

Kun Xu

List of Publications by Year in descending order

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3340
citing authors

#	ARTICLE	IF	CITATIONS
1	Use of Electrochemistry in the Synthesis of Heterocyclic Structures. <i>Chemical Reviews</i> , 2018, 118, 4485-4540.	47.7	976
2	Recent advances in organic electrosynthesis employing transition metal complexes as electrocatalysts. <i>Science Bulletin</i> , 2021, 66, 2412-2429.	9.0	183
3	Electrochemical Formation of <i>N</i> -Acyloxy Amidyl Radicals and Their Application: Regioselective Intramolecular Amination of sp^2 and sp^3 C-H Bonds. <i>Organic Letters</i> , 2018, 20, 3443-3446.	4.6	145
4	Electrochemically dehydrogenative C-H/P-H cross-coupling: effective synthesis of phosphonated quinoxalin-2(1 <i>H</i>)-ones and xanthenes. <i>Green Chemistry</i> , 2019, 21, 4412-4421.	9.0	139
5	Electrocatalytic Minisci Acylation Reaction of <i>N</i> -Heteroarenes Mediated by NH_4^+ . <i>Organic Letters</i> , 2017, 19, 5517-5520.	4.6	132
6	Direct Amidation of Alcohols with <i>N</i> -Substituted Formamides under Transition-Metal-Free Conditions. <i>Chemistry - A European Journal</i> , 2012, 18, 9793-9797.	3.3	131
7	Scalable Electrochemical Dehydrogenative Lactonization of $C(sp^2)/sp^3$ -H Bonds. <i>Organic Letters</i> , 2018, 20, 252-255.	4.6	131
8	Direct Transformation of Terminal Alkynes to Branched Allylic Sulfones. <i>Journal of the American Chemical Society</i> , 2014, 136, 16124-16127.	13.7	127
9	Enantioselective Rhodium-Catalyzed Synthesis of Branched Allylic Amines by Intermolecular Hydroamination of Terminal Allenes. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 10876-10879.	13.8	124
10	Electrochemical fluoromethylation triggered lactonizations of alkenes under semi-aqueous conditions. <i>Chemical Science</i> , 2019, 10, 3181-3185.	7.4	117
11	Unlocking the sp^2 -Selectivity of Benzotriazoles: Regiodivergent and Highly Selective Coupling of Benzotriazoles with Allenes. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 7268-7271.	13.8	111
12	Electrochemical Minisci-type trifluoromethylation of electron-deficient heterocycles mediated by bromide ions. <i>Organic Chemistry Frontiers</i> , 2019, 6, 2392-2397.	4.5	108
13	Electrochemical Arylation of Aldehydes, Ketones, and Alcohols: from Cathodic Reduction to Convergent Paired Electrolysis. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 7275-7282.	13.8	100
14	Regio- and Enantioselective Synthesis of <i>N</i> -Substituted Pyrazoles by Rhodium-Catalyzed Asymmetric Addition to Allenes. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 7149-7153.	13.8	98
15	Atom-Economic, Regiodivergent, and Stereoselective Coupling of Imidazole Derivatives with Terminal Allenes. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 2162-2165.	13.8	97
16	Bromide-catalyzed electrochemical trifluoromethylation/cyclization of <i>N</i> -arylacrylamides with low catalyst loading. <i>Organic Chemistry Frontiers</i> , 2018, 5, 2573-2577.	4.5	88
17	Electrochemical Dehydrogenative Cross-Coupling of Quinoxalin-2(1 <i>H</i>)-ones with Amines for the Synthesis of 3-Aminoquinoxalinones. <i>Advanced Synthesis and Catalysis</i> , 2019, 361, 1033-1041.	4.3	84
18	Asymmetric synthesis of <i>N</i> -allylic indoles via regio- and enantioselective allylation of aryl hydrazines. <i>Nature Communications</i> , 2015, 6, 7616.	12.8	83

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19	Recent Advances in the Electrochemical α -C-H Bond Functionalization of Carbonyl Compounds. <i>Advanced Synthesis and Catalysis</i> , 2018, 360, 4266-4292.	4.3	79
20	KO ^t Bu-Promoted Oxidation of (Hetero)benzylic C _{sp3} -H to Ketones with Molecular Oxygen. <i>Organic Letters</i> , 2016, 18, 5680-5683.	4.6	78
21	Synthesis of 1,3-Disubstituted Imidazo[1,5-a]pyridines from Amino Acids via Catalytic Decarboxylative Intramolecular Cyclization. <i>Journal of Organic Chemistry</i> , 2016, 81, 3681-3687.	3.2	73
22	Copper-Catalyzed Oxidative Amination of sp ³ C-H Bonds under Air: Synthesis of 1,3-Diarylated Imidazo[1,5-a]pyridines. <i>Journal of Organic Chemistry</i> , 2015, 80, 2431-2435.	3.2	72
23	Copper-Catalyzed Radical Methylation/C-H Amination/Oxidation Cascade for the Synthesis of Quinazolinones. <i>Journal of Organic Chemistry</i> , 2015, 80, 4736-4742.	3.2	72
24	Photoredox catalysis enabled alkylation of alkenyl carboxylic acids with N-(acyloxy)phthalimide via dual decarboxylation. <i>Chemical Communications</i> , 2017, 53, 10719-10722.	4.1	69
25	Electrosynthesis of enamines directly from methyl ketones and amines with nitromethane as a carbon source. <i>Chemical Communications</i> , 2015, 51, 11108-11111.	4.1	67
26	Intermolecular Electrochemical C(sp ³)-H/N-H Cross-Coupling of Xanthenes with N-Alkoxyamides: Radical Pathway Mediated by Ferrocene as a Redox Catalyst. <i>Advanced Synthesis and Catalysis</i> , 2018, 360, 1665-1672.	4.3	67
27	Electrosynthesis of Trisubstituted 2-Oxazolines via Dehydrogenative Cyclization of β -Amino Arylketones. <i>Organic Letters</i> , 2018, 20, 2505-2508.	4.6	66
28	Nickel-catalyzed electrochemical reductive decarboxylative coupling of N-hydroxyphthalimide esters with quinoxalinones. <i>Chemical Communications</i> , 2019, 55, 14685-14688.	4.1	66
29	HOTf-catalyzed sustainable one-pot synthesis of benzene and pyridine derivatives under solvent-free conditions. <i>Green Chemistry</i> , 2016, 18, 2313-2316.	9.0	60
30	Asymmetric synthesis of allylic amines via hydroamination of allenes with benzophenone imine. <i>Chemical Science</i> , 2016, 7, 3313-3316.	7.4	55
31	Diverse ring opening of thietanes and other cyclic sulfides: an electrophilic aryne activation approach. <i>Chemical Communications</i> , 2018, 54, 1303-1306.	4.1	54
32	Recent advances towards electrochemical transformations of α -keto acids. <i>Chinese Chemical Letters</i> , 2021, 32, 2729-2735.	9.0	53
33	TBHP-promoted direct oxidation reaction of benzylic C _{sp3} -H bonds to ketones. <i>RSC Advances</i> , 2017, 7, 15176-15180.	3.6	52
34	Electrocatalytic Dehydrogenative Esterification of Aliphatic Carboxylic Acids: Access to Bioactive Lactones. <i>Organic Letters</i> , 2017, 19, 6622-6625.	4.6	52
35	Electrochemical Cross-Coupling of C(sp ²)-H with Aryldiazonium Salts via a Paired Electrolysis: an Alternative to Visible Light Photoredox-Based Approach. <i>Advanced Synthesis and Catalysis</i> , 2019, 361, 5170-5175.	4.3	52
36	Electrochemical Synthesis of <i>trans</i> -2,3-Disubstituted Aziridines via Oxidative Dehydrogenative Intramolecular C(sp ³)-H Amination. <i>Organic Letters</i> , 2019, 21, 9430-9433.	4.6	52

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37	A Highly Tunable Stereoselective Dimerization of Methyl Ketone: Efficient Synthesis of <i>E</i> - and <i>Z</i> -1,4-Enediones. <i>Organic Letters</i> , 2013, 15, 2148-2151.	4.6	50
38	Electrophotocatalytic Siâ€“H Activation Governed by Polarity-Matching Effects. <i>CCS Chemistry</i> , 2022, 4, 1796-1805.	7.8	50
39	Rhodium-Catalyzed/Copper-Mediated Tandem C(sp ²)â€“H Alkynylation and Annulation: Synthesis of 11-Acylated Imidazo[1,2- <i>a</i> :3,4- <i>a'</i>]dipyridin-5-ium-4-olates from 2- <i>H</i> -[1,2â€“Bipyridin]-2-ones and Propargyl Alcohols. <i>Organic Letters</i> , 2016, 18, 1064-1067.	4.6	49
40	An Ir-photoredox-catalyzed decarboxylative Michael addition of glyoxylic acid acetal as a formyl equivalent. <i>Chemical Communications</i> , 2017, 53, 11642-11645.	4.1	47
41	Cobalt-Catalyzed Decarboxylative Acetoxylation of Amino Acids and Arylacetic Acids. <i>Organic Letters</i> , 2015, 17, 4476-4478.	4.6	46
42	Enantioselective formation of tertiary and quaternary allylic Câ€“N bonds via allylation of tetrazoles. <i>Chemical Communications</i> , 2015, 51, 10861-10863.	4.1	43
43	Electroreductive 4-Pyridylation of Electron-deficient Alkenes with Assistance of Ni(acac) ₂ . <i>Organic Letters</i> , 2020, 22, 3570-3575.	4.6	43
44	Electrophotocatalytic Câ€“H Functionalization of Nâ€“Heteroarenes with Unactivated Alkanes under External Oxidantâ€“Free Conditions. <i>ChemSusChem</i> , 2022, 15, .	6.8	43
45	An aryne triggered ring-opening fluorination of cyclic thioethers with potassium fluoride. <i>Chemical Communications</i> , 2018, 54, 7081-7084.	4.1	41
46	I ₂ /TBHP-Mediated tandem cyclization and oxidation reaction: Facile access to 2-substituted thiazoles and benzothiazoles. <i>Organic and Biomolecular Chemistry</i> , 2019, 17, 252-256.	2.8	40
47	Substrateâ€“Dependent Electrochemical Dimethoxylation of Olefins. <i>Advanced Synthesis and Catalysis</i> , 2019, 361, 485-489.	4.3	40
48	Indirect Electrosynthesis with Halogen Ions as Mediators. <i>Chemical Record</i> , 2021, 21, 2290-2305.	5.8	39
49	Nickel-catalyzed electrochemical Minisci acylation of aromatic N-heterocycles with α -keto acids via ligand-to-metal electron transfer pathway. <i>Journal of Catalysis</i> , 2020, 381, 38-43.	6.2	38
50	Cobalt-Catalyzed Monoselective <i>Ortho</i> -Câ€“H Functionalization of Carboxamides with Organoaluminum Reagent. <i>Organic Letters</i> , 2016, 18, 5628-5631.	4.6	37
51	Aryne triggered [2,3]-sigmatropic rearrangement of allyl and propargyl thioethers. <i>Organic and Biomolecular Chemistry</i> , 2017, 15, 4946-4950.	2.8	36
52	Regioselective Câ€“H Phosphorothiolation of (Hetero)arenes Enabled by the Synergy of Electrooxidation and Ultrasonic Irradiation. <i>Organic Letters</i> , 2021, 23, 4214-4218.	4.6	35
53	Electrochemical Hofmann rearrangement mediated by NaBr: practical access to bioactive carbamates. <i>Organic and Biomolecular Chemistry</i> , 2018, 16, 4615-4618.	2.8	31
54	Access to Deuterated Unnatural α -Amino Acids and Peptides by Photochemical Acyl Radical Addition. <i>Organic Letters</i> , 2021, 23, 5299-5304.	4.6	31

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55	Organic Photoredox-Catalyzed Synthesis of β -Fluoromethylated Alcohols and Amines via 1,5-Hydrogen-Transfer Radical Relay. <i>Organic Letters</i> , 2019, 21, 5116-5120.	4.6	30
56	Asymmetric Aziridination of <i>N</i> -Sulphonyl Ketimines with Unfunctionalized Ketones: A One-pot Approach to Multisubstituted Fused Aziridines. <i>Journal of Organic Chemistry</i> , 2017, 82, 2399-2406.	3.2	29
57	Highly sensitive colorimetric detection of glucose in a serum based on DNA-embedded Au@Ag core-shell nanoparticles. <i>Nanotechnology</i> , 2015, 26, 405707.	2.6	28
58	Alkenes with antioxidative activities from <i>Murraya koenigii</i> (L.) Spreng. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2016, 26, 799-803.	2.2	28
59	Easily Accessible and Highly Tunable Bisphosphine Ligands for Asymmetric Hydroformylation of Terminal and Internal Alkenes. <i>Chemistry - A European Journal</i> , 2014, 20, 4357-4362.	3.3	27
60	Electrochemical synthesis of selenocyanated imidazo[1,5-a]quinolines under metal catalyst- and chemical oxidant-free conditions. <i>Chinese Chemical Letters</i> , 2020, 31, 1576-1579.	9.0	27
61	Potassium Iodide/ <i>tert</i> -Butyl Hydroperoxide-Mediated Oxidative Annulation for the Selective Synthesis of <i>N</i> -Substituted 1,2,3-Benzotriazine(3 <i>H</i>)-ones Using Nitromethane as the Nitrogen Synthon. <i>Advanced Synthesis and Catalysis</i> , 2016, 358, 212-217.	4.3	26
62	Synthesis of Cyanide-Functionalized Imidazo[1,5-a]quinolines via Copper-Mediated Aerobic Three-Component Cyclizations. <i>Advanced Synthesis and Catalysis</i> , 2018, 360, 4726-4730.	4.3	26
63	Electrochemical Dehydrogenative Imidation of <i>N</i> -Methyl-Substituted Benzylamines with Phthalimides for the Direct Synthesis of Phthalimide-Protected <i>gem</i> -Diamines. <i>Organic Letters</i> , 2019, 21, 156-159.	4.6	25
64	Transition Metal- and Base-Free Electrochemical aza-Michael Addition of Aromatic aza-Heterocycles or Ts-Protected Amines to α,β -Unsaturated Alkenes Mediated by NaI. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 2255-2261.	6.7	23
65	Recent Advances in Minisci Reactions under Electrochemical Conditions. <i>Chinese Journal of Organic Chemistry</i> , 2021, 41, 2621.	1.3	23
66	Recent Advances in the Electrochemical Formation of Carbon-Nitrogen Bonds. <i>Chinese Journal of Organic Chemistry</i> , 2021, 41, 2535.	1.3	23
67	Dehydroalanine modification sees the light: a photochemical conjugate addition strategy. <i>Trends in Chemistry</i> , 2022, 4, 643-657.	8.5	21
68	Dual roles of sulfonyl hydrazides in the catalyst-free sulfonylation of unsaturated benzylic alcohols in water. <i>Green Chemistry</i> , 2017, 19, 4494-4497.	9.0	19
69	Regioselective intramolecular sp^2 C-H amination: direct <i>vs.</i> mediated electrooxidation. <i>Organic Chemistry Frontiers</i> , 2021, 8, 1581-1586.	4.5	18
70	Electrochemical Arylation of Aldehydes, Ketones, and Alcohols: from Cathodic Reduction to Convergent Paired Electrolysis. <i>Angewandte Chemie</i> , 2021, 133, 7351-7358.	2.0	17
71	Stereoselective synthesis of <i>trans</i> -aziridines <i>via</i> intramolecular oxidative C(sp^3)-H amination of β -amino ketones. <i>Organic Chemistry Frontiers</i> , 2020, 7, 780-786.	4.5	15
72	Tandem Strecker/C(sp^3)-H amination reactions for the construction of cyanide-functionalized imidazo[1,5- <i>a</i>]pyridines with NH_4SCN as a cyanating agent. <i>Organic Chemistry Frontiers</i> , 2021, 8, 6384-6389.	4.5	14

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73	Exploring the ring-opening reactions of imidazo[1,5- <i>a</i>]quinolines for the synthesis of imides under photochemical conditions. <i>Organic and Biomolecular Chemistry</i> , 2019, 17, 6570-6573.	2.8	13
74	Functionalization of <i>N</i> -arylglycine esters: electrocatalytic access to C–C bonds mediated by <i>n</i> -Bu ₄ NI. <i>Beilstein Journal of Organic Chemistry</i> , 2018, 14, 499-505.	2.2	12
75	Electrochemical Synthesis of Allylamines via a Radical Trapping Sequence. <i>Advanced Synthesis and Catalysis</i> , 2019, 361, 4041-4047.	4.3	12
76	Direct benzylic functionalization of pyridines: Palladium-catalyzed mono- <i>ortho</i> -arylation of <i>ortho</i> -(2-pyridinyl)acetates with heteroaryl halides. <i>Chinese Chemical Letters</i> , 2020, 31, 91-94.	9.0	12
77	Synthesis of <i>N</i> -vinylindoles through copper catalyzed cyclization reaction of <i>N</i> -(2-alkynylphenyl)imine. <i>Organic and Biomolecular Chemistry</i> , 2015, 13, 6931-6934.	2.8	9
78	<i>N</i> -Hydroxyphthalimide-Mediated Electrochemical Denitrogenation of Aroylhydrazides to Generate Acyl Radicals and Their Applications in the Syntheses of Fluorenones. <i>Journal of Organic Chemistry</i> , 2021, 86, 16171-16176.	3.2	9
79	Cobalt-Catalyzed Monoselective <i>ortho</i> -C–H Ethylation of Carboxamides with Triethylaluminum. <i>Synthesis</i> , 2017, 49, 3931-3936.	2.3	6
80	Cobalt-Electrocatalyzed Allylic C–H Alkylation. <i>Chinese Journal of Organic Chemistry</i> , 2022, 42, 1260.	1.3	4
81	A Practical Transamidation Strategy for the <i>N</i> -Deacylation of Amides. <i>Chinese Journal of Organic Chemistry</i> , 2022, 42, 1123.	1.3	2
82	A new route to naphthyl ketones via copper-mediated intramolecular aerobic oxidative cyclization of alkynes and sulfonylcrotonates. <i>RSC Advances</i> , 2016, 6, 103919-103922.	3.6	1
83	Front Cover Picture: Recent Advances in the Electrochemical C–H Bond Functionalization of Carbonyl Compounds (<i>Adv. Synth. Catal.</i> 22/2018). <i>Advanced Synthesis and Catalysis</i> , 2018, 360, 4265-4265.	4.3	0
84	Front Cover Picture: Electrochemical Dehydrogenative Cross-Coupling of Quinoxalinones with Amines for the Synthesis of <i>o</i> -Aminoquinoxalinones (<i>Adv. Synth. Catal.</i> 5/2019). <i>Advanced Synthesis and Catalysis</i> , 2019, 361, 875-875.	4.3	0