Zhuo-Feng Ke

List of Publications by Year in Descending Order

139 papers	4,358 citations	36 h-index	62 g-index
158 ext. papers	5,210 ext. citations	7.5 avg, IF	5.78 L-index

#	Paper	IF	Citations
139	Chiral Bidentate Boryl Ligand-Enabled Iridium-Catalyzed Enantioselective Dual C□H Borylation of Ferrocenes: Reaction Development and Mechanistic Insights. *ACS Catalysis*, **2022**, 12, 1830-1840	13.1	5
138	Electronic and Steric Properties of N-Heterocyclic Boryl Ligands. *Organometallics*, **2022**, 41, 627-633	3.8	1
137	DFT Mechanistic Study of the Cyclopropanation of Styrene and Aryldiazodiacetate Catalyzed by Tris(pentafluorophenyl)borane.. *ACS Omega*, **2022**, 7, 12900-12909	3.9	
136	Ruthenium Catalyzed Selective Acceptorless Dehydrogenation of Allylic Alcohols to □,□-Unsaturated Carbonyls. *Chinese Journal of Organic Chemistry*, **2021**, 41, 4361	3	
135	Highly efficient photosynthesis of hydrogen peroxide in ambient conditions. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118,	11.5	18
134	Design, synthesis, and physicochemical study of a biomass-derived CO sorbent 2,5-furan-bis(iminoguanidine). *IScience*, **2021**, 24, 102263	6.1	
133	Mechanism of Ir-Mediated Selective Pyridine o-C□H Activation: The Role of Lewis Acidic Boryl Group. *ACS Catalysis*, **2021**, 11, 6186-6192	13.1	3
132	Photocatalyzed cycloaromatization of vinylsilanes with arylsulfonylazides. *Nature Communications*, **2021**, 12, 3304	17.4	10
131	Highly active electrocatalytic CO2 reduction with manganese N-heterocyclic carbene pincer by para electronic tuning. *Chinese Chemical Letters*, **2021**,	8.1	2
130	Mechanism of Counterion-Controlled Regioselective Hydrothiolation of 1,3-Dienes: Insights from a Density Functional Theory Study. *ACS Catalysis*, **2021**, 11, 7659-7671	13.1	0
129	Recent progress in electro- and photo-catalytic CO2 reduction using N-heterocyclic carbene transition metal complexes. *Polyhedron*, **2021**, 203, 115147	2.7	1
128	Visible-Light Driven Efficient Overall H2O2 Production on Modified Graphitic Carbon Nitride under Ambient Conditions. *Applied Catalysis B: Environmental*, **2021**, 285, 119726	21.8	19
127	Stabilization of maneb group by ethylenediamine and direct-determination by liquid chromatography tandem mass spectrometry. *Food Chemistry*, **2021**, 345, 128774	8.5	3
126	Tungsten-Catalyzed Direct N-Alkylation of Anilines with Alcohols. *ChemSusChem*, **2021**, 14, 860-865	8.3	7
125	From carbones to carbenes and ylides in the coordination sphere of iridium. *Dalton Transactions*, **2021**, 50, 954-959	4.3	2
124	Recent advances on N-heterocyclic carbene transition metal complexes for dehydrogenative catalysis using alcohols. *Catalysis Today*, **2021**, 370, 114-141	5.3	10
123	Diazadiborinine as an ambiphilic catalyst for metal-free hydrogenation: a computational study on the structural design and reaction mechanism. *Organic Chemistry Frontiers*, **2021**, 8, 1206-1215	5.2	3

122	Ruthenium(II) complexes with N-heterocyclic carbene-phosphine ligands for the -alkylation of amines with alcohols. *Organic and Biomolecular Chemistry*, **2021**, 19, 3451-3461	3.9	9
121	Anion ordering and vacancy defects in niobium perovskite oxynitrides. *Materials Advances*, **2021**, 2, 2398-2407	3.5	
120	Unusual mechanism of paramagnetic nickel-catalysed -alkylation of amides. *Dalton Transactions*, **2021**, 50, 6923-6932	4.3	
119	Incorporation of HO and CO into a BN-embedded 3-3-acephenanthrylene derivative. *Chemical Communications*, **2021**, 57, 1226-1229	5.8	0
118	Dual roles of the electronic effect on selectivity: pincer nickel-electrocatalyzed CO2 reduction. *Catalysis Science and Technology*, **2021**, 11, 874-885	5.5	3
117	A DFT study on the selectivity of CO2 reduction electrocatalyzed by heterofluorene bis-NHC Ni pincer complexes: Interplay of media and structure factor. *Inorganic Chemistry Communication*, **2021**, 130, 108690	3.1	0
116	Enantioselective Oxidative Multi-Functionalization of Terminal Alkynes with Nitrones and Alcohols for Expeditious Assembly of Chiral -Alkoxy--amino-ketones. *Journal of the American Chemical Society*, **2021**, 143, 14703-14711	16.4	12
115	Enhanced Hydride Donation Achieved Molybdenum Catalyzed Direct N-Alkylation of Anilines or Nitroarenes with Alcohols: From Computational Design to Experiment. *ACS Catalysis*, **2021**, 11, 10377-10382	13.1	7
114	Phytic Acid-Based FeCo Bimetallic Metal-Organic Gels for Electrocatalytic Oxygen Evolution Reaction. *Chemistry - an Asian Journal*, **2021**, 16, 3213-3220	4.5	0
113	Metal Effect Meets Volcano Plots: A DFT Study on Tris(phosphino)borane-Transition Metal Complexes Catalyzed H Activation. *Chemistry - an Asian Journal*, **2021**, 16, 3427-3436	4.5	0
112	Selective C-alkylation Between Alcohols Catalyzed by N-Heterocyclic Carbene Molybdenum. *Chemistry - an Asian Journal*, **2021**, 16, 3124-3128	4.5	1
111	Visible-Light-Induced Amination of Quinoline at the C8 Position via a Postcoordinated Interligand-Coupling Strategy under Mild Conditions. *Inorganic Chemistry*, **2021**, 60, 908-918	5.1	4
110	BNN-1,3-dipoles: isolation and intramolecular cycloaddition with unactivated arenes. *Chemical Science*, **2020**, 11, 7053-7059	9.4	7
109	Synthesis and biological evaluation of suffrutines A, B and their N-fused analogues. *Organic Chemistry Frontiers*, **2020**, 7, 1122-1131	5.2	1
108	Transition metal center effect on the mechanism of homogenous hydrogenation and dehydrogenation. *Inorganica Chimica Acta*, **2020**, 511, 119808	2.7	5
107	Hypervalent Iodine-Mediated Diastereoselective -Acetoxylation of Cyclic Ketones. *Frontiers in Chemistry*, **2020**, 8, 467	5	3
106	Synthesis of seven-membered lactones by regioselective and stereoselective iodolactonization of electron-deficient olefins. *Chemical Communications*, **2020**, 56, 6680-6683	5.8	3
105	Sustainable and Selective Alkylation of Deactivated Secondary Alcohols to Ketones by Non-bifunctional Pincer N-heterocyclic Carbene Manganese. *ChemSusChem*, **2020**, 13, 2557-2563	8.3	19

104	Highly efficient and selective photocatalytic CO to CO conversion in aqueous solution. *Chemical Communications*, **2020**, 56, 3851-3854	5.8	18
103	The origin of different driving forces between OH/NH functional groups in metal ligand cooperation: mechanistic insight into Mn(I) catalysed transfer hydrogenation. *Catalysis Science and Technology*, **2020**, 10, 169-179	5.5	4
102	Constructing 2D MOFs from 2D LDHs: a highly efficient and durable electrocatalyst for water oxidation. *Journal of Materials Chemistry A*, **2020**, 8, 190-195	13	54
101	The potential of d6 non-noble metal NHC catalysts for carbon dioxide hydrogenation: group and row effects. *Catalysis Science and Technology*, **2020**, 10, 5443-5447	5.5	9
100	Direct Carbon–Carbon Bond Amination of Unstrained Arylalkylketones. *ACS Catalysis*, **2020**, 10, 8402-8408	13.1	15
99	Electronic Effect on Bimetallic Catalysts: Cleavage of Phosphodiester Mediated by Fe(III)-Zn(II) Purple Acid Phosphatase Mimics. *Inorganic Chemistry*, **2020**, 59, 12065-12074	5.1	5
98	Defect Engineering for Photocatalysis: From Ternary to Perovskite Oxynitrides. *ChemNanoMat*, **2020**, 6, 708-719	3.5	9
97	Metallalkenyl, Metallacyclopropene, or Metallallylcarbenoid? Ru-Catalyzed Annulation between Benzoic Acid and Alkyne. *ACS Catalysis*, **2019**, 9, 9387-9392	13.1	13
96	Nonbifunctional Outer-Sphere Strategy Achieved Highly Active Alkylation of Ketones with Alcohols by -Heterocyclic Carbene Manganese (NHC-Mn). *Organic Letters*, **2019**, 21, 8065-8070	6.2	39
95	Bifurcated Hydrogen-Bond-Stabilized Boron Analogues of Carboxylic Acids. *Inorganic Chemistry*, **2019**, 58, 13370-13375	5.1	10
94	A DFT study of Co(I) and Ni(II) pincer complex-catalyzed hydrogenation of ketones: intriguing mechanism dichotomy by ligand field variation. *Catalysis Science and Technology*, **2019**, 9, 125-135	5.5	10
93	A bifunctional strategy for N-heterocyclic carbene-stabilized iridium complex-catalyzed N-alkylation of amines with alcohols in aqueous media. *Green Chemistry*, **2019**, 21, 219-224	10	46
92	Perylene Diimide Based Imine Cages for Inclusion of Aromatic Guest Molecules and Visible-Light Photocatalysis. *ChemPhotoChem*, **2019**, 3, 1014-1019	3.3	11
91	Redox-Active, Boron-Based Ligands in Iron Complexes with Inverted Hydride Reactivity in Dehydrogenation Catalysis. *ACS Catalysis*, **2019**, 9, 7300-7309	13.1	9
90	Mechanism of SiH Bond Activation for Lewis Acid PBP-Ni-Catalyzed Hydrosilylation of CO2: The Role of the Linear SN2 Type Cooperation. *ACS Catalysis*, **2019**, 9, 5279-5289	13.1	13
89	Co(II)-Catalyzed Regioselective Pyridine C-H Coupling with Diazoacetates. *Organic Letters*, **2019**, 21, 3427-3430	6.2	13
88	Room temperature N-heterocyclic carbene manganese catalyzed selective N-alkylation of anilines with alcohols. *Chemical Communications*, **2019**, 55, 6213-6216	5.8	70
87	Chiral Bidentate Boryl Ligand Enabled Iridium-Catalyzed Asymmetric C(sp)-H Borylation of Diarylmethylamines. *Journal of the American Chemical Society*, **2019**, 141, 5334-5342	16.4	57

86	Interfacial Electronic Structure Modulation of NiTe Nanoarrays with NiS Nanodots Facilitates Electrocatalytic Oxygen Evolution. *Advanced Materials*, **2019**, 31, e1900430	24	186
85	Catalyzed or non-catalyzed: chemoselectivity of Ru-catalyzed acceptorless dehydrogenative coupling of alcohols and amines via metal–ligand bond cooperation and (de)aromatization. *Catalysis Science and Technology*, **2019**, 9, 2305-2314	5.5	12
84	New Phosphorene by Phase Combination with Tunable Electronic and Mechanical Properties. *Journal of Physical Chemistry C*, **2019**, 123, 10788-10794	3.8	9
83	One catalyst, multiple processes: ligand effects on chemoselective control in Ru-catalyzed anti-Markovnikov reductive hydration of terminal alkynes. *Catalysis Science and Technology*, **2019**, 9, 2315-2327	5.5	2
82	A 2D NiFe Bimetallic Metal–Organic Frameworks for Efficient Oxygen Evolution Electrocatalysis. *Energy and Environmental Materials*, **2019**, 2, 18-21	13	37
81	Lewis Acid Transition-Metal-Catalyzed Hydrogen Activation: Structures, Mechanisms, and Reactivities. *Chemistry - A European Journal*, **2019**, 25, 13785-13798	4.8	7
80	Hierarchical Gelation of a PdL Metal-Organic Cage Regulated by Cholesteryl Groups. *Inorganic Chemistry*, **2019**, 58, 10019-10027	5.1	10
79	Stereoselective synthesis of sulfur-containing β-enaminonitrile derivatives through electrochemical Csp-H bond oxidative functionalization of acetonitrile. *Nature Communications*, **2019**, 10, 833	17.4	35
78	One-Step Construction of Hydrophobic MOFs@COFs Core-Shell Composites for Heterogeneous Selective Catalysis. *Advanced Science*, **2019**, 6, 1802365	13.6	75
77	Unraveling mechanisms of the uncoordinated nucleophiles: theoretical elucidations of the cleavage of bis(-nitrophenyl) phosphate mediated by zinc-complexes with apical nucleophiles.. *RSC Advances*, **2019**, 9, 37696-37704	3.7	1
76	Mechanism of Hypervalent Iodine Promoted Fluorocyclization of Unsaturated Alcohols: Metathesis via Double Acids Activation. *Journal of Organic Chemistry*, **2019**, 84, 458-462	4.2	25
75	Cationic Organochalcogen with Monomer/Excimer Emissions for Dual-Color Live Cell Imaging and Cell Damage Diagnosis. *ACS Applied Materials & Interfaces*, **2018**, 10, 13264-13273	9.5	20
74	Rational design of FLP catalysts for reversible H2 activation: A DFT study of the geometric and electronic effects. *Chinese Chemical Letters*, **2018**, 29, 1226-1232	8.1	5
73	Frustrated Lewis Pair Catalyzed C-H Activation of Heteroarenes: A Stepwise Carbene Mechanism Due to Distance Effect. *Organic Letters*, **2018**, 20, 1102-1105	6.2	15
72	Co(III)-Catalyzed Coupling-Cyclization of Aryl C–H Bonds with β-Diazoketones Involving Wolff Rearrangement. *ACS Catalysis*, **2018**, 8, 1308-1312	13.1	73
71	Making more efficient lithium carbenoid reagents for cyclopropanation by hetero-aggregation: A DFT prediction on a new factor to control the SN2-Type organometallic reaction. *Journal of Organometallic Chemistry*, **2018**, 864, 110-114	2.3	4
70	Homogeneously catalyzed hydrogenation and dehydrogenation reactions – From a mechanistic point of view. *Physical Sciences Reviews*, **2018**, 3,	1.4	2
69	Zwitterionic Copolymerization of β-Butyrolactone with Styrene. *Macromolecular Chemistry and Physics*, **2018**, 219, 1800189	2.6	1

68	Elucidating metal hydride reactivity using late transition metal boryl and borane hydrides: 2c2e terminal hydride, 3c2e bridging hydride, and 3c4e bridging hydride. *Catalysis Science and Technology*, **2018**, 8, 3395-3405	5.5	9
67	Rh(iii)-catalyzed regioselective intermolecular -methylene Csp-H bond carbenoid insertion. *Chemical Science*, **2018**, 9, 985-989	9.4	29
66	DFT study of CO2 hydrogenation catalyzed by a cobalt-based system: an unexpected formate anion-assisted deprotonation mechanism. *Catalysis Science and Technology*, **2018**, 8, 656-666	5.5	19
65	10. Homogeneously catalyzed hydrogenation and dehydrogenation reactions From a mechanistic point of view **2018**, 327-368		
64	Regulating the Optoelectronic Properties of Nickel Dithiolene by the Substituents: A Theoretical Study. *Materials*, **2018**, 11,	3.5	3
63	Modulating Electronic Structure of Metal-Organic Framework for Efficient Electrocatalytic Oxygen Evolution. *Advanced Energy Materials*, **2018**, 8, 1801564	21.8	178
62	Oxygen Vacancy Defect Migration in Titanate Perovskite Surfaces: Effect of the A-Site Cations. *Journal of Physical Chemistry C*, **2018**, 122, 14590-14597	3.8	14
61	Diastereoselectivity in a cyclic secondary amine catalyzed asymmetric Mannich reaction: a model rationalization from DFT studies. *Organic Chemistry Frontiers*, **2018**, 5, 2148-2157	5.2	3
60	Flexible Steric Bulky Bis(Imino)acenaphthene (BIAN)-Supported N-Heterocyclic Carbene Palladium Precatalysts: Catalytic Application in Buchwald-Hartwig Amination in Air. *Journal of Organic Chemistry*, **2017**, 82, 2914-2925	4.2	46
59	Ruthenium-Catalyzed Direct Synthesis of Semisaturated Bicyclic Pyrimidines via Selective Transfer Hydrogenation. *Organic Letters*, **2017**, 19, 2730-2733	6.2	26
58	A Highly Selective and Robust Co(II)-Based Homogeneous Catalyst for Reduction of CO to CO in CHCN/HO Solution Driven by Visible Light. *Inorganic Chemistry*, **2017**, 56, 7307-7311	5.1	40
57	Merging Distal Alkynyl Migration and Photoredox Catalysis for Radical Trifluoromethylative Alkynylation of Unactivated Olefins. *Angewandte Chemie - International Edition*, **2017**, 56, 4545-4548	16.4	127
56	When Bifunctional Catalyst Encounters Dual MLC Modes: DFT Study on the Mechanistic Preference in Ru-PNNH Pincer Complex Catalyzed Dehydrogenative Coupling Reaction. *ACS Catalysis*, **2017**, 7, 786-795	13.1	32
55	The effect of auxiliary ligand on the mechanism and reactivity: DFT study on H2 activation by Lewis acid transition metal complex (tris(phosphino)borane)Fe(L). *Catalysis Science and Technology*, **2017**, 7, 4866-4878	5.5	8
54	Further insight into the electrocatalytic water oxidation by macrocyclic nickel(II) complexes: the influence of steric effect on catalytic activity. *Catalysis Science and Technology*, **2017**, 7, 5585-5593	5.5	26
53	Boron-Based Lewis Acid Transition Metal Complexes as Potential Bifunctional Catalysts. *Chinese Journal of Organic Chemistry*, **2017**, 37, 2187	3	18
52	Bulky diimine palladium complexes: highly efficient for direct C-H bond arylation of heteroarenes under aerobic conditions. *Dalton Transactions*, **2016**, 45, 14919-27	4.3	23
51	Iridium(III)-Catalyzed Regioselective Intermolecular Unactivated Secondary Csp3H Bond Amidation. *Angewandte Chemie*, **2016**, 128, 12076-12080	3.6	17

50	Iridium(III)-Catalyzed Regioselective Intermolecular Unactivated Secondary Csp(3) -H Bond Amidation. *Angewandte Chemie - International Edition*, **2016**, 55, 11897-901	16.4	52
49	DFT Study of Acceptorless Alcohol Dehydrogenation Mediated by Ruthenium Pincer Complexes: Ligand Tautomerization Governing Metal Ligand Cooperation. *Inorganic Chemistry*, **2016**, 55, 6539-51	5.1	51
48	Copper-Catalyzed Carbamoylation of Terminal Alkynes with Formamides via Cross-Dehydrogenative Coupling. *ACS Catalysis*, **2016**, 6, 1263-1267	13.1	35
47	General H2 Activation Modes for Lewis Acid□ransition Metal Bifunctional Catalysts. *ACS Catalysis*, **2016**, 6, 1655-1662	13.1	64
46	Comparative analysis of linear and non-linear transition state of hydrogen transfer reaction between benzoyl type radicals with skipped alkadienes. *Computational and Theoretical Chemistry*, **2016**, 1081, 25-29	2	5
45	Rationalization of the selectivity between 1,3- and 1,2-migration: a DFT study on gold(i)-catalyzed propargylic ester rearrangement. *Organic and Biomolecular Chemistry*, **2016**, 14, 3558-63	3.9	16
44	A theoretical study of dirhodium-catalyzed intramolecular aliphatic C□H bond amination of aryl azides. *RSC Advances*, **2016**, 6, 29045-29053	3.7	11
43	Copper-Catalyzed Regioselective C-H Sulfonylation of 8-Aminoquinolines. *Journal of Organic Chemistry*, **2016**, 81, 946-55	4.2	83
42	G-Quadruplex DNA-binding quaternary alkaloids from Tylophora atrofolliculata. *RSC Advances*, **2016**, 6, 114135-114142	3.7	4
41	Enantioselective Hydrolysis of Amino Acid Esters Promoted by Bis(□yclodextrin) Copper Complexes. *Scientific Reports*, **2016**, 6, 22080	4.9	13
40	2,6-Bis(benzimidazol-2-yl)pyridine as a potent transmembrane anion transporter. *Bioorganic and Medicinal Chemistry Letters*, **2016**, 26, 2442-2445	2.9	8
39	Sterically Encumbered Tetraarylimidazolium Carbene Pd-PEPPSI Complexes: Highly Efficient Direct Arylation of Imidazoles with Aryl Bromides under Aerobic Conditions. *Organometallics*, **2016**, 35, 2655-2663	3.8	53
38	The effect of HSAB on stereoselectivity: copper- and gold-catalyzed 1,3-phosphatyloxy and 1,3-halogen migration relay to 1,3-dienes. *Journal of Organic Chemistry*, **2015**, 80, 1661-71	4.2	5
37	The ONIOM Method and Its Applications. *Chemical Reviews*, **2015**, 115, 5678-796	68.1	671
36	Unusual non-bifunctional mechanism for Co-PNP complex catalyzed transfer hydrogenation governed by the electronic configuration of metal center. *Dalton Transactions*, **2015**, 44, 16573-85	4.3	36
35	Nonplanar Organic Sensitizers Featuring a Tetraphenylethene Structure and Double Electron-Withdrawing Anchoring Groups. *Journal of Organic Chemistry*, **2015**, 80, 9034-40	4.2	25
34	Aerobic and Efficient Direct Arylation of Five-Membered Heteroarenes and Their Benzocondensed Derivatives with Aryl Bromides by Bulky □Hydroxyimine Palladium Complexes. *Organometallics*, **2015**, 34, 4881-4894	3.8	30
33	Removal of NO with silicene: a DFT investigation. *RSC Advances*, **2015**, 5, 22135-22147	3.7	13

32	Homogeneous electrocatalytic water oxidation at neutral pH by a robust macrocyclic nickel(II) complex. *Angewandte Chemie - International Edition*, **2014**, 53, 13042-8	16.4	211
31	Enantioselective Synthesis of Axially Chiral Biaryl Monophosphine Oxides via Direct Asymmetric Suzuki Coupling and DFT Investigations of the Enantioselectivity. *ACS Catalysis*, **2014**, 4, 1390-1397	13.1	57
30	Hydrogenation of Carbon Dioxide Using Half-Sandwich Cobalt, Rhodium, and Iridium Complexes: DFT Study on the Mechanism and Metal Effect. *ACS Catalysis*, **2014**, 4, 2990-2997	13.1	73
29	Homogeneous Electrocatalytic Water Oxidation at Neutral pH by a Robust Macrocyclic Nickel(II) Complex. *Angewandte Chemie*, **2014**, 126, 13258-13264	3.6	57
28	The origin of enantioselectivity for intramolecular Friedel□Crafts reaction catalyzed by supramolecular Cu/DNA catalyst complex. *Chemical Physics Letters*, **2014**, 600, 87-95	2.5	23
27	Histone-deacetylase-targeted fluorescent ruthenium(II) polypyridyl complexes as potent anticancer agents. *Chemistry - A European Journal*, **2013**, 19, 10160-9	4.8	63
26	Binding mechanism and synergetic effects of xanthone derivatives as noncompetitive □-glucosidase inhibitors: a theoretical and experimental study. *Journal of Physical Chemistry B*, **2013**, 117, 13464-71	3.4	33
25	Density functional theory study of the mechanism of zinc carbenoid promoted cyclopropanation of allenamides. *RSC Advances*, **2013**, 3, 17131	3.7	8
24	Mechanism and enantioselectivity of dirhodium-catalyzed intramolecular C-H amination of sulfamate. *Journal of Organic Chemistry*, **2013**, 78, 12460-8	4.2	36
23	Catalytic mechanism in artificial metalloenzyme: QM/MM study of phenylacetylene polymerization by rhodium complex encapsulated in apo-Ferritin. *Journal of the American Chemical Society*, **2012**, 134, 15418-29	16.4	46
22	Dinuclear Zn(II) complex catalyzed phosphodiester cleavage proceeds via a concerted mechanism: a density functional theory study. *Journal of the American Chemical Society*, **2011**, 133, 2904-15	16.4	52
21	An amphiphilic conjugate approach toward the design and synthesis of betulinic acid-polyphenol conjugates as inhibitors of the HIV-1 gp41 fusion core formation. *ChemMedChem*, **2011**, 6, 1654-64	3.7	10
20	Rh-catalyzed polymerization of phenylacetylene: theoretical studies of the reaction mechanism, regioselectivity, and stereoregularity. *Journal of the American Chemical Society*, **2011**, 133, 7926-41	16.4	63
19	Palladium-Catalyzed C□H Activation/C□N Bond Formation Reactions: DFT Study of Reaction Mechanisms and Reactive Intermediates. *Organometallics*, **2010**, 29, 821-834	3.8	65
18	Six-, Five-, and Four-Coordinate Ruthenium(II) Hydride Complexes Supported by N-Heterocyclic Carbene Ligands: Synthesis, Characterization, Fundamental Reactivity, and Catalytic Hydrogenation of Olefins, Aldehydes, and Ketones. *Organometallics*, **2009**, 28, 1758-1775	3.8	56
17	Influence of water hydrogen bonding on the reactions of arylnitrenium ions with guanosine: hydrogen-bonding effects can favor reaction at the C8 site. *Journal of Physical Chemistry B*, **2009**, 113, 6528-32	3.4	12
16	Ru(II) catalysts supported by hydridotris(pyrazolyl)borate for the hydroarylation of olefins: reaction scope, mechanistic studies, and guides for the development of improved catalysts. *Accounts of Chemical Research*, **2009**, 42, 585-97	24.3	180
15	Aromatic C□H Activation and Catalytic Hydrophenylation of Ethylene by TpRu{P(OCH2)3CEt}(NCMe)Ph. *Organometallics*, **2008**, 27, 3007-3017	3.8	52

14	Intrinsic Reaction Coordinate Analysis of the Activation of CH4 by Molybdenum Atoms: A Density Functional Theory Study of the Crossing Seams of the Potential Energy Surfaces. *Organometallics*, **2008**, 27, 181-188	3.8	23
13	Synthesis, inhibitory activities, and QSAR study of xanthone derivatives as alpha-glucosidase inhibitors. *Bioorganic and Medicinal Chemistry*, **2008**, 16, 7185-92	3.4	48
12	Methylene transfer or carbometalation? A theoretical study to determine the mechanism of lithium carbenoid-promoted cyclopropanation reactions in aggregation and solvation States. *Journal of Organic Chemistry*, **2007**, 72, 848-60	4.2	21
11	Concurrent cyclopropanation by carbenes and carbanions? A density functional theory study on the reaction pathways. *Journal of Organic Chemistry*, **2007**, 72, 5139-45	4.2	11
10	On the mechanism and stereochemistry of chiral lithium-carbenoid-promoted cyclopropanation reactions. *Chemistry - A European Journal*, **2007**, 13, 6724-31	4.8	19
9	Drastic ligand electronic effect on anilido□mino nickel catalysts toward ethylene polymerization. *Polymer*, **2007**, 48, 7249-7254	3.9	40
8	A DFT study on the mechanism of Rh2(II,II)-catalyzed intramolecular amidation of carbamates. *Chemistry - an Asian Journal*, **2007**, 2, 1101-8	4.5	95
7	Ethylene polymerization and oligomerization catalyzed by bulky □diketiminato Ni(II) and □diimine Ni(II) complexes/methylaluminoxane systems. *Journal of Molecular Catalysis A*, **2006**, 249, 31-39		40
6	A Density Functional Theory Study of Aluminum Carbenoid (CH3)2AlCH2X (X = Cl, Br, I) Promoted Cyclopropanation Reactions Compared to IMCH2I (M = Li, Sm, Zn) Carbenoids. *Organometallics*, **2006**, 25, 3735-3742	3.8	24
5	Low VOC bifunctional photoinitiator based on □hydroxyalkylphenone structure. *Polymer*, **2006**, 47, 4603-4612	3.9	10
4	Investigation of 1-hexene isomerization and oligomerization catalyzed with □diketiminato Ni(II) bromide complexes/methylaluminoxane system. *Journal of Molecular Catalysis A*, **2005**, 231, 27-34		41
3	Iridium-Catalyzed Enantioselective C□H Borylation of Diarylphosphinates. *ACS Catalysis*,13445-13451	13.1	6
2	Bifunctional Effect of a Triple-Bond Heterobimetallic Zr/Co System for Hydrogen Activation. *ACS Catalysis*,13452-13462	13.1	0
1	External Photocatalyst-Free Visible Light-Promoted 1,3-Addition of Perfluoroalkyl Iodides to Vinyldiazoacetates. *CCS Chemistry*,794-805	7.2	2