Zheng Huang

List of Publications by Year
in descending order

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88	6,647	53794 45	62596 80
papers	citations	h-index	g-index

110	110	110	4726
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Asymmetric Transfer Hydrogenation of Diaryl Ketones with Ethanol Catalyzed by Chiral <scp>NCP</scp> Pincer Iridium Complexes. Chinese Journal of Chemistry, 2022, 40, 1131-1136.	4.9	7
2	Iron Catalyzed Isomerization of <scp>Î±â€Alkyl</scp> Styrenes to Access Trisubstituted Alkenes. Chinese Journal of Chemistry, 2021, 39, 585-589.	4.9	14
3	Iron-Catalyzed Regio- and Stereoselective Hydrosilylation of 1,3-Enynes To Access 1,3-Dienylsilanes. Organic Letters, 2021, 23, 2375-2379.	4.6	16
4	An Amine-Assisted Ionic Monohydride Mechanism Enables Selective Alkynecis-Semihydrogenation with Ethanol: From Elementary Steps to Catalysis. Journal of the American Chemical Society, 2021, 143, 4824-4836.	13.7	42
5	Ru-Catalyzed Site-Selective Aliphatic Câ€“H Bond Silylation of Amides and Carbamides. Organometallics, 2021, 40, 2365-2370.	2.3	7
6	Pincer Iron Hydride Complexes for Alkene Isomerization: Catalytic Approach to Trisubstituted (Z)-Alkenyl Boronates. ACS Catalysis, 2021, 11, 10138-10147.	11.2	22
7	Ruthenium-Catalyzed Dual Dehydrogenative Silylation of C(sp³)â€“H Bonds: Access to Diverse Silicon-Centered Spirocycles. Organic Letters, 2021, 23, 7603-7607.	4.6	6
8	Site-Selective Acceptorless Dehydrogenation of Aliphatics Enabled by Organophotoredox/Cobalt Dual Catalysis. Journal of the American Chemical Society, 2021, 143, 16470-16485.	13.7	65
9	Chiral Iridium Complexes of Anionic NCP Pincer Ligand for Asymmetric Transfer Hydrogenation of 1,1-Diarylethenes with Ethanol. Organic Letters, 2021, 23, 8978-8983.	4.6	8
10	Cobaltâ€Catalyzed Regioâ€and Stereoselective Hydroboration of Allenes. Angewandte Chemie - International Edition, 2020, 59, 6278-6283.	13.8	34
11	n -Alkanes to n -alcohols: Formal primary Câ”€H bond hydroxymethylation via quadruple relay catalysis. Science Advances, 2020, 6, .	10.3	28
12	Ruthenium-Catalyzed Hydrodefluorination with Silane as the Directing and Reducing Group. Organic Letters, 2020, 22, 9298-9302.	4.6	10
13	Double-Linear Insertion Mode of Î±,Ï‰-Dienes Enabled by Thio-imino-quinoline Iron Catalyst. ACS Catalysis, 2020, 10, 15092-15103.	11.2	7
14	N-Bridged Pincer Iridium Complexes for Highly Efficient Alkane Dehydrogenation and the Relevant Linker Effects. ACS Catalysis, 2020, 10, 6475-6487.	11.2	25
15	Recent Advances in <scp>Coordinationâ€Insertion</scp> Copolymerization of Ethylene with Polar Functionalized Comonomers. Chinese Journal of Chemistry, 2020, 38, 1445-1448.	4.9	12
16	NCPâ€Type Pincer Iridium Complexes Catalyzed Transferâ€Dehydrogenation of Alkanes and Heterocycles â€. Chinese Journal of Chemistry, 2020, 38, 837-841.	4.9	18
17	Dehydrogenation of Primary Alkyl Azides to Nitriles Catalyzed by Pincer Iridium/Ruthenium Complexes. ChemCatChem, 2020, 12, 3661-3665.	3.7	6
18	Cobaltâ€Catalyzed Regioâ€and Stereoselective Hydroboration of Allenes. Angewandte Chemie, 2020, 132, 6337-6342.	2.0	9

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19	Ligand controlled cobalt catalyzed regiodivergent 1,2-hydroboration of 1,3-dienes. Science China Chemistry, 2019, 62, 336-340.	8.2	18
20	Catalyst as colour indicator for endpoint detection to enable selective alkyne trans-hydrogenation with ethanol. Nature Catalysis, 2019, 2, 529-536.	34.4	55
21	A BEt₃-Base Catalyst for Amide Reduction with Silane. Journal of Organic Chemistry, 2019, 84, 6084-6093.	3.2	34
22	Cobalt-Catalyzed Asymmetric Hydrogenation of Vinylsilanes with a Phosphineâ€“Pyridineâ€“Oxazoline Ligand: Synthesis of Optically Active Organosilanes and Silacycles. Organometallics, 2019, 38, 3906-3911.	2.3	26
23	A highly efficient cobalt-catalyzed deuterogenolysis of diboron: Synthesis of deuterated pinacolborane and vinylboronates. Tetrahedron, 2019, 75, 4138-4142.	1.9	8
24	Recent advances in tridentate iron and cobalt complexes for alkene and alkyne hydrofunctionalizations. Coordination Chemistry Reviews, 2019, 386, 138-153.	18.8	139
25	Cobalt-Catalyzed Regio- and Enantioselective Markovnikov 1,2-Hydrosilylation of Conjugated Dienes. ACS Catalysis, 2019, 9, 1612-1618.	11.2	89
26	Transfer Hydrogenation of Alkenes Using Ethanol Catalyzed by a NCP Pincer Iridium Complex: Scope and Mechanism. Journal of the American Chemical Society, 2018, 140, 4417-4429.	13.7	131
27	Thermal, Catalytic Conversion of Alkanes to Linear Aldehydes and Linear Amines. Journal of the American Chemical Society, 2018, 140, 4157-4163.	13.7	37
28	Cobalt-Catalyzed Hydroboration and Borylation of Alkenes and Alkynes. Synlett, 2018, 29, 1421-1429.	1.8	54
29	Asymmetric Synthesis of Siliconâ€Stereogenic Vinylhydrosilanes by Cobaltâ€Catalyzed Regioâ€and Enantioselective Alkyne Hydrosilylation with Dihydrosilanes. Angewandte Chemie, 2018, 130, 6427-6431.	2.0	60
30	Asymmetric Synthesis of Siliconâ€Stereogenic Vinylhydrosilanes by Cobaltâ€Catalyzed Regioâ€and Enantioselective Alkyne Hydrosilylation with Dihydrosilanes. Angewandte Chemie - International Edition, 2018, 57, 6319-6323.	13.8	136
31	Challenges and opportunities for alkane functionalisation using molecular catalysts. Chemical Science, 2018, 9, 288-299.	7.4	78
32	Mixed Diboration of Alkynes Catalyzed by LiOH: Regio- and Stereoselective Synthesis of cis-1,2-Diborylalkenes. Organic Letters, 2018, 20, 7363-7366.	4.6	32
33	A New Phosphineâ€Amineâ€Oxazoline Ligand for Ruâ€Catalyzed Asymmetric Hydrogenation of Nâ€Phosphinylimines. Chinese Journal of Chemistry, 2018, 36, 1151-1155.	4.9	10
34	Pincer Iridium and Ruthenium Complexes for Alkane Dehydrogenation. , 2018, , 383-399.		10
35	Advances in Base-Metal-Catalyzed Alkene Hydrosilylation. ACS Catalysis, 2017, 7, 1227-1243.	11.2	404
36	Pincer cobalt complex-catalyzed Z-selective hydrosilylation of terminal alkynes. Organic Chemistry Frontiers, 2017, 4, 1517-1521.	4.5	63

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37	An Agostic Iridium Pincer Complex as a Highly Efficient and Selective Catalyst for Monoisomerization of 1â€Alkenes to transâ€2â€Alkenes. Angewandte Chemie - International Edition, 2017, 56, 1614-1618.	13.8	76
38	An Agostic Iridium Pincer Complex as a Highly Efficient and Selective Catalyst for Monoisomerization of 1â€Alkenes to transâ€2â€Alkenes. Angewandte Chemie, 2017, 129, 1636-1640.	2.0	13
39	Pincer Ruthenium Catalyzed Intramolecular Silylation of C(sp2)â€“H Bonds. Synlett, 2017, 28, 2468-2472.	1.8	4
40	Manganese-Catalyzed Asymmetric Hydrosilylation of Aryl Ketones. ACS Omega, 2017, 2, 4688-4692.	3.5	45
41	Phosphine-Iminoquinoline Iron Complexes for Ethylene Polymerization and Copolymerization. Organometallics, 2017, 36, 3758-3764.	2.3	17
42	Ruthenium-Catalyzed Site-Selective Intramolecular Silylation of Primary Câ€“H Bonds for Synthesis of Sila-Heterocycles. Journal of the American Chemical Society, 2017, 139, 11601-11609.	13.7	62
43	Identifying a cobalt catalyst for highly selective hydrosilylation of allenes. Organic Chemistry Frontiers, 2017, 4, 1829-1832.	4.5	41
44	Stereoselective Synthesis of Trisubstituted Alkenes via Cobalt-Catalyzed Double Dehydrogenative Borylations of 1-Alkenes. ACS Catalysis, 2017, 7, 6419-6425.	11.2	93
45	Baseâ€“Metalâ€Catalyzed Regiodivergent Alkene Hydrosilylations. Angewandte Chemie - International Edition, 2016, 55, 6671-6675.	13.8	177
46	Baseâ€“Metalâ€Catalyzed Regiodivergent Alkene Hydrosilylations. Angewandte Chemie, 2016, 128, 6783-6787.	2.0	39
47	Cobalt-Catalyzed Borylation of Aryl Halides and Pseudohalides. Organometallics, 2016, 35, 1559-1564.	2.3	39
48	Catalytic alkane transfer-dehydrogenation by PSCOP iridium pincer complexes. Polyhedron, 2016, 116, 12-19.	2.2	27
49	A highly efficient catalytic Î±-alkylation of unactivated amides using primary alcohols. Tetrahedron Letters, 2016, 57, 2919-2921.	1.4	22
50	Cobaltâ€Catalyzed Alkyne Hydrosilylation and Sequential Vinylsilane Hydroboration with Markovnikov Selectivity. Angewandte Chemie - International Edition, 2016, 55, 10839-10843.	13.8	141
51	Efficient and selective degradation of polyethylenes into liquid fuels and waxes under mild conditions. Science Advances, 2016, 2, e1501591.	10.3	268
52	Cobaltâ€Catalyzed Alkyne Hydrosilylation and Sequential Vinylsilane Hydroboration with Markovnikov Selectivity. Angewandte Chemie, 2016, 128, 10997-11001.	2.0	96
53	A Pincer Ruthenium Complex for Regioselective Câ€“H Silylation of Heteroarenes. Organic Letters, 2016, 18, 5624-5627.	4.6	46
54	Synthesis of Pincer Hydrido Ruthenium Olefin Complexes for Catalytic Alkane Dehydrogenation. Organometallics, 2016, 35, 181-188.	2.3	53

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55	Synthesis of 1,1-diboronate esters by cobalt-catalyzed sequential hydroboration of terminal alkynes. Organic Chemistry Frontiers, 2016, 3, 434-438.	4.5	84
56	Conversion of alkanes to linear alkylsilanes using an iridiumâ€“iron-catalysed tandem dehydrogenationâ€“isomerizationâ€“hydrosilylation. Nature Chemistry, 2016, 8, 157-161.	13.6	175
57	A General, Practical Triethylboraneâ€Catalyzed Reduction of Carbonyl Functions to Alcohols. Chemistry - A European Journal, 2015, 21, 14737-14741.	3.3	26
58	Synthesis of 1,1,1-Tris(boronates) from Vinylarenes by Co-Catalyzed Dehydrogenative Borylationsâ€“Hydroboration. Journal of the American Chemical Society, 2015, 137, 15600-15603.	13.7	112
59	Iron-catalyzed asymmetric hydrosilylation of ketones. Chemical Communications, 2015, 51, 5073-5076.	4.1	77
60	A General and Mild Catalytic Î±â€Alkylation of Unactivated Esters Using Alcohols. Angewandte Chemie - International Edition, 2015, 54, 4023-4027.	13.8	60
61	Catalytic alkane dehydrogenations. Science Bulletin, 2015, 60, 1316-1331.	9.0	53
62	Synthesis and characterization of a tetradentate PNCP iridium complex for catalytic alkane dehydrogenation. Science China Chemistry, 2015, 58, 1340-1344.	8.2	8
63	A Cobaltâ€Catalyzed Alkene Hydroboration with Pinacolborane. Angewandte Chemie - International Edition, 2014, 53, 2696-2700.	13.8	213
64	Selective Catalytic Transfer Dehydrogenation of Alkanes and Heterocycles by an Iridium Pincer Complex. Angewandte Chemie - International Edition, 2014, 53, 1390-1394.	13.8	154
65	Cobalt-Catalyzed Enantioselective Hydroboration of 1,1-Disubstituted Aryl Alkenes. Journal of the American Chemical Society, 2014, 136, 15501-15504.	13.7	267
66	Iridium complexes of new NCP pincer ligands: catalytic alkane dehydrogenation and alkene isomerization. Chemical Communications, 2014, 50, 11056.	4.1	66
67	Selective synthesis of secondary benzylic (Z)-allylboronates by Fe-catalyzed 1,4-hydroboration of 1-aryl-substituted 1,3-dienes. Organic Chemistry Frontiers, 2014, 1, 1101-1106.	4.5	44
68	Cationic Palladium(II) Complexes of Phosphineâ€“Sulfonamide Ligands: Synthesis, Characterization, and Catalytic Ethylene Oligomerization. Organometallics, 2014, 33, 3738-3745.	2.3	42
69	Phosphinite-Iminopyridine Iron Catalysts for Chemoselective Alkene Hydrosilylation. Journal of the American Chemical Society, 2013, 135, 19154-19166.	13.7	202
70	Iron-Catalyzed Alkene Hydroboration with Pinacolborane. Synlett, 2013, 24, 1745-1747.	1.8	28
71	Iridium-Catalyzed Selective Î±-Alkylation of Unactivated Amides with Primary Alcohols. Organic Letters, 2013, 15, 1144-1147.	4.6	82
72	Ironâ€Catalyzed, Atomâ€Economical, Chemoâ€•and Regioselective Alkene Hydroboration with Pinacolborane. Angewandte Chemie - International Edition, 2013, 52, 3676-3680.	13.8	217

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73	Olefin Isomerization by Iridium Pincer Catalysts. Experimental Evidence for an Î·³-Allyl Pathway and an Unconventional Mechanism Predicted by DFT Calculations. Journal of the American Chemical Society, 2012, 134, 13276-13295.	13.7	117
74	Copper(I) Enolate Complexes in Î±â€Arylation Reactions: Synthesis, Reactivity, and Mechanism. Angewandte Chemie - International Edition, 2012, 51, 1028-1032.	13.8	71
75	Reactions of phosphinites with oxide surfaces: a new method for anchoring organic and organometallic complexes. Dalton Transactions, 2011, 40, 4268.	3.3	25
76	Efficient Heterogeneous Dual Catalyst Systems for Alkane Metathesis. Advanced Synthesis and Catalysis, 2010, 352, 125-135.	4.3	73
77	Ligand exchanges and selective catalytic hydrogenation in molecular single crystals. Nature, 2010, 465, 598-601.	27.8	160
78	Nâ^'H Activation of Hydrazines by Iridium(I). Double Nâ^'H Activation To Form Iridium Aminonitrene Complexes. Journal of the American Chemical Society, 2010, 132, 11458-11460.	13.7	52
79	Highly Active and Recyclable Heterogeneous Iridium Pincer Catalysts for Transfer Dehydrogenation of Alkanes. Advanced Synthesis and Catalysis, 2009, 351, 188-206.	4.3	120
80	Evaluation of Molybdenum and Tungsten Metathesis Catalysts for Homogeneous Tandem Alkane Metathesis. Organometallics, 2009, 28, 355-360.	2.3	74
81	Catalytic Alkane Metathesis by Tandem Alkane Dehydrogenation-Olefin Metathesis. Science, 2006, 312, 257-261.	12.6	515
82	Syntheses, Structure, and Properties of the Metal Complexes with 3-(2-Pyridyl)pyrazole-Based Ligands:â€‰ Tuning the Complex Structures by Ligand Modifications. Crystal Growth and Design, 2006, 6, 99-108.	3.0	44
83	Self-assembly of novel discrete binuclear molecular box structure from a novel bis-N,O-bidentate Schiff-base ligand and ZnII, CoII salts. Inorganic Chemistry Communication, 2005, 8, 194-198.	3.9	10
84	Coordination Polymers Assembled from Angular Dipyridyl Ligands and CuII, CdII, CoIISalts:Â Crystal Structures and Properties. Inorganic Chemistry, 2004, 43, 931-944.	4.0	135
85	Effect of Anions on the Framework Formation of Novel AgICoordination Polymers with Angular Bridging Ligands. Crystal Growth and Design, 2004, 4, 71-78.	3.0	81
86	From Metallacyclophanes to 1-D Coordination Polymers:Â Role of Anions in Self-Assembly Processes of Copper(II) and 2,5-Bis(3-pyridyl)-1,3,4-oxadiazole. Inorganic Chemistry, 2003, 42, 552-559.	4.0	99
87	Undirected, Asymmetric Alkyl Group Functionalizations through Alkane Dehydrogenation. Organic Letters, 0, , .	4.6	3
88	Dehydrogenation Based Asymmetric Epoxidation of Arylalkanes to Chiral Epoxides. Chinese Journal of Chemistry, 0, , .	4.9	7