

Xinhao Zhang

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

123 papers	4,025 citations	37 h-index	57 g-index
143 ext. papers	4,700 ext. citations	8.8 avg, IF	5.69 L-index

#	Paper	IF	Citations
123	Systematic investigation of the aza-Cope reaction for fluorescence imaging of formaldehyde and. <i>Chemical Science</i> , 2021 , 12, 13857-13869	9.4	7
122	Chemo- and Enantioselective Insertion of Furyl Carbene into the N-H Bond of 2-Pyridones. <i>Angewandte Chemie</i> , 2021 , 133, 17079-17083	3.6	1
121	Chemo- and Enantioselective Insertion of Furyl Carbene into the N-H Bond of 2-Pyridones. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 16942-16946	16.4	6
120	Degradation of atrazine (ATZ) by ammonia/chlorine synergistic oxidation process. <i>Chemical Engineering Journal</i> , 2021 , 415, 128841	14.7	5
119	Iron-catalysed asymmetric carboazidation of styrenes. <i>Nature Catalysis</i> , 2021 , 4, 28-35	36.5	25
118	A Combined Computational and Experimental Study of Rh-Catalyzed C-H Silylation with Silacyclobutanes: Insights Leading to a More Efficient Catalyst System. <i>Journal of the American Chemical Society</i> , 2021 , 143, 3571-3582	16.4	18
117	N-Heterocyclic Carbene-Catalyzed Four-Component Reaction: Chemoselective Cradical-Cradical Relay Coupling Involving the Homoenolate Intermediate. <i>ACS Catalysis</i> , 2021 , 11, 10123-10130	13.1	8
116	Precise Introduction of the -CHX (X = F, Cl, Br, I) Moiety to Target Molecules by a Radical Strategy: A Theoretical and Experimental Study. <i>Journal of the American Chemical Society</i> , 2021 , 143, 13195-13204	16.4	1
115	Construction of C-C Axial Chirality via Asymmetric Carbene Insertion into Arene C-H Bonds. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 25714-25718	16.4	4
114	An unusual formal migrative cycloaddition of aurone-derived azadienes: synthesis of benzofuran-fused nitrogen heterocycles. <i>Chemical Science</i> , 2021 , 12, 7953-7957	9.4	3
113	Copper(i)-catalyzed asymmetric intramolecular C-arylation with ureas as the additives: highly enantioselective formation of spirooxindoles. <i>Organic and Biomolecular Chemistry</i> , 2021 , 19, 7480-7484	3.9	
112	Copper(I)-catalyzed intramolecular asymmetric C-arylation of acyclic ester amides: enantioselective formation of chiral oxindoles. <i>Organic Chemistry Frontiers</i> , 2021 , 8, 4211-4216	5.2	1
111	Asymmetric radical carboesterification of dienes. <i>Nature Communications</i> , 2021 , 12, 6670	17.4	5
110	Hybrid Palladium Catalyst Assembled from Chiral Phosphoric Acid and Thioamide for Enantioselective $\text{E}(\text{sp}^3)\text{H}$ Arylation. <i>Angewandte Chemie</i> , 2020 , 132, 12874-12878	3.6	13
109	Diastereo- and Enantioselective Catalytic Radical Oxysulfonylation of Alkenes in β -Unsaturated Ketoximes. <i>Chem</i> , 2020 , 6, 1692-1706	16.2	29
108	Revealing the Iron-Catalyzed β -Methyl Scission of α -Butoxyl Radicals via the Mechanistic Studies of Carboazidation of Alkenes. <i>Molecules</i> , 2020 , 25,	4.8	9
107	Organocatalytic nitrogen transfer to unactivated olefins via transient oxaziridines. <i>Nature Catalysis</i> , 2020 , 3, 386-392	36.5	15

106	Hybrid Palladium Catalyst Assembled from Chiral Phosphoric Acid and Thioamide for Enantioselective $\text{C(sp}^3\text{)-H}$ Arylation. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 12774-12778	16.4	27
105	Synthesis of α -Phenolic Sulfilimines via an Intermolecular Sulfur Atom Transfer Cascade Reaction. <i>Organic Letters</i> , 2020 , 22, 3799-3803	6.2	6
104	Ligand-Controlled C-O Bond Coupling of Carboxylic Acids and Aryl Iodides: Experimental and Computational Insights. <i>Advanced Synthesis and Catalysis</i> , 2020 , 362, 126-132	5.6	2
103	Copper-Catalyzed Enantioselective Radical 1,4-Difunctionalization of 1,3-Enynes. <i>Journal of the American Chemical Society</i> , 2020 , 142, 18014-18021	16.4	40
102	Computational Study on the Fate of Oxidative Directing Groups in Ru(II), Rh(III), and Pd(II) Catalyzed C-H Functionalization. <i>Journal of Organic Chemistry</i> , 2020 , 85, 12594-12602	4.2	4
101	Generation of Halomethyl Radicals by Halogen Atom Abstraction and Their Addition Reactions with Alkenes. <i>Journal of the American Chemical Society</i> , 2019 , 141, 16643-16650	16.4	39
100	Innenrücktitelbild: Assembling a Hybrid Pd Catalyst from a Chiral Anionic Co(III) Complex and Ligand for Asymmetric $\text{C(sp}^3\text{)-H}$ Functionalization (Angew. Chem. 6/2019). <i>Angewandte Chemie</i> , 2019 , 131, 1863-1863	3.6	36
99	Rhodium-Catalyzed $\text{C}\equiv\text{N}$ Bond Formation through a Rebound Hydrolysis Mechanism and Application in β -Lactam Synthesis. <i>Organic Letters</i> , 2019 , 21, 4124-4127	6.2	16
98	Facile difluoromethylation of aliphatic alcohols with an S-(difluoro-methyl)sulfonium salt: reaction, scope and mechanistic study. <i>Chemical Communications</i> , 2019 , 55, 7446-7449	5.8	14
97	Copper(I)-Catalyzed Intramolecular Asymmetric Double C-Arylation for the Formation of Chiral Spirocyclic Bis-oxindoles. <i>Organic Letters</i> , 2019 , 21, 4505-4509	6.2	13
96	Designing new Togni reagents by computation. <i>Chemical Communications</i> , 2019 , 55, 5667-5670	5.8	7
95	Synthesis of Benzofurans and Benzoxazoles through a [3,3]-Sigmatropic Rearrangement: O^{NHAc} as a Multitasking Functional Group. <i>Organic Process Research and Development</i> , 2019 , 23, 1646-1653	3.9	11
94	Mechanistic understanding of catalysis by combining mass spectrometry and computation. <i>Chemical Communications</i> , 2019 , 55, 12749-12764	5.8	13
93	Innentitelbild: Access to N-Substituted 2-Pyridones by Catalytic Intermolecular Dearomatization and 1,4-Acyl Transfer (Angew. Chem. 7/2019). <i>Angewandte Chemie</i> , 2019 , 131, 1866-1866	3.6	36
92	Ru-Catalyzed Migratory Geminal Semihydrogenation of Internal Alkynes to Terminal Olefins. <i>Journal of the American Chemical Society</i> , 2019 , 141, 17441-17451	16.4	21
91	Radical Reactivity, Catalysis, and Reaction Mechanism of Arylcopper(II) Compounds: The Missing Link in Organocopper Chemistry. <i>Journal of the American Chemical Society</i> , 2019 , 141, 18341-18348	16.4	15
90	Rh(II)/Brønsted Acid Catalyzed General and Highly Diastereo- and Enantioselective Propargylation of in Situ Generated Oxonium Ylides and C-Alkynyl N-Boc N,O-Acetals: Synthesis of Polyfunctional Propargylamines. <i>Organic Letters</i> , 2019 , 21, 1292-1296	6.2	28
89	Assembling a Hybrid Pd Catalyst from a Chiral Anionic Co(III) Complex and Ligand for Asymmetric $\text{C(sp}^3\text{)-H}$ Functionalization. <i>Angewandte Chemie</i> , 2019 , 131, 1817-1821	3.6	20

88	Interaction of peptide backbones and transition metal ions: 1. an IM-MS and DFT study of the binding pattern, structure and fragmentation of Pd(II)/Ni(II)-Polyalanine complexes. <i>International Journal of Mass Spectrometry</i> , 2019 , 438, 87-96	1.9	5
87	Enantioselective Addition of Cyclic Ketones to Unactivated Alkenes Enabled by Amine/Pd(II) Cooperative Catalysis. <i>ACS Catalysis</i> , 2019 , 9, 791-797	13.1	48
86	Assembling a Hybrid Pd Catalyst from a Chiral Anionic Co Complex and Ligand for Asymmetric C(sp ³)-H Functionalization. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 1803-1807	16.4	52
85	Access to N-Substituted 2-Pyridones by Catalytic Intermolecular Dearomatization and 1,4-Acyl Transfer. <i>Angewandte Chemie</i> , 2019 , 131, 2002-2006	3.6	7
84	Iron-catalyzed carboazidation of alkenes and alkynes. <i>Nature Communications</i> , 2019 , 10, 122	17.4	57
83	Copper-Catalyzed Radical 1,4-Difunctionalization of 1,3-Enynes with Alkyl Diacyl Peroxides and N-Fluorobenzenesulfonimide. <i>Journal of the American Chemical Society</i> , 2019 , 141, 548-559	16.4	92
82	Access to N-Substituted 2-Pyridones by Catalytic Intermolecular Dearomatization and 1,4-Acyl Transfer. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 1980-1984	16.4	29
81	The reaction of alkyl hydropersulfides (RSSH, R = CH and Bu) with HS in the gas phase and in aqueous solution. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 537-545	3.6	2
80	Mechanistic Study on Cu(II)-Catalyzed Oxidative Cross-Coupling Reaction between Arenes and Boronic Acids under Aerobic Conditions. <i>Journal of the American Chemical Society</i> , 2018 , 140, 5579-5587	16.4	37
79	Computational exploration of reactive fragment for mechanism-based inhibition of xanthine oxidase. <i>Journal of Organometallic Chemistry</i> , 2018 , 864, 58-67	2.3	4
78	Streamlined asymmetric β -difunctionalization of ynones. <i>Nature Communications</i> , 2018 , 9, 375	17.4	15
77	Rhodium-Catalyzed Regioselective N2-Alkylation of Benzotriazoles with Diazo Compounds/Enynones via a Nonclassical Pathway. <i>Angewandte Chemie</i> , 2018 , 130, 12669-12673	3.6	9
76	Rhodium-Catalyzed Regioselective N-Alkylation of Benzotriazoles with Diazo Compounds/Enynones via a Nonclassical Pathway. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 12489-12493	16.4	48
75	Directing Effects on the Copper-Catalyzed Site-Selective Arylation of Indoles. <i>Organic Letters</i> , 2018 , 20, 6502-6505	6.2	19
74	Enantioselective Synthesis of Chiral Oxygen-Containing Heterocycles Using Copper-Catalyzed Aryl C-O Coupling Reactions via Asymmetric Desymmetrization. <i>Journal of Organic Chemistry</i> , 2017 , 82, 1458-1463	4.2	11
73	A Combined DFT/IM-MS Study on the Reaction Mechanism of Cationic Ru(II)-Catalyzed Hydroboration of Alkynes. <i>ACS Catalysis</i> , 2017 , 7, 1361-1368	13.1	41
72	Diastereoselective Total Synthesis of (R)-Basiliolide B and (R)-epi-8-Basiliolide B. <i>Journal of Organic Chemistry</i> , 2017 , 82, 3463-3481	4.2	13
71	A bioinspired and biocompatible ortho-sulfiliminy phenol synthesis. <i>Nature Communications</i> , 2017 , 8, 15912	17.4	28

70	Density Functional Theory Study of the Reaction between d Tungsten Alkylidyne Complexes and HO: Addition versus Hydrolysis. <i>Inorganic Chemistry</i> , 2017 , 56, 7111-7119	5.1	8
69	Iron-Catalyzed Carboamination of Olefins: Synthesis of Amines and Disubstituted β -Amino Acids. <i>Journal of the American Chemical Society</i> , 2017 , 139, 13076-13082	16.4	101
68	β -Amino Butyric Acid (GABA) Synthesis Enabled by Copper-Catalyzed Carboamination of Alkenes. <i>Organic Letters</i> , 2017 , 19, 4718-4721	6.2	37
67	Iron(III)-Catalyzed Ortho-Preferred Radical Nucleophilic Alkylation of Electron-Deficient Arenes. <i>Organic Letters</i> , 2017 , 19, 6538-6541	6.2	18
66	A Twist of the Twist Mechanism, 2-Iodoxybenzoic Acid (IBX)-Mediated Oxidation of Alcohol Revisited: Theory and Experiment. <i>Organic Letters</i> , 2017 , 19, 6502-6505	6.2	29
65	Metal-Free [2+2+2] Cycloaddition of Ynamides and Nitriles: Mild and Regioselective Synthesis of Fully Substituted Pyridines. <i>Angewandte Chemie</i> , 2016 , 128, 9856-9860	3.6	23
64	Metal-Free [2+2+2] Cycloaddition of Ynamides and Nitriles: Mild and Regioselective Synthesis of Fully Substituted Pyridines. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 9704-8	16.4	80
63	New Mechanistic Insights on the Selectivity of Transition-Metal-Catalyzed Organic Reactions: The Role of Computational Chemistry. <i>Accounts of Chemical Research</i> , 2016 , 49, 1302-10	24.3	79
62	A diversity-oriented synthesis of bioactive benzanilides a regioselective C(sp)-H hydroxylation strategy. <i>Chemical Science</i> , 2016 , 7, 2229-2238	9.4	59
61	Why does Togni's reagent I exist in the high-energy hypervalent iodine form? Re-evaluation of beniodoxole based hypervalent iodine reagents. <i>Chemical Communications</i> , 2016 , 52, 5371-4	5.8	44
60	Ligand-Assisted Palladium(II)/(IV) Oxidation for sp ³ C-H Fluorination. <i>Advanced Synthesis and Catalysis</i> , 2016 , 358, 1946-1957	5.6	12
59	Ir-Catalyzed Regio- and Stereoselective Hydrosilylation of Internal Thioalkynes: A Combined Experimental and Computational Study. <i>Journal of Organic Chemistry</i> , 2016 , 81, 6157-64	4.2	30
58	Metal-Free Synthesis of 3-Arylquinolin-2-ones from Acrylic Amides via a Highly Regioselective 1,2-Aryl Migration: An Experimental and Computational Study. <i>Journal of Organic Chemistry</i> , 2016 , 81, 4058-65	4.2	28
57	Mechanistic Study on Pd/Mono-N-protected Amino Acid Catalyzed Vinyl-Vinyl Coupling Reactions: Reactivity and E/Z Selectivity. <i>Organic Letters</i> , 2016 , 18, 5240-5243	6.2	19
56	Front Cover Picture: Ligand-Assisted Palladium(II)/(IV) Oxidation for sp ³ C-H Fluorination (Adv. Synth. Catal. 12/2016). <i>Advanced Synthesis and Catalysis</i> , 2016 , 358, 1871-1871	5.6	
55	Computational organic chemistry: bridging theory and experiment in establishing the mechanisms of chemical reactions. <i>Journal of the American Chemical Society</i> , 2015 , 137, 1706-25	16.4	222
54	Highly Regio- and Stereoselective Hydrosilylation of Internal Thioalkynes under Mild Conditions. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 5632-5	16.4	54
53	A combined IM-MS/DFT study on [Pd(MPAA)]-catalyzed enantioselective C-H activation: relay of chirality through a rigid framework. <i>Chemistry - A European Journal</i> , 2015 , 21, 11180-8	4.8	84

52	Highly Regio- and Stereoselective Hydrosilylation of Internal Thioalkynes under Mild Conditions. <i>Angewandte Chemie</i> , 2015 , 127, 5724-5727	3.6	16
51	Pd-catalyzed asymmetric intramolecular aryl C-O bond formation with SDP(O) ligand: enantioselective synthesis of (2,3-dihydrobenzo[b][1,4]dioxin-2-yl)methanols. <i>Organic Letters</i> , 2015 , 17, 840-3	6.2	33
50	Palladium-catalyzed meta-selective C-H bond activation with a nitrile-containing template: computational study on mechanism and origins of selectivity. <i>Journal of the American Chemical Society</i> , 2014 , 136, 344-55	16.4	270
49	Enantioselective Formation of Cyano-Bearing All-Carbon Quaternary Stereocenters: Desymmetrization by Copper-Catalyzed N-Arylation. <i>Angewandte Chemie</i> , 2014 , 126, 9709-9713	3.6	10
48	Enantioselective formation of cyano-bearing all-carbon quaternary stereocenters: desymmetrization by copper-catalyzed N-arylation. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 9555-9	16.4	35
47	Palladium-catalyzed benzo[d]isoxazole synthesis by C≡C activation/[4 + 1] annulation. <i>Chemical Science</i> , 2014 , 5, 1574-1578	9.4	54
46	Mechanism, reactivity, and selectivity in palladium-catalyzed redox-relay Heck arylations of alkenyl alcohols. <i>Journal of the American Chemical Society</i> , 2014 , 136, 1960-7	16.4	161
45	Synthesis of indolo[2,1-a]isoquinolines via a triazene-directed C-H annulation cascade. <i>Journal of Organic Chemistry</i> , 2014 , 79, 11863-72	4.2	69
44	Ligand-controlled reactivity, selectivity, and mechanism of cationic ruthenium-catalyzed hydrosilylations of alkynes, ketones, and nitriles: a theoretical study. <i>Journal of Organic Chemistry</i> , 2014 , 79, 8856-64	4.2	40
43	Role of N-acyl amino acid ligands in Pd(II)-catalyzed remote C-H activation of tethered arenes. <i>Journal of the American Chemical Society</i> , 2014 , 136, 894-7	16.4	233
42	Formal syntheses of (E)-platensimycin and (E)-platencin via a dual-mode Lewis acid induced cascade cyclization approach. <i>Journal of Organic Chemistry</i> , 2013 , 78, 7912-29	4.2	31
41	Computational Studies on the Mechanism of the Copper-Catalyzed sp ² -C≡H Cross-Dehydrogenative Coupling Reaction. <i>ChemPlusChem</i> , 2013 , 78, 943-951	2.8	37
40	Ligand-controlled remarkable regio- and stereodivergence in intermolecular hydrosilylation of internal alkynes: experimental and theoretical studies. <i>Journal of the American Chemical Society</i> , 2013 , 135, 13835-42	16.4	117
39	Reactions of a tungsten alkylidyne complex with mono-dentate phosphines: Thermodynamic and theoretical studies. <i>Polyhedron</i> , 2013 , 58, 30-38	2.7	12
38	Structure and chemistry of the heteronuclear oxo-cluster [VPO ₄] ₃ : a model system for the gas-phase oxidation of small hydrocarbons. <i>Journal of the American Chemical Society</i> , 2013 , 135, 3711-21	16.4	64
37	Gas-phase reactions of cationic vanadium-phosphorus oxide clusters with C ₂ H _x (x=4, 6): a DFT-based analysis of reactivity patterns. <i>Chemistry - A European Journal</i> , 2013 , 19, 3017-28	4.8	23
36	Total synthesis of incarvilleatone and incarviditone: insight into their biosynthetic pathways and structure determination. <i>Organic Letters</i> , 2012 , 14, 4878-81	6.2	41
35	Conjugate addition vs Heck reaction: a theoretical study on competitive coupling catalyzed by isoelectronic metal (Pd(II) and Rh(I)). <i>Journal of Organic Chemistry</i> , 2012 , 77, 7487-96	4.2	46

34	Silicon-containing formal 4 π -electron four-membered ring systems: antiaromatic, aromatic, or nonaromatic?. <i>Chemistry - A European Journal</i> , 2012 , 18, 7516-24	4.8	47
33	Bonding in cationic MOH + n (M = K-La, Hf-Rn; n = 0-2): DFT performances and periodic trends. <i>Theoretical Chemistry Accounts</i> , 2011 , 129, 389-399	1.9	40
32	Thermal activation of N-H bonds by transition-metal oxide cations: does a hierarchy exist in the first row?. <i>Chemistry - A European Journal</i> , 2011 , 17, 3886-92	4.8	14
31	Thermal activation of methane and ethene by bare MO ⁺ (M=Ge, Sn, and Pb): a combined theoretical/experimental study. <i>Chemistry - A European Journal</i> , 2011 , 17, 9619-25	4.8	44
30	Theoretical studies on the mechanism and stereoselectivity of Rh(Phebox)-catalyzed asymmetric reductive aldol reaction. <i>Organic and Biomolecular Chemistry</i> , 2011 , 9, 5845-55	3.9	25
29	Isomerization of an N-Heterocyclic Germylene to an Azagermabenzen-1-ylidene and Its Coupling to a Unique Bis(germylene) π . <i>Organometallics</i> , 2010 , 29, 5353-5357	3.8	18
28	Thermal Activation of Methane by Diatomic Metal Oxide Radical Cations: PbO ⁺ as One of the Missing Pieces. <i>ChemCatChem</i> , 2010 , 2, 1391-1394	5.2	29
27	Reactivity Pattern in the Room-Temperature Activation of NH ₃ by the Main-Group Atomic Ions Ga ⁺ , Ge ⁺ , As ⁺ and Se ⁺ . <i>European Journal of Inorganic Chemistry</i> , 2010 , 2010, 1516-1521	2.3	17
26	Generation of gas-phase nanosized vanadium oxide clusters from a mononuclear precursor by solution nucleation and electrospray ionization. <i>Chemistry - A European Journal</i> , 2010 , 16, 1163-7	4.8	21
25	Bonding in cationic MCH ₂ ⁺ (M=K-La, Hf-Rn): a theoretical study on periodic trends. <i>Chemistry - A European Journal</i> , 2010 , 16, 5882-8	4.8	50
24	Conversion of methane to methanol: nickel, palladium, and platinum (d ⁹) cations as catalysts for the oxidation of methane by ozone at room temperature. <i>Chemistry - A European Journal</i> , 2010 , 16, 11605-10	4.8	76
23	N(2) activation by a hafnium complex: a DFT study on CO-assisted dinitrogen cleavage and functionalization. <i>Chemistry - A European Journal</i> , 2010 , 16, 12564-9	4.8	14
22	A DFT-based analysis of the grossly varying reactivity pattern in room-temperature activation and dehydrogenation of CH ₄ by main-group atomic M ⁺ (M=Ga, Ge, As, and Se). <i>Chemistry - A European Journal</i> , 2009 , 15, 11559-65	4.8	13
21	Isotope-sensitive degenerate [1,3]-hydrogen migration versus competitive enol-keto tautomerization. <i>Chemistry - A European Journal</i> , 2009 , 15, 11815-9	4.8	7
20	DFT Studies on the Thermal Activation of Molecular Oxygen by Bare [Ni(H)(OH)] ⁺ . <i>Helvetica Chimica Acta</i> , 2009 , 92, 151-164	2	10
19	Facile Dissociation of [(LNi(II)E ₂)] Dichalcogenides: Evidence for [LNi(II)E ₂] Superselenides and Supertellurides in Solution. <i>Angewandte Chemie</i> , 2009 , 121, 4621-4624	3.6	6
18	Facile dissociation of [(LNi(II)E ₂)] dichalcogenides: evidence for [LNi(II)E ₂] superselenides and supertellurides in solution. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 4551-4	16.4	24
17	Reactivities of d ⁰ transition metal complexes toward oxygen: Synthetic and mechanistic studies. <i>Science in China Series B: Chemistry</i> , 2009 , 52, 1723-1733		15

16	A redox non-innocent ligand controls the life time of a reactive quartet excited state - an MCSCF study of [Ni(H)(OH)](+). <i>Journal of the American Chemical Society</i> , 2009 , 131, 12634-42	16.4	32
15	Gaseous Ni ⁺ complexes with BINOL derivatives and chiral esters in the gas phase: an experimental and theoretical investigation. <i>Collection of Czechoslovak Chemical Communications</i> , 2009 , 74, 255-273		1
14	A DFT study on the mechanism of hydrosilylation of unsaturated compounds with neutral hydrido(hydrosilylene)tungsten complex. <i>Journal of Organic Chemistry</i> , 2008 , 73, 820-9	4.2	32
13	Unexpected Formation of (Dimethylaminomethylene)methylamide Complexes from the Reactions between Metal Chlorides and Lithium Dimethylamide. <i>Organometallics</i> , 2008 , 27, 1338-1341	3.8	24
12	Pyridyne radical cations produced by photodissociation of Mg ⁺ (multifluoro-pyridine) complexes: a combined experimental and theoretical study. <i>Physical Chemistry Chemical Physics</i> , 2007 , 9, 607-15	3.6	1
11	Reaction of Ta(NMe ₂) ₅ with O ₂ : formation of aminoxy and unusual (aminomethyl)amide oxo complexes and theoretical studies of the mechanistic pathways. <i>Journal of the American Chemical Society</i> , 2007 , 129, 14408-21	16.4	39
10	Synthetic study of 1,3-butadiene-based IMDA approach to construct a [5-7-6] tricyclic core and its application to the total synthesis of C ₈ -epi-guanacastepene O. <i>Journal of Organic Chemistry</i> , 2006 , 71, 6892-7	4.2	39
9	Fluorine-substitution induced switching of dissociation patterns of C ₆ H ₄ ⁺ produced by photoelimination of MgF ₂ from the complexes of mg ⁺ (multifluorobenzene). <i>Physical Chemistry Chemical Physics</i> , 2005 , 7, 826-31	3.6	4
8	A theoretical study on the mechanism of the reductive half-reaction of xanthine oxidase. <i>Inorganic Chemistry</i> , 2005 , 44, 1466-71	5.1	34
7	A Tungsten Silyl Alkylidyne Complex and Its Bis(alkylidene) Tautomer. Their Interconversion and an Unusual Silyl Migration in Their Reaction with Dioxygen. <i>Organometallics</i> , 2005 , 24, 1214-1224	3.8	33
6	Reactions of d ⁰ group 4 amides with dioxygen. Preparation of unusual oxo aminoxy complexes and theoretical studies of their formation. <i>Journal of the American Chemical Society</i> , 2005 , 127, 5204-11	16.4	38
5	Exploring an expedient IMDA reaction approach to construct the guanacastepene core. <i>Organic Letters</i> , 2005 , 7, 3709-12	6.2	28
4	Effects of Aromatic Substitutions on the Photoreactions in Mg \equiv (C ₆ H _n F ₂ X _{4-n}) (X = F, CH ₃) Complexes: Formation and Decomposition of Benzyne Radical Cations. <i>Journal of Physical Chemistry A</i> , 2004 , 108, 3356-3366	2.8	6
3	An unusual exchange between alkylidyne alkyl and bis(alkylidene) tungsten complexes promoted by phosphine coordination: kinetic, thermodynamic, and theoretical studies. <i>Journal of the American Chemical Society</i> , 2004 , 126, 10208-9	16.4	39
2	Unusual chemistry of the complex Mg ⁺ (2-fluoropyridine) activated by the photoexcitation of Mg ⁺ . <i>Journal of the American Chemical Society</i> , 2003 , 125, 12351-7	16.4	7
1	Accurate calculation, prediction, and assignment of ³ He NMR chemical shifts of helium-3-encapsulated fullerenes and fullerene derivatives. <i>Journal of Organic Chemistry</i> , 2003 , 68, 6732-8	4.2	31