Kai Chen

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.

46 papers	3,345 citations	30 h-index	57 g-index
61 ext. papers	3,978 ext. citations	12.3 avg, IF	6.23 L-index

#	Paper	IF	Citations
46	Engineering Enzymes for New-to-Nature Carbene Chemistry **2022**, 95-138		1
45	Dual-function enzyme catalysis for enantioselective carbon-nitrogen bond formation. *Nature Chemistry*, **2021**, 13, 1166-1172	17.6	10
44	Interwrapping Distinct Metal-Organic Frameworks in Dual-MOFs for the Creation of Unique Composite Catalysts. *Research*, **2021**, 2021, 9835935	7.8	2
43	Engineering Cytochrome P450s for Enantioselective Cyclopropenation of Internal Alkynes. *Journal of the American Chemical Society*, **2020**, 142, 6891-6895	16.4	37
42	Nickel(II)/N-Heterocyclic Carbene Catalyzed Desulfinylative Arylation by C–S Cleavage of Aryl Sulfoxides with Phenylboronic Acids. *Advanced Synthesis and Catalysis*, **2020**, 362, 4373-4377	5.6	4
41	Sequential C-S and S-N Coupling Approach to Sulfonamides. *Organic Letters*, **2020**, 22, 1841-1845	6.2	41
40	Engineering new catalytic activities in enzymes. *Nature Catalysis*, **2020**, 3, 203-213	36.5	230
39	Enzymatic Lactone-Carbene C–H Insertion to Build Contiguous Chiral Centers. *ACS Catalysis*, **2020**, 10, 5393-5398	13.1	20
38	In Situ Generation and Stabilization of Accessible Cu/Cu2O Heterojunctions inside Organic Frameworks for Highly Efficient Catalysis. *Angewandte Chemie*, **2020**, 132, 1941-1947	3.6	11
37	In Situ Generation and Stabilization of Accessible Cu/Cu O Heterojunctions inside Organic Frameworks for Highly Efficient Catalysis. *Angewandte Chemie - International Edition*, **2020**, 59, 1925-1931	16.4	40
36	Suspending Ion Electrocatalysts in Charged Metal-Organic Frameworks to Improve the Conductivity and Selectivity in Electroorganic Synthesis. *Chemistry - an Asian Journal*, **2019**, 14, 3627-3634	4.5	8
35	Directed Evolution of a Cytochrome P450 Carbene Transferase for Selective Functionalization of Cyclic Compounds. *Journal of the American Chemical Society*, **2019**, 141, 8989-8995	16.4	65
34	Transformation of Metal-Organic Frameworks into Stable Organic Frameworks with Inherited Skeletons and Catalytic Properties. *Angewandte Chemie*, **2019**, 131, 8203-8207	3.6	5
33	Transformation of Metal-Organic Frameworks into Stable Organic Frameworks with Inherited Skeletons and Catalytic Properties. *Angewandte Chemie - International Edition*, **2019**, 58, 8119-8123	16.4	24
32	Well-Designed N-Heterocyclic Carbene Ligands for Palladium-Catalyzed Denitrative C–N Coupling of Nitroarenes with Amines. *ACS Catalysis*, **2019**, 9, 8110-8115	13.1	25
31	Sterically hindered N-heterocyclic carbene/palladium(ii) catalyzed Suzuki-Miyaura coupling of nitrobenzenes. *Chemical Communications*, **2019**, 55, 9287-9290	5.8	33
30	Enzymatic assembly of carbon-carbon bonds via iron-catalysed sp C-H functionalization. *Nature*, **2019**, 565, 67-72	50.4	145

29	Engineered Cytochrome -Catalyzed Lactone-Carbene B-H Insertion. *Synlett*, **2019**, 30, 378-382	2.2	16
28	Diverse Engineered Heme Proteins Enable Stereodivergent Cyclopropanation of Unactivated Alkenes. *ACS Central Science*, **2018**, 4, 372-377	16.8	80
27	Stereoselective Enzymatic Synthesis of Heteroatom-Substituted Cyclopropanes. *ACS Catalysis*, **2018**, 8, 2629-2634	13.1	68
26	Copper Mediated Three-Component Reactions of Alkynes, Azides, and Propargylic Carbonates: Synthesis of 5-Allenyl-1,2,3-Triazoles. *Advanced Synthesis and Catalysis*, **2018**, 360, 2435-2439	5.6	11
25	Enzymatic construction of highly strained carbocycles. *Science*, **2018**, 360, 71-75	33.3	134
24	Manganese-Catalyzed Sequential Annulation between Indoles and 1, 6-Diynes. *Advanced Synthesis and Catalysis*, **2018**, 360, 4497-4501	5.6	8
23	Alternate Heme Ligation Steers Activity and Selectivity in Engineered Cytochrome P450-Catalyzed Carbene-Transfer Reactions. *Journal of the American Chemical Society*, **2018**, 140, 16402-16407	16.4	75
22	Palladium-catalyzed interannular meta-C-H arylation. *Chemical Communications*, **2017**, 53, 2166-2169	5.8	32
21	Palladium-catalyzed sequential monoarylation/amidation of C(sp)-H bonds: stereoselective synthesis of □amino-□lactams and anti-□□diamino acid. *Chemical Communications*, **2017**, 53, 6351-6354	5.8	31
20	Genetically programmed chiral organoborane synthesis. *Nature*, **2017**, 552, 132-136	50.4	170
19	Directed evolution of cytochrome c for carbon-silicon bond formation: Bringing silicon to life. *Science*, **2016**, 354, 1048-1051	33.3	345
18	Stereoselective alkoxycarbonylation of unactivated C(sp3)-H bonds with alkyl chloroformates via Pd(II)/Pd(IV) catalysis. *Nature Communications*, **2016**, 7, 12901	17.4	55
17	Synthesis of chiral □hydroxy acids via palladium-catalyzed C(sp(3))-H alkylation of lactic acid. *Chemical Communications*, **2016**, 52, 1915-8	5.8	21
16	Palladium-catalyzed C(sp3)□H arylation of lactic acid: efficient synthesis of chiral □aryl-□hydroxy acids. *Organic Chemistry Frontiers*, **2016**, 3, 204-208	5.2	15
15	Divergent and Stereoselective Synthesis of □Silyl-□Amino Acids through Palladium-Catalyzed Intermolecular Silylation of Unactivated Primary and Secondary C□H Bonds. *Angewandte Chemie*, **2016**, 128, 14063-14066	3.6	32
14	Divergent and Stereoselective Synthesis of □Silyl-□Amino Acids through Palladium-Catalyzed Intermolecular Silylation of Unactivated Primary and Secondary C-H Bonds. *Angewandte Chemie - International Edition*, **2016**, 55, 13859-13862	16.4	102
13	Pd(II)-Catalyzed Direct Sulfonylation of Unactivated C(sp(3))-H Bonds with Sodium Sulfinates. *Organic Letters*, **2015**, 17, 3552-5	6.2	94
12	Palladium-Catalyzed Arylation of Unactivated □-Methylene C(sp(3))-H and □C-H Bonds with an Oxazoline-Carboxylate Auxiliary. *Chemistry - A European Journal*, **2015**, 21, 17503-7	4.8	50

11	Stereoselective Synthesis of Chiral Fluoro Amino Acids via Pd(II)-Catalyzed Fluorination of Unactivated Methylene C(sp(3))-H Bonds: Scope and Mechanistic Studies. *Journal of the American Chemical Society*, **2015**, 137, 8219-26	16.4	153
10	Practical synthesis of anti-hydroxy-amino acids by Pd(II) -catalyzed sequential C(sp(3))-H functionalization. *Chemistry - A European Journal*, **2015**, 21, 3264-70	4.8	50
9	Sulfonamide-promoted palladium(II)-catalyzed alkylation of unactivated methylene C(sp3)-H bonds with alkyl iodides. *Angewandte Chemie - International Edition*, **2014**, 53, 11950-4	16.4	124
8	A general and practical palladium-catalyzed monoarylation of methyl C(sp)-H of alanine. *Chemical Communications*, **2014**, 50, 13924-7	5.8	71
7	Sulfonamide-Promoted Palladium(II)-Catalyzed Alkylation of Unactivated Methylene C(sp3)?H Bonds with Alkyl Iodides. *Angewandte Chemie*, **2014**, 126, 12144-12148	3.6	34
6	Recent Progress in the Synthesis of Functionalized Lactams through Transition-Metal-Catalyzed C(sp3)H Amidation. *Synlett*, **2014**, 25, 1941-1945	2.2	32
5	Pd(II)-catalyzed alkoxylation of unactivated C(sp3)H and C(sp2)H bonds using a removable directing group: efficient synthesis of alkyl ethers. *Chemical Science*, **2013**, 4, 4187	9.4	253
4	Pd(II)-catalyzed alkylation of unactivated C(sp3)H bonds: efficient synthesis of optically active unnatural amino acids. *Chemical Science*, **2013**, 4, 3906	9.4	183
3	Stereoselective synthesis of chiral amino-lactams through palladium(II)-catalyzed sequential monoarylation/amidation of C(sp(3))-H bonds. *Angewandte Chemie - International Edition*, **2013**, 52, 13588-92	16.4	294
2	Stereoselective Synthesis of Chiral Amino-Lactams through Palladium(II)-Catalyzed Sequential Monoarylation/Amidation of C(sp3)?H Bonds. *Angewandte Chemie*, **2013**, 125, 13833-13837	3.6	96
1	Synthesis of benzoxazine and 1,3-oxazine derivatives via ligand-free copper(I)-catalyzed one-pot cascade addition/cyclization reaction. *Tetrahedron*, **2012**, 68, 166-172	2.4	14