Hu Cai

List of Publications by Year in Descending Order

60 papers	1,040 citations	15 h-index	31 g-index
63 ext. papers	1,343 ext. citations	4.9 avg, IF	4.54 L-index

#	Paper	IF	Citations
60	ortho-C□H Bond Functionalization of Carboxylic Acid Using Carboxyl as a Traceless Directing Group Based on the Strategy of □wo Birds with One Stone□*Chinese Journal of Organic Chemistry*, **2022**, 42, 67	3	2
59	An electrochemical method for deborylative selenylation of arylboronic acids under metal- and oxidant-free conditions. *Green Chemistry*, **2022**, 24, 130-135	10	3
58	Electrochemical Synthesis of Aryl Sulfonates from Sodium Sulfinates and Phenols under Metal-Free Conditions. *Chinese Journal of Organic Chemistry*, **2022**, 42, 600	3	
57	Electrochemical strategies for N-cyanation of secondary amines and □ C-cyanation of tertiary amines under transition metal-free conditions. *Green Chemistry*, **2021**, 23, 9422-9427	10	2
56	High-Temperature Switchable Nonlinear Optical and Dielectric Material Revealed by Molecular Modification. *Chemistry of Materials*, **2021**, 33, 3081-3086	9.6	4
55	Synthesis of (□)-3,3?-diphenyl-2,2?-binaphthol via different routes using Pd and Ni as catalyst respectively. *Chemical Papers*, **2021**, 75, 831-836	1.9	
54	Ag/Cu-Mediated Decarboxylative Cyanation of Arene Carboxylic Acids Using NH4 +/N,N-Dimethylformamide as Combined Cyanide Source. *Chinese Journal of Organic Chemistry*, **2021**, 41, 333	3	2
53	Electrochemical Radical Selenylation of Alkenes and Arenes via Se-Se Bond Activation. *Organic Letters*, **2021**, 23, 7724-7729	6.2	5
52	The Role of Fluorine-Substituted Positions on the Phase Transition in Organic-Inorganic Hybrid Perovskite Compounds. *Inorganic Chemistry*, **2021**, 60, 14706-14712	5.1	0
51	DMSO/-BuONa/O-Mediated Aerobic Dehydrogenation of Saturated -Heterocycles. *Journal of Organic Chemistry*, **2020**, 85, 7501-7509	4.2	12
50	Potassium Carbonate Promoted Nucleophilic Addition of Alkenes with Phosphites. *Synlett*, **2020**, 31, 1295-1297	2.2	5
49	The templating effect of 1,2-cyclohexanediamine configuration on iodoplumbate organic□inorganic hybrid structures. *Journal of Coordination Chemistry*, **2020**, 73, 417-428	1.6	3
48	An electrochemical method for deborylative seleno/thiocyanation of arylboronic acids under catalyst- and oxidant-free conditions. *Green Chemistry*, **2020**, 22, 1559-1564	10	25
47	Rational Design of Ceramic-Like Molecular Ferroelectric by Quasi-Spherical Theory. *Journal of the American Chemical Society*, **2020**, 142, 1995-2000	16.4	23
46	Electrochemical selenation of phosphonates and phosphine oxides. *Tetrahedron Letters*, **2020**, 61, 151566	2	4
45	Transition metal-free electrocatalytic halodeborylation of arylboronic acids with metal halides MX (X = I, Br) to synthesize aryl halides. *Organic Chemistry Frontiers*, **2020**, 7, 590-595	5.2	16
44	Conversions of aryl carboxylic acids into aryl nitriles using multiple types of Cu-mediated decarboxylative cyanation under aerobic conditions. *Organic and Biomolecular Chemistry*, **2020**, 18, 8381-8385	3.9	4

43	Environmentally sustainable production and application of acyl phosphates. *Green Chemistry*, **2020**, 22, 7343-7347	10	6
42	Selective C-C bond cleavage of amides fused to 8-aminoquinoline controlled by a catalyst and an oxidant. *Chemical Communications*, **2020**, 56, 13820-13823	5.8	4
41	A square-pyramidal coordinated copper(II) hydrazine dimeric complex showing reversible phase transition, dielectric anomaly and thermochromism. *New Journal of Chemistry*, **2020**, 44, 21288-21292	3.6	3
40	Regioselective C3-Phosphonation of Free Indoles via Transition-Metal-Free Radical/Hydrolysis Cascade. *European Journal of Organic Chemistry*, **2019**, 2019, 1808-1814	3.2	8
39	Dichloromethane as a methylene synthon for regioselective linkage of diverse carboxylic acids: Direct access to methylene diesters under metal-free conditions. *Chinese Chemical Letters*, **2019**, 30, 1173-1177	8.1	6
38	Pd-Catalyzed Decarboxylative Ortho-Halogenation of Aryl Carboxylic Acids with Sodium Halide NaX Using Carboxyl as a Traceless Directing Group. *Organic Letters*, **2019**, 21, 3003-3007	6.2	11
37	Fe-Catalyzed Bisphosphorylation of Amino-2-en-1-ones with Trialkyl Phosphites. *Synlett*, **2019**, 30, 1090-1094	2.2	2
36	Facile synthesis of methylthiomethyl esters through Pummerer-type rearrangement of carboxylic acids and DMSO under metal-free conditions. *Synthetic Communications*, **2019**, 49, 950-958	1.7	2
35	Ag/Cu-mediated decarboxylative cyanation of aryl carboxylic acids with K4Fe(CN)6 under aerobic conditions. *Synthetic Communications*, **2019**, 49, 917-924	1.7	2
34	Acid and 1, 2-Dichloroethane Co-Promoted Substitution of the Amino Groups in Gramine and its Analogues with Trialkyl Phosphites. *ChemistrySelect*, **2019**, 4, 14111-14113	1.8	0
33	Metal-free synthesis of 1, -ethenoadenines from -propargyl-adenines NIS mediated radical cascade reaction.. *RSC Advances*, **2019**, 9, 38897-38901	3.7	
32	Innenr□ktitelbild: The Narrowest Band Gap Ever Observed in Molecular Ferroelectrics: Hexane-1,6-diammonium Pentaiodobismuth(III) (Angew. Chem. 2/2018). *Angewandte Chemie*, **2018**, 130, 603-603	3.6	
31	The Narrowest Band Gap Ever Observed in Molecular Ferroelectrics: Hexane-1,6-diammonium Pentaiodobismuth(III). *Angewandte Chemie*, **2018**, 130, 535-539	3.6	23
30	Copper-Catalyzed C2 and C3 Phosphonation of Benzofuran and Benzothiophene with Trialkyl Phosphites. *ChemCatChem*, **2018**, 10, 716-719	5.2	15
29	Metal-free three-dimensional perovskite ferroelectrics. *Science*, **2018**, 361, 151-155	33.3	360
28	Convenient sulfonylation of imidazoles and triazoles using NFSI. *Journal of Sulfur Chemistry*, **2018**, 39, 465-471	2.3	6
27	Discovery of an Antiperovskite Ferroelectric in [(CH)NH](MnBr)(MnBr). *Journal of the American Chemical Society*, **2018**, 140, 8110-8113	16.4	59
26	The Narrowest Band Gap Ever Observed in Molecular Ferroelectrics: Hexane-1,6-diammonium Pentaiodobismuth(III). *Angewandte Chemie - International Edition*, **2018**, 57, 526-530	16.4	59

25	Nucleophile-controlled mono- and bis-phosphonation of amino-2-en-1-ones via catalyst-free C(sp3)–N bond cleavage. *Organic Chemistry Frontiers*, **2018**, 5, 3548-3552	5.2	7
24	Cu-catalyzed decarboxylative iodination of aryl carboxylic acids with NaI: A practical entry to aryl iodides under aerobic conditions. *Tetrahedron Letters*, **2018**, 59, 4458-4461	2	12
23	Series of 2D multilayered perovskites constructed by slicing the 3D [(CH3NH3)PbI3] with 4-fluorobenzylamine. *Inorganic Chemistry Communication*, **2018**, 97, 134-138	3.1	6
22	Inexpensive NaX (X = I, Br, Cl) as a halogen donor in the practical Ag/Cu-mediated decarboxylative halogenation of aryl carboxylic acids under aerobic conditions. *Organic and Biomolecular Chemistry*, **2018**, 16, 5416-5421	3.9	13
21	Selective Phosphoramidation and Phosphonation of Benzoxazoles via Sequence Control. *Organic Letters*, **2017**, 19, 2242-2245	6.2	9
20	Reversible solid-state thermochromism of a 2D organic–inorganic hybrid perovskite structure based on iodoplumbate and 2-aminomethyl-pyridine. *New Journal of Chemistry*, **2017**, 41, 9586-9589	3.6	18
19	Rapid, Practical and Efficient Synthesis of Enol Phosphates from β-Keto Esters and Phosphites. *Chinese Journal of Organic Chemistry*, **2017**, 37, 1571	3	3
18	Metal-free phosphonation of benzoxazoles and benzothiazoles under oxidative conditions. *Organic Chemistry Frontiers*, **2017**, 4, 1781-1784	5.2	14
17	A Metal-Free Cross-Dehydrogenative Coupling Reaction of Amides to Access N-Alkylazoles. *Synlett*, **2016**, 27, 2705-2708	2.2	14
16	Copper-catalyzed Phosphorylation of Coumarins with Trialkyl Phosphites. *Chemistry Letters*, **2016**, 45, 825-827	1.7	7
15	Mono- and bis-N-heterocyclic carbene complexes of tantalum and niobium with high oxidation states. *New Journal of Chemistry*, **2016**, 40, 6270-6275	3.6	14
14	A simple protocol for Cu-catalyzed protodecarboxylation of (hetero)aromatic carboxylic acids. *New Journal of Chemistry*, **2016**, 40, 3014-3018	3.6	15
13	Synthesis of (pentafluorophenyl)benzenes via Pd-catalyzed C–H arylation of pentafluorobenzene with aryliodine diacetates. *Journal of the Iranian Chemical Society*, **2016**, 13, 1931-1936	2	3
12	Decarboxylative Halogenation and Cyanation of Electron-Deficient Aryl Carboxylic Acids via Cu Mediator as Well as Electron-Rich Ones through Pd Catalyst under Aerobic Conditions. *Journal of Organic Chemistry*, **2016**, 81, 2794-803	4.2	44
11	Fluorescent Properties of Manganese Halide Benzothiazole Inorganic-Organic Hybrids. *Journal of Fluorescence*, **2016**, 26, 2295-2301	2.4	10
10	Copper-mediated tandem reaction of β-ketoesters/ketones with tertiary amines for the synthesis of 2,3-dihydrofurans. *Organic and Biomolecular Chemistry*, **2015**, 13, 4426-9	3.9	6
9	Synthesis of Symmetrical Biaryls through Palladium-Catalyzed Ligand-Free Homocoupling of Aryliodine(III) Diacetates. *Synlett*, **2015**, 26, 975-979	2.2	6
8	Metal-Free Csp3–N Bond Cleavage of Amides Using tert-Butyl Hydroperoxide as Oxidant. *Synlett*, **2015**, 26, 543-546	2.2	7

7	Facile synthesis of 2,2?-dinitrosubstituted biaryls through Cu-catalyzed ligand-free decarboxylative homocoupling of ortho-nitrobenzoic acids. *RSC Advances*, **2015**, 5, 52101-52104	3.7	21
6	Cu(II)-mediated phenol oxygenation: chemical evidence implicates a unique role of the enzyme active site in promoting the chemically difficult tyrosine monooxygenation in TPQ cofactor biogenesis of copper amine oxidases. *Bioorganic Chemistry*, **2015**, 59, 31-8	5.1	4
5	Recent Progress in Pd-Catalyzed Decarboxylative Coupling Reactions of (Hetero)aromatic Carboxylic Acids. *Chinese Journal of Organic Chemistry*, **2015**, 35, 984	3	17
4	Palladium-Catalyzed Decarboxylative Methylthiolation of Aromatic Carboxylic Acids by Using DMSO as the Sulfurizing Reagent. *European Journal of Organic Chemistry*, **2014**, 2014, 7798-7802	3.2	32
3	Iodine-Catalyzed C□N Cleavage of Tertiary Amines: Synthesis of Methylene-Bridged Bis-1,3-dicarbonyl Compounds. *Synthesis*, **2014**, 46, 2445-2450	2.9	16
2	Base-Promoted, Mild and Highly Efficient Conversion of Arylboronic Acids into Phenols with tert-Butyl Hydroperoxide. *Synlett*, **2013**, 24, 1712-1714	2.2	54
1	A series of new rare earth sulfates based on lanthanide contraction and dual organic-amine templating effects. *CrystEngComm*, **2012**, 14, 6627	3.3	11