

Bin Xu

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Metal-catalyzed C–H functionalization involving isocyanides. <i>Chemical Society Reviews</i> , 2017, 46, 1103-1123.	38.1	271
2	Palladium-Assisted Regioselective C–H Cyanation of Heteroarenes Using Isonitrile as Cyanide Source. <i>Organic Letters</i> , 2012, 14, 4614-4617.	4.6	185
3	Rhodium(I)-Catalyzed Asymmetric Carbene Insertion into B–H Bonds: Highly Enantioselective Access to Functionalized Organoboranes. <i>Journal of the American Chemical Society</i> , 2015, 137, 5268-5271.	13.7	151
4	Rhodium-Catalyzed Regioselective C–H Chlorination of 7-Azaindoles Using 1,2-Dichloroethane. <i>Organic Letters</i> , 2014, 16, 5294-5297.	4.6	103
5	Palladium-Catalyzed Monoselective Halogenation of C–H Bonds: Efficient Access to Halogenated Arylpyrimidines using Calcium Halides. <i>Advanced Synthesis and Catalysis</i> , 2010, 352, 329-335.	4.3	94
6	Pd-Catalyzed Oxidative Annulation of Hydrazides with Isocyanides: Synthesis of 2-Amino-1,3,4-oxadiazoles. <i>Organic Letters</i> , 2014, 16, 2342-2345.	4.6	78
7	Rhodium-Catalyzed Direct C–H Bond Cyanation of Arenes with Isocyanide. <i>Journal of Organic Chemistry</i> , 2014, 79, 3228-3237.	3.2	73
8	Hypervalent Iodine(III) Promoted Direct Synthesis of Imidazo[1,2-a]pyrimidines. <i>European Journal of Organic Chemistry</i> , 2014, 2014, 4837-4843.	2.4	63
9	Copper Nitrate Mediated Regioselective [2+2+1] Cyclization of Alkynes with Alkenes: A Cascade Approach to Isoxazolines. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 8795-8799.	13.8	62
10	A copper-mediated tandem reaction through isocyanide insertion into N–H bonds: efficient access to unsymmetrical tetrasubstituted ureas. <i>Chemical Communications</i> , 2014, 50, 1465-1468.	4.1	55
11	Copper-Catalyzed Aerobic Oxidative Annulation and Carbon–Carbon Bond Cleavage of Arylacetamides: Domino Synthesis of Fused Quinazolinones. <i>Advanced Synthesis and Catalysis</i> , 2014, 356, 388-394.	4.3	54
12	Access to Indole-Fused Polyheterocycles via Pd-Catalyzed Base-Free Intramolecular Cross Dehydrogenative Coupling. <i>Journal of Organic Chemistry</i> , 2016, 81, 11501-11507.	3.2	52
13	Iodine-doped sumanene and its application for the synthesis of chalcogenasumanenes and silasumanenes. <i>Chemical Communications</i> , 2017, 53, 10279-10282.	4.1	52
14	Mn(OAc) ₂ -promoted oxidative annulation of vinyl isocyanides with boronic acids: synthesis of multi-substituted isoquinolines. <i>Chemical Communications</i> , 2014, 50, 13485-13488.	4.1	50
15	Intramolecular cross dehydrogenative coupling of 4-substituted coumarins: rapid and efficient access to coumestans and indole[3,2-c]coumarins. <i>Organic Chemistry Frontiers</i> , 2016, 3, 1111-1115.	4.5	48
16	Synthesis of Tellurium-Containing π -Extended Aromatics with Room-Temperature Phosphorescence. <i>Organic Letters</i> , 2019, 21, 8328-8333.	4.6	47
17	Access to Spiroindolines and Spirodihydrobenzofurans via Pd-Catalyzed Domino Heck Spiroyclization through C–H Activation and Carbene Insertion. <i>Organic Letters</i> , 2018, 20, 2728-2732.	4.6	43
18	Synthesis of Silicon and Germanium-Containing Heterosumanenes via Rhodium-Catalyzed Cyclodehydrogenation of Silicon/Germanium–Hydrogen and Carbon–Hydrogen Bonds. <i>Organic Letters</i> , 2017, 19, 4628-4631.	4.6	42

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19	Copper nitrate-mediated chemo- and regioselective annulation from two different alkynes: a direct route to isoxazoles. <i>Organic Chemistry Frontiers</i> , 2017, 4, 445-449.	4.5	41
20	Therapeutic inhibition of SGK1 suppresses colorectal cancer. <i>Experimental and Molecular Medicine</i> , 2017, 49, e399-e399.	7.7	41
21	Copper-Catalyzed Synthesis of Polysubstituted Pyrroles through [3+1+1] Cycloaddition Reaction of Nitrones and Isocyanides. <i>Organic Letters</i> , 2018, 20, 2603-2606.	4.6	39
22	Copper Nitrate Mediated Regio- and Stereoselective Difunctionalization of Alkynes: A Direct Approach to 1- \pm -Chloro-1'-nitroolefins. <i>Organic Letters</i> , 2016, 18, 4746-4749.	4.6	38
23	Cyclization of 2-Biphenylthiols to Dibenzothiophenes under PdCl ₂ /DMSO Catalysis. <i>Organic Letters</i> , 2018, 20, 5439-5443.	4.6	38
24	C(sp ³)-H functionalization with isocyanides. <i>Organic Chemistry Frontiers</i> , 2021, 8, 3525-3542.	4.5	38
25	Copper nitrate: a privileged reagent for organic synthesis. <i>Organic and Biomolecular Chemistry</i> , 2018, 16, 2602-2618.	2.8	37
26	K ₂ S ₂ O ₈ -promoted direct thiocyanation of pyrazolin-5-ones with ammonium thiocyanate at room temperature. <i>Organic Chemistry Frontiers</i> , 2020, 7, 350-354.	4.5	37
27	Parent and trisubstituted triazacoronenes: synthesis, crystal structure and physicochemical properties. <i>Chemical Communications</i> , 2016, 52, 537-540.	4.1	36
28	Recent Advances in Inert Bonds Activation with Isocyanides. <i>Chinese Journal of Organic Chemistry</i> , 2015, 35, 588.	1.3	36
29	Isocyanide-Induced Activation of Copper Sulfate: Direct Access to Functionalized Heteroarene Sulfonic Esters. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 3961-3965.	13.8	34
30	Rhodium-Catalyzed Oxidative Coupling of Aryl Hydrazones with Internal Alkynes: Efficient Synthesis of Multisubstituted Isoquinolines. <i>Synthesis</i> , 2013, 45, 2137-2149.	2.3	31
31	Copper-catalyzed tandem oxidative cyclization of arylacetamides: efficient access to N-functionalized isatins. <i>RSC Advances</i> , 2013, 3, 5824.	3.6	31
32	Rhodium-catalyzed asymmetric arylation of N- and O-containing cyclic aldimines: facile and efficient access to highly optically active 3,4-dihydrobenzo[1,4]oxazin-2-ones and dihydroquinoxalinones. <i>Organic Chemistry Frontiers</i> , 2016, 3, 944-948.	4.5	31
33	Manganese(II)-catalyzed modular synthesis of isoquinolines from vinyl isocyanides and hydrazines. <i>Organic Chemistry Frontiers</i> , 2016, 3, 516-521.	4.5	30
34	Palladium-Catalyzed Regioselective C-H Bond <i>ortho</i> -Acetoxylation of Arylpyrimidines. <i>European Journal of Organic Chemistry</i> , 2010, 2010, 4376-4380.	2.4	27
35	Development of a new analog of SGK1 inhibitor and its evaluation as a therapeutic molecule of colorectal cancer. <i>Journal of Cancer</i> , 2017, 8, 2256-2262.	2.5	25
36	PdCl ₂ /DMSO-Catalyzed Thiol-Disulfide Exchange: Synthesis of Unsymmetrical Disulfide. <i>Organic Letters</i> , 2021, 23, 3167-3172.	4.6	24

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37	Efficient cross-coupling of aryl/alkenyl triflates with acyclic secondary alkylboronic acids. <i>Organic and Biomolecular Chemistry</i> , 2017, 15, 9903-9909.	2.8	22
38	Palladium-Catalyzed Multicomponent Reaction of Alkynes, Carboxylic Acids, and Isocyanides: A Direct Approach to Captodative Olefins. <i>Organic Letters</i> , 2019, 21, 1593-1597.	4.6	22
39	Transition Metal-Participated Synthesis and Utilization of N-containing Heterocycles: Exploring for Nitrogen Sources. <i>Chemical Record</i> , 2016, 16, 1701-1714.	5.8	19
40	Silver-Assisted Oxidative Isocyanide Insertion of Ethers: A Direct Approach to $\hat{\text{I}}^2$ -Carbonyl $\hat{\text{I}}^\pm$ -Iminonitriles. <i>Organic Letters</i> , 2019, 21, 9223-9227.	4.6	19
41	Copper-Catalyzed Aerobic Annulation of Hydrazones: Direct Access to Cinnolines. <i>Advanced Synthesis and Catalysis</i> , 2017, 359, 3735-3740.	4.3	18
42	Discovery of Potent and Orally Bioavailable GPR40 Full Agonists Bearing Thiophen-2-ylpropanoic Acid Scaffold. <i>Journal of Medicinal Chemistry</i> , 2017, 60, 2697-2717.	6.4	17
43	Enantioselective Synthesis of <i>gem</i> -Diaryl Benzofuran-3(2 <i>H</i>)-ones via One-Pot Asymmetric Rhodium/Palladium Relay Catalysis. <i>Organic Letters</i> , 2017, 19, 2726-2729.	4.6	17
44	Rhodium(III)-Catalyzed $\text{C}\equiv\text{H}$ Activation of $\hat{\text{I}}^\pm$ -Iminonitriles or $\hat{\text{I}}^\pm$ -Imino Esters and Cyclization with Acrylates to 2 <i>H</i> -Isoindoles. <i>Journal of Organic Chemistry</i> , 2018, 83, 11736-11746.	3.2	17
45	From Alkenes to Isoxazolines via Copper-Mediated Alkene Cleavage and Dipolar Cycloaddition. <i>Organic Letters</i> , 2019, 21, 7435-7439.	4.6	17
46	Synthesis of N-Alkyl-Substituted 4-Quinolones via Tandem Alkenyl and Aryl C-N Bond Formation. <i>Synthesis</i> , 2012, 44, 1798-1805.	2.3	15
47	Enantioselective Synthesis of Chromenes via a Palladium-Catalyzed Asymmetric Redox-Relay Heck Reaction. <i>Chemistry - an Asian Journal</i> , 2017, 12, 3119-3122.	3.3	15
48	Copper nitrate-mediated synthesis of 3-aryl isoxazolines and isoxazoles from olefinic azlactones. <i>Organic and Biomolecular Chemistry</i> , 2019, 17, 5509-5513.	2.8	15
49	An Isoxazole Derivative SHU00238 Suppresses Colorectal Cancer Growth through miRNAs Regulation. <i>Molecules</i> , 2019, 24, 2335.	3.8	13
50	Rapid access to difluoroalkylated pyrrolobenzodiazepines <i>via</i> a Pd-catalyzed $\text{C}\equiv\text{H}$ difluoroalkylation/cyclization cascade reaction. <i>Organic Chemistry Frontiers</i> , 2019, 6, 410-414.	4.5	13
51	From Isocyanides to Iminonitriles via Silver-mediated Sequential Insertion of $\text{C}(\text{sp}^3)\text{C}\equiv\text{H}$ Bond. <i>IScience</i> , 2019, 21, 650-663.	4.1	13
52	A Rh(<i>scp</i>)-catalyzed $\text{C}\equiv\text{H}$ activation/regiospecific annulation cascade of benzoic acids with propargyl acetates to unusual 3-alkylidene-isochromanones. <i>Organic Chemistry Frontiers</i> , 2021, 8, 3876-3882.	4.5	11
53	Development of Dipolarophiles for Catalytic Asymmetric Cycloadditions through $\text{Pd}\text{C}\equiv\text{CAllyl}$ Zwitterions. <i>Chemical Record</i> , 2021, 21, 1442-1454.	5.8	11
54	Isocyanide-Induced Activation of Copper Sulfate: Direct Access to Functionalized Heteroarene Sulfonic Esters. <i>Angewandte Chemie</i> , 2017, 129, 4019-4023.	2.0	10

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55	Therapeutic Suppression of miR-4261 Attenuates Colorectal Cancer by Targeting MCC. <i>Molecular Therapy - Nucleic Acids</i> , 2017, 8, 36-45.	5.1	10
56	Copper Nitrate-Mediated Selective Difunctionalization of Alkenes: A Rapid Access to β -Bromonitrates. <i>Advanced Synthesis and Catalysis</i> , 2019, 361, 2031-2036.	4.3	10
57	SYNTHESIS OF NOVEL β -(N-PENTAFLUORO-PHENYLAMINO)BENZYLPHOSPHONATES AND PHOSPHONIC ACIDS. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 1996, 112, 219-224.	1.6	9
58	Synthesis of 1-(N-perfluoroalkanesulfonylamino)-2,2,2-(trichloroethyl)dialkylphosphonates and phosphonic Acids. <i>Heteroatom Chemistry</i> , 1997, 8, 309-315.	0.7	9
59	Ligand-free nickel-catalyzed Kumada couplings of aryl bromides with tert-butyl Grignard reagents. <i>Chinese Chemical Letters</i> , 2019, 30, 597-600.	9.0	8
60	Kinetic resolution of 2-substituted-2,3-dihydrofurans by a palladium-catalyzed asymmetric Heck reaction. <i>RSC Advances</i> , 2015, 5, 75411-75414.	3.6	7
61	PPy coated nanoflower like CuCo_2O_4 based on in situ growth of nanoporous copper for high-performance supercapacitor electrodes. <i>Nanotechnology</i> , 2022, 33, 155606.	2.6	7
62	SHU00238 Promotes Colorectal Cancer Cell Apoptosis Through miR-4701-3p and miR-4793-3p. <i>Frontiers in Genetics</i> , 2019, 10, 1320.	2.3	6
63	Silver-Promoted Regioselective Oxidative Decarboxylative C-H Alkylation of Phenanthridines with Carboxylic Acids. <i>Synthesis</i> , 2020, 52, 239-245.	2.3	5
64	Characterization of the Rifamycin-Degrading Monooxygenase From Rifamycin Producers Implicating Its Involvement in Saliniketol Biosynthesis. <i>Frontiers in Microbiology</i> , 2020, 11, 971.	3.5	5
65	Effect of sulfurization process on the properties of solution-processed Cu_2SnS_3 thin film solar cells. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 17947-17955.	2.2	5
66	From β -keto acids to nitrile oxides enabled by copper nitrate: a facile access to fused isoxazolines. <i>Organic Chemistry Frontiers</i> , 2022, 9, 676-681.	4.5	5
67	Palladium-Catalyzed Asymmetric Heck-Matsuda Reaction of 1,4-Dihydroquinolines with Aryl Diazonium Salts. <i>Synthesis</i> , 2019, 51, 3269-3276.	2.3	4
68	Production of a trioxacarcin analog by introducing a C-3 dehydratase into deoxysugar biosynthesis. <i>Acta Biochimica Et Biophysica Sinica</i> , 2019, 51, 539-541.	2.0	4
69	Interfacial Oxides Evolution of High-Speed Steel Joints by Hot-Compression Bonding. <i>Acta Metallurgica Sinica (English Letters)</i> , 2022, 35, 1837-1848.	2.9	4
70	PREPARATION OF 2-SUBSTITUTED ETHYL PERFLUOROALKYLSULFONES. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 1996, 113, 259-262.	1.6	3
71	Syntheses and reactions of N-perfluoroalkanesulfonylimino sulfurous dichlorides. <i>Heteroatom Chemistry</i> , 1999, 10, 41-48.	0.7	3
72	Kinetic Resolution of 5-Substituted Cyclohexenols by Palladium-Catalyzed Asymmetric Redox-Relay Heck Reaction. <i>Synthesis</i> , 2016, 49, 159-166.	2.3	3

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73	Comparative Evaluation of Small Molecular Additives and Their Effects on Peptide/Protein Identification. <i>Analytical Chemistry</i> , 2017, 89, 5784-5792.	6.5	3
74	Bioinformatics-guided connection of a biosynthetic gene cluster to the antitumor antibiotic gilvusmycin. <i>Acta Biochimica Et Biophysica Sinica</i> , 2018, 50, 516-518.	2.0	3
75	N-PERFLUOROALKANESULFONYLPHOSPHORAMIDES via AN IMPROVED ATHERTON-TODD REACTION. <i>Organic Preparations and Procedures International</i> , 1997, 29, 352-355.	1.3	2
76	Experimental design in the analysis of interferential effects for the determination of Sr in high Ca/Sr ratio brine by inductively coupled plasma atomic emission spectroscopy technique. <i>International Journal of Environmental Analytical Chemistry</i> , 2011, 91, 291-301.	3.3	2
77	Modeling of grain growth behavior of S34MnV steel at elevated temperatures. <i>AIP Conference Proceedings</i> , 2013, , .	0.4	2
78	Chromatographic peak reconstruction algorithm to improve qualitative and quantitative analysis of trace pesticide residues. <i>Rapid Communications in Mass Spectrometry</i> , 2016, 30, 2655-2663.	1.5	2
79	Surface stress evolution and cracks prevention of ingots during the upsetting process. <i>Engineering Review</i> , 2019, 39, 292-301.	0.5	2
80	Multicomponent Reaction of Isocyanide, Ditelluride, and Mn(III) Carboxylate: Synthesis of <i>N</i> -Acyl Tellurocarbamate. <i>Organic Letters</i> , 2022, 24, 2863-2867.	4.6	2
81	Interface bonding of SA508-3 steel under deformation and high temperature diffusion. <i>AIP Conference Proceedings</i> , 2018, , .	0.4	1
82	1,4-Diaminonitriles: Composite Functional Groups for Functionalization of Pyrene. <i>Asian Journal of Organic Chemistry</i> , 2021, 10, 262-272.	2.7	1
83	Synthesis of Poly-substituted Pyridines via Noble-Metal-Free Cycloaddition of Ketones and Imines. <i>Chemistry - an Asian Journal</i> , 2021, 16, 3905-3908.	3.3	1
84	Palladium-Catalyzed [3+2] Cycloaddition of Activated Butadienylcyclopropanes. <i>Asian Journal of Organic Chemistry</i> , 2022, 11, .	2.7	1
85	Numerical simulation and experimental study for the die forging process of a high-speed railway brake disc hub. , 2013, , .		0
86	Recrystallization characteristics and interfacial oxides on the compression bonding interface. <i>AIP Conference Proceedings</i> , 2018, , .	0.4	0