics, and Noncovalent Interactions:  The MPW1B95 and MPWB1K Models and Comparative Assessments for Hydrogen Bonding and van der Waals Interactions. Journal of Physical Chemistry A, 2004, 108, 6908-6918.	1.1	1,497
159	Development and Assessment of a New Hybrid Density Functional Model for Thermochemical Kinetics. Journal of Physical Chemistry A, 2004, 108, 2715-2719.	1.1	639
160	Effectiveness of Diffuse Basis Functions for Calculating Relative Energies by Density Functional Theory. Journal of Physical Chemistry A, 2003, 107, 1384-1388.	1.1	688