

Kai Chen

List of Publications by Citations

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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	Directed evolution of cytochrome c for carbon-silicon bond formation: Bringing silicon to life. <i>Science</i> , 2016 , 354, 1048-1051	33.3	345
45	Stereoselective synthesis of chiral β -amino-lactams through palladium(II)-catalyzed sequential monoarylation/amidation of C(sp ³)-H bonds. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 13588-92	16.4	294
44	Pd(II)-catalyzed alkoxylation of unactivated C(sp ³)-H and C(sp ²)-H bonds using a removable directing group: efficient synthesis of alkyl ethers. <i>Chemical Science</i> , 2013 , 4, 4187	9.4	253
43	Engineering new catalytic activities in enzymes. <i>Nature Catalysis</i> , 2020 , 3, 203-213	36.5	230
42	Pd(II)-catalyzed alkylation of unactivated C(sp ³)-H bonds: efficient synthesis of optically active unnatural β -amino acids. <i>Chemical Science</i> , 2013 , 4, 3906	9.4	183
41	Genetically programmed chiral organoborane synthesis. <i>Nature</i> , 2017 , 552, 132-136	50.4	170
40	Stereoselective Synthesis of Chiral β -Fluoro β -Amino Acids via Pd(II)-Catalyzed Fluorination of Unactivated Methylene C(sp ³)-H Bonds: Scope and Mechanistic Studies. <i>Journal of the American Chemical Society</i> , 2015 , 137, 8219-26	16.4	153
39	Enzymatic assembly of carbon-carbon bonds via iron-catalysed sp C-H functionalization. <i>Nature</i> , 2019 , 565, 67-72	50.4	145
38	Enzymatic construction of highly strained carbocycles. <i>Science</i> , 2018 , 360, 71-75	33.3	134
37	Sulfonamide-promoted palladium(II)-catalyzed alkylation of unactivated methylene C(sp ³)-H bonds with alkyl iodides. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 11950-4	16.4	124
36	Divergent and Stereoselective Synthesis of β -Silyl β -Amino Acids through Palladium-Catalyzed Intermolecular Silylation of Unactivated Primary and Secondary C-H Bonds. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 13859-13862	16.4	102
35	Stereoselective Synthesis of Chiral β -Amino-lactams through Palladium(II)-Catalyzed Sequential Monoarylation/Amidation of C(sp ³)-H Bonds. <i>Angewandte Chemie</i> , 2013 , 125, 13833-13837	3.6	96
34	Pd(II)-Catalyzed Direct Sulfonylation of Unactivated C(sp ³)-H Bonds with Sodium Sulfinates. <i>Organic Letters</i> , 2015 , 17, 3552-5	6.2	94
33	Diverse Engineered Heme Proteins Enable Stereodivergent Cyclopropanation of Unactivated Alkenes. <i>ACS Central Science</i> , 2018 , 4, 372-377	16.8	80
32	Alternate Heme Ligation Steers Activity and Selectivity in Engineered Cytochrome P450-Catalyzed Carbene-Transfer Reactions. <i>Journal of the American Chemical Society</i> , 2018 , 140, 16402-16407	16.4	75
31	A general and practical palladium-catalyzed monoarylation of β -methyl C(sp ³)-H of alanine. <i>Chemical Communications</i> , 2014 , 50, 13924-7	5.8	71
30	Stereoselective Enzymatic Synthesis of Heteroatom-Substituted Cyclopropanes. <i>ACS Catalysis</i> , 2018 , 8, 2629-2634	13.1	68

29	Directed Evolution of a Cytochrome P450 Carbene Transferase for Selective Functionalization of Cyclic Compounds. <i>Journal of the American Chemical Society</i> , 2019 , 141, 8989-8995	16.4	65
28	Stereoselective alkoxyacylation of unactivated C(sp ³)-H bonds with alkyl chloroformates via Pd(II)/Pd(IV) catalysis. <i>Nature Communications</i> , 2016 , 7, 12901	17.4	55
27	Palladium-Catalyzed Arylation of Unactivated β -Methylene C(sp ³)-H and β -C-H Bonds with an Oxazoline-Carboxylate Auxiliary. <i>Chemistry - A European Journal</i> , 2015 , 21, 17503-7	4.8	50
26	Practical synthesis of anti- β -hydroxy- β -amino acids by Pd(II)-catalyzed sequential C(sp ³)-H functionalization. <i>Chemistry - A European Journal</i> , 2015 , 21, 3264-70	4.8	50
25	Sequential C-S and S-N Coupling Approach to Sulfonamides. <i>Organic Letters</i> , 2020 , 22, 1841-1845	6.2	41
24	In Situ Generation and Stabilization of Accessible Cu/Cu ₂ O Heterojunctions inside Organic Frameworks for Highly Efficient Catalysis. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 1925-1931	16.4	40
23	Engineering Cytochrome P450s for Enantioselective Cyclopropanation of Internal Alkynes. <i>Journal of the American Chemical Society</i> , 2020 , 142, 6891-6895	16.4	37
22	Sulfonamide-Promoted Palladium(II)-Catalyzed Alkylation of Unactivated Methylene C(sp ³)-H Bonds with Alkyl Iodides. <i>Angewandte Chemie</i> , 2014 , 126, 12144-12148	3.6	34
21	Sterically hindered N-heterocyclic carbene/palladium(ii) catalyzed Suzuki-Miyaura coupling of nitrobenzenes. <i>Chemical Communications</i> , 2019 , 55, 9287-9290	5.8	33
20	Palladium-catalyzed interannular meta-C-H arylation. <i>Chemical Communications</i> , 2017 , 53, 2166-2169	5.8	32
19	Recent Progress in the Synthesis of Functionalized β -Lactams through Transition-Metal-Catalyzed C(sp ³)-H Amidation. <i>Synlett</i> , 2014 , 25, 1941-1945	2.2	32
18	Divergent and Stereoselective Synthesis of β -Silyl- β -Amino Acids through Palladium-Catalyzed Intermolecular Silylation of Unactivated Primary and Secondary C-H Bonds. <i>Angewandte Chemie</i> , 2016 , 128, 14063-14066	3.6	32
17	Palladium-catalyzed sequential monoarylation/amidation of C(sp ³)-H bonds: stereoselective synthesis of β -amino- β -lactams and anti- β -diamino acid. <i>Chemical Communications</i> , 2017 , 53, 6351-6354	5.8	31
16	Well-Designed N-Heterocyclic Carbene Ligands for Palladium-Catalyzed Denitrative C-N Coupling of Nitroarenes with Amines. <i>ACS Catalysis</i> , 2019 , 9, 8110-8115	13.1	25
15	Transformation of Metal-Organic Frameworks into Stable Organic Frameworks with Inherited Skeletons and Catalytic Properties. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 8119-8123	16.4	24
14	Synthesis of chiral β -hydroxy acids via palladium-catalyzed C(sp ³)-H alkylation of lactic acid. <i>Chemical Communications</i> , 2016 , 52, 1915-8	5.8	21
13	Enzymatic Lactone-Carbene C-H Insertion to Build Contiguous Chiral Centers. <i>ACS Catalysis</i> , 2020 , 10, 5393-5398	13.1	20
12	Engineered Cytochrome P450-Catalyzed Lactone-Carbene C-H Insertion. <i>Synlett</i> , 2019 , 30, 378-382	2.2	16

11	Palladium-catalyzed C(sp ³) arylation of lactic acid: efficient synthesis of chiral β-aryl-β-hydroxy acids. <i>Organic Chemistry Frontiers</i> , 2016 , 3, 204-208	5.2	15
10	Synthesis of benzoxazine and 1,3-oxazine derivatives via ligand-free copper(I)-catalyzed one-pot cascade addition/cyclization reaction. <i>Tetrahedron</i> , 2012 , 68, 166-172	2.4	14
9	Copper Mediated Three-Component Reactions of Alkynes, Azides, and Propargylic Carbonates: Synthesis of 5-Allenyl-1,2,3-Triazoles. <i>Advanced Synthesis and Catalysis</i> , 2018 , 360, 2435-2439	5.6	11
8	In Situ Generation and Stabilization of Accessible Cu/Cu ₂ O Heterojunctions inside Organic Frameworks for Highly Efficient Catalysis. <i>Angewandte Chemie</i> , 2020 , 132, 1941-1947	3.6	11
7	Dual-function enzyme catalysis for enantioselective carbon-nitrogen bond formation. <i>Nature Chemistry</i> , 2021 , 13, 1166-1172	17.6	10
6	Suspending Ion Electrocatalysts in Charged Metal-Organic Frameworks to Improve the Conductivity and Selectivity in Electroorganic Synthesis. <i>Chemistry - an Asian Journal</i> , 2019 , 14, 3627-3634	4.5	8
5	Manganese-Catalyzed Sequential Annulation between Indoles and 1, 6-Diynes. <i>Advanced Synthesis and Catalysis</i> , 2018 , 360, 4497-4501	5.6	8
4	Transformation of Metal-Organic Frameworks into Stable Organic Frameworks with Inherited Skeletons and Catalytic Properties. <i>Angewandte Chemie</i> , 2019 , 131, 8203-8207	3.6	5
3	Nickel(II)/N-Heterocyclic Carbene Catalyzed Desulfinylative Arylation by C-S Cleavage of Aryl Sulfoxides with Phenylboronic Acids. <i>Advanced Synthesis and Catalysis</i> , 2020 , 362, 4373-4377	5.6	4
2	Interwrapping Distinct Metal-Organic Frameworks in Dual-MOFs for the Creation of Unique Composite Catalysts. <i>Research</i> , 2021 , 2021, 9835935	7.8	2
1	Engineering Enzymes for New-to-Nature Carbene Chemistry 2022 , 95-138		1