Wei Han

List of Publications by Year
in descending order

42 papers	1,887 citations	279798 23 h-index	254184 43 g-index
65 all docs	65 docs citations	65 times ranked	2014 citing authors

#	Article	IF	Citations
1	Palladiumâ€Catalyzed Dehydrogenative Crossâ€Couplings of Benzazoles with Azoles. Angewandte Chemie - International Edition, 2011, 50, 2178-2182.	13.8	183
2	Iron catalyzed oxidative cyanation of tertiary amines. Chemical Communications, 2009, , 5024.	4.1	168
3	In Situ Generation of Palladium Nanoparticles:â€‰ A Simple and Highly Active Protocol for Oxygen-Promoted Ligand-Free Suzuki Coupling Reaction of Aryl Chlorides. Organic Letters, 2007, 9, 4005-4007.	4.6	150
4	Ironâ€Catalyzed Oxidative Monoâ€and Bisâ€Phosphonation of N,Nâ€Dialkylanilines. Advanced Synthesis and Catalysis, 2010, 352, 1667-1676.	4.3	125
5	Aerobic Ligandâ€Free Suzuki Coupling Reaction of Aryl Chlorides Catalyzed by In Situ Generated Palladium Nanoparticles at Room Temperature. Advanced Synthesis and Catalysis, 2008, 350, 501-508.	4.3	112
6	Iron-catalyzed dehydrogenative phosphonation of N,N-dimethylanilines. Chemical Communications, 2009, , 6023.	4.1	105
7	In Situ Generation of Palladium Nanoparticles: Ligand-Free Palladium Catalyzed Pivalic Acid Assisted Carbonylative Suzuki Reactions at Ambient Conditions. Journal of Organic Chemistry, 2014, 79, 1454-1460.	3.2	102
8	Wackerâ€Type Oxidation Using an Iron Catalyst and Ambient Air: Application to Lateâ€Stage Oxidation of Complex Molecules. Angewandte Chemie - International Edition, 2017, 56, 12712-12717.	13.8	76
9	Bio-inspired iron-catalyzed oxidation of alkylarenes enables late-stage oxidation of complex methylarenes to arylaldehydes. Nature Communications, 2019, 10, 2425.	12.8	64
10	Palladiumâ€Catalyzed Direct Arylations of Azoles with Aryl Silicon and Tin Reagents. Chemistry - A European Journal, 2011, 17, 6904-6908.	3.3	61
11	Iron-catalyzed carbonylative Suzuki reactions under atmospheric pressure of carbon monoxide. Chemical Communications, 2014, 50, 3874-3877.	4.1	56
12	Iron-catalyzed arene Câ^'H hydroxylation. Science, 2021, 374, 77-81.	12.6	55
13	Iron-catalyzed carbonylation of aryl halides with arylborons using stoichiometric chloroform as the carbon monoxide source. Green Chemistry, 2016, 18, 5782-5787.	9.0	52
14	One-step synthesis and catalytic properties of porous palladium nanospheres. Journal of Materials Chemistry, 2012, 22, 17604.	6.7	50
15	A ligand-free Heck reaction catalyzed by the in situ-generated palladium nanoparticles in PEG-400. Chinese Chemical Letters, 2010, 21, 1411-1414.	9.0	40
16	Ligand-Free Pd-Catalyzed Double Carbonylation of Aryl Iodides with Amines to Î±-Ketoamides under Atmospheric Pressure of Carbon Monoxide and at Room Temperature. Journal of Organic Chemistry, 2015, 80, 7816-7823.	3.2	40
17	Ironâ€Catalyzed Generation of Î±â€Amino Nitriles from Tertiary Amines. Advanced Synthesis and Catalysis, 2013, 355, 3058-3070.	4.3	37
18	Nickel-catalyzed remote and proximal Wacker-type oxidation. Communications Chemistry, 2019, 2, .	4.5	36

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19	Copper Powder Catalyzed Direct Ringâ€Opening Arylation of Benzazoles with Aryl Iodides in Polyethylene Glycol. European Journal of Organic Chemistry, 2012, 2012, 6856-6860.	2.4	30
20	Transition-metal-free, ambient-pressure carbonylative cross-coupling reactions of aryl halides with potassium aryltrifluoroborates. Chemical Communications, 2015, 51, 9133-9136.	4.1	29
21	In situ generated nickel nanoparticle-catalyzed carbonylative Suzuki reactions of aryl iodides with arylboronic acids at ambient CO pressure in poly(ethylene glycol). RSC Advances, 2014, 4, 63216-63220.	3.6	28
22	Copper-catalyzed carbonylative Suzuki coupling of aryl iodides with arylboronic acids under ambient pressure of carbon monoxide. RSC Advances, 2014, 4, 44312-44316.	3.6	24
23	Acid-Free Silver-Catalyzed Cross-Dehydrogenative Carbamoylation of Pyridines with Formamides. Synlett, 2016, 27, 1854-1859.	1.8	24
24	Transition metal-free, iodide-mediated domino carbonylationâ€“benzylation of benzyl chlorides with arylboronic acids under ambient pressure of carbon monoxide. Green Chemistry, 2016, 18, 2598-2603.	9.0	21
25	Iron-catalyzed oxidative Câ€“C(vinyl) Ïƒ-bond cleavage of allylarenes to aryl aldehydes at room temperature with ambient air. Chemical Communications, 2019, 55, 4817-4820.	4.1	21
26	Unexpected hydrazine hydrate-mediated aerobic oxidation of aryl/ heteroaryl boronic acids to phenols in ambient air. RSC Advances, 2014, 4, 33164-33167.	3.6	19
27	Transition-metal-free carbonylation of aryl halides with arylboronic acids by utilizing stoichiometric CHCl₃ as the carbon monoxide-precursor. Green Chemistry, 2019, 21, 2911-2915.	9.0	17
28	Ligandless Palladium-Catalyzed Reductive Carbonylation of Aryl Iodides under Ambient Conditions. Synlett, 2017, 28, 835-840.	1.8	14
29	No Detours: Palladium-Catalyzed Oxidative C-H/C-H Cross-Couplings of Heteroarenes. Synlett, 2011, 2011, 1951-1955.	1.8	12
30	Ligand-Free Palladium-Catalyzed Hydroxycarbonylation of Aryl Halides under Ambient Conditions: Synthesis of Aromatic Carboxylic Acids and Aromatic Esters. Synthesis, 2015, 47, 1861-1868.	2.3	12
31	Wackerâ€Type Oxidation Using an Iron Catalyst and Ambient Air: Application to Lateâ€Stage Oxidation of Complex Molecules. Angewandte Chemie, 2017, 129, 12886-12891.	2.0	11
32	Transitionâ€Metalâ€Free Carbonylative Suzukiâ€Miyaura Reactions of Aryl Iodides with Arylboronic Acids Using Nâ€Formylsaccharin as CO Surrogate. Advanced Synthesis and Catalysis, 2019, 361, 3102-3107.	4.3	11
33	Iron-Catalyzed Wacker-Type Oxidation. Synlett, 2018, 29, 383-387.	1.8	9
34	Iron-catalyzed domino decarboxylation-oxidation of Î±,Î²-unsaturated carboxylic acids enabled aldehyde Câ€“H methylation. Chemical Communications, 2021, 57, 5905-5908.	4.1	9
35	Ligandâ€Free Palladiumâ€Catalyzed Oxidative Carbonylative Homocoupling of Arylboron Reagents at Ambient Pressure. European Journal of Organic Chemistry, 2016, 2016, 4279-4283.	2.4	8
36	Iron-Catalyzed Direct Cross-Coupling of Ethers and Thioether with Alcohols for the Synthesis of Mixed Acetals. Synlett, 2020, 31, 1400-1403.	1.8	8

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37	Iodide-Catalyzed Carbonylationâ€“Benzylation of Benzyl Chlorides with Potassium Aryltrifluoroborates under Ambient Pressure of Carbon Monoxide. Synlett, 2018, 29, 369-374.	1.8	6
38	Research Progress in Transition-Metal-Free Carbonylation Reactions. Chinese Journal of Organic Chemistry, 2018, 38, 2519.	1.3	4
39	Ligand-Free Palladium-Catalyzed Carbonylative Suzuki Couplings of Vinyl Iodides with Arylboronic Acids under Substoichiometric Base Conditions. Synlett, 2021, 32, 1207-1212.	1.8	3
40	trans-1-Phenylpyrrolidine-2,5-dicarbonitrile. Acta Crystallographica Section E: Structure Reports Online, 2010, 66, o379-o379.	0.2	2
41	Palladium-Catalyzed Aerobic Oxidative Carbonylation of Amines Enables the Synthesis of Unsymmetrical N,Nâ€²-Disubstituted Ureas. Synlett, 2021, 32, 1223-1226.	1.8	1
42	Analysis and design for constant current/constant voltage multiâ€coil wireless power transfer system with high EMF reduction. IET Power Electronics, 2022, 15, 1144-1157.	2.1	1