

# Hai-Chao Xu

## List of Publications by Year in descending order

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109  
papers

7,318  
citations

50170

46  
h-index

58464

82  
g-index

130  
all docs

130  
docs citations

130  
times ranked

2696  
citing authors

#	ARTICLE	IF	CITATIONS
1	Chemistry with Electrochemically Generated N-Centered Radicals. <i>Accounts of Chemical Research</i> , 2019, 52, 3339-3350.	7.6	679
2	Electrochemical C <sup>α</sup> H/N <sup>α</sup> H Functionalization for the Synthesis of Highly Functionalized (Aza)indoles. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 9168-9172.	7.2	215
3	Electrochemical Difluoromethylation of Alkynes. <i>Journal of the American Chemical Society</i> , 2018, 140, 2460-2464.	6.6	215
4	Electrocatalytic Generation of Amidyl Radicals for Olefin Hydroamidation: Use of Solvent Effects to Enable Anilide Oxidation. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 2226-2229.	7.2	214
5	Photoelectrochemical C <sup>α</sup> H Alkylation of Heteroarenes with Organotrifluoroborates. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 4592-4595.	7.2	204
6	Metal- and Reagent-Free Intramolecular Oxidative Amination of Tri- and Tetrasubstituted Alkenes. <i>Journal of the American Chemical Society</i> , 2017, 139, 2956-2959.	6.6	194
7	Ruthenium-Catalyzed Electrochemical Dehydrogenative Alkyne Annulation. <i>ACS Catalysis</i> , 2018, 8, 3820-3824.	5.5	187
8	Recent advances in organic electrosynthesis employing transition metal complexes as electrocatalysts. <i>Science Bulletin</i> , 2021, 66, 2412-2429.	4.3	183
9	Amidinyl Radical Formation through Anodic N <sup>α</sup> H Bond Cleavage and Its Application in Aromatic C <sup>α</sup> H Bond Functionalization. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 587-590.	7.2	179
10	Scalable Photoelectrochemical Dehydrogenative Cross-Coupling of Heteroarenes with Aliphatic C <sup>α</sup> H Bonds. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 14275-14280.	7.2	179
11	TEMPO-Catalyzed Electrochemical C <sup>α</sup> H Thiolation: Synthesis of Benzothiazoles and Thiazolopyridines from Thioamides. <i>ACS Catalysis</i> , 2017, 7, 2730-2734.	5.5	178
12	Synthesis of C <sup>3</sup> -Fluorinated Oxindoles through Reagent-Free Cross-Dehydrogenative Coupling. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 4734-4738.	7.2	175
13	Electrophotocatalytic Decarboxylative C <sup>α</sup> H Functionalization of Heteroarenes. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 10626-10632.	7.2	161
14	Electrochemical Synthesis of Imidazo-Fused N <sup>α</sup> H-Heteroaromatic Compounds through a C <sup>α</sup> N Bond-Forming Radical Cascade. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 1636-1639.	7.2	155
15	Intramolecular Anodic Olefin Coupling Reactions: The Use of a Nitrogen Trapping Group. <i>Journal of the American Chemical Society</i> , 2008, 130, 13542-13543.	6.6	134
16	Reagent-Free C <sup>α</sup> H/N <sup>α</sup> H Cross-Coupling: Regioselective Synthesis of N <sup>α</sup> H-Heteroaromatics from Biaryl Aldehydes and NH <sub>3</sub> . <i>Angewandte Chemie - International Edition</i> , 2017, 56, 12732-12735.	7.2	132
17	Electrochemical generation of nitrogen-centered radicals for organic synthesis. <i>Green Synthesis and Catalysis</i> , 2021, 2, 165-178.	3.7	130
18	Electrochemically Enabled Carbohydroxylation of Alkenes with H <sub>2</sub> O and Organotrifluoroborates. <i>Journal of the American Chemical Society</i> , 2018, 140, 16387-16391.	6.6	127

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19	Electrochemical Synthesis of Polycyclic N-Heteroaromatics through Cascade Radical Cyclization of Diynes. <i>ACS Catalysis</i> , 2017, 7, 5810-5813.	5.5	124
20	Site-Selective Electrochemical Benzylic C-H Amination. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 2943-2947.	7.2	123
21	Dehydrogenative reagent-free annulation of alkenes with diols for the synthesis of saturated O-heterocycles. <i>Nature Communications</i> , 2018, 9, 3551.	5.8	117
22	Intramolecular Anodic Olefin Coupling Reactions and the Synthesis of Cyclic Amines. <i>Journal of the American Chemical Society</i> , 2010, 132, 2839-2844.	6.6	116
23	Cathode Material Determines Product Selectivity for Electrochemical C-H Functionalization of Biaryl Ketoximes. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 15153-15156.	7.2	112
24	Scalable Rhodium(III)-Catalyzed Aryl C-H Phosphorylation Enabled by Anodic Oxidation Induced Reductive Elimination. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 16770-16774.	7.2	111
25	Catalyst- and Supporting-Electrolyte-Free Electrosynthesis of Benzothiazoles and Thiazolopyridines in Continuous Flow. <i>Chemistry - A European Journal</i> , 2018, 24, 487-491.	1.7	107
26	Cyclization Reactions of Anode-Generated Amidyl Radicals. <i>Journal of Organic Chemistry</i> , 2014, 79, 379-391.	1.7	100
27	Practical and stereoselective electrocatalytic 1,2-diamination of alkenes. <i>Nature Communications</i> , 2019, 10, 4953.	5.8	100
28	Electrochemical Intramolecular Aminooxygenation of Unactivated Alkenes. <i>Chemistry - A European Journal</i> , 2014, 20, 12740-12744.	1.7	96
29	Continuous-Flow Electrosynthesis of Benzofused S-Heterocycles by Dehydrogenative C-S Cross-Coupling. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 6650-6653.	7.2	89
30	Electrochemical dehydrogenative cyclization of 1,3-dicarbonyl compounds. <i>Chemical Communications</i> , 2018, 54, 4601-4604.	2.2	86
31	Site-Selective Electrochemical Benzylic C-H Amination. <i>Angewandte Chemie</i> , 2021, 133, 2979-2983.	1.6	81
32	Synthesis of N-Heterocycles by Dehydrogenative Annulation of N-Allyl Amides with 1,3-Dicarbonyl Compounds. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 14070-14074.	7.2	77
33	Recent Progress on the Synthesis of (Aza)indoles through Oxidative Alkyne Annulation Reactions. <i>Synlett</i> , 2017, 28, 1867-1872.	1.0	72
34	Electrocatalytic Generation of Amidyl Radicals for Olefin Hydroamidation: Use of Solvent Effects to Enable Anilide Oxidation. <i>Angewandte Chemie</i> , 2016, 128, 2266-2269.	1.6	71
35	De Novo Synthesis of Highly Functionalized Benzimidazolones and Benzoxazolones through an Electrochemical Dehydrogenative Cyclization Cascade. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 9017-9021.	7.2	65
36	Intramolecular Anodic Olefin Coupling Reactions: Use of the Reaction Rate To Control Substrate/Product Selectivity. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 8004-8007.	7.2	64

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37	Electrochemical Synthesis of (Aza)indolines <i>via</i> Dehydrogenative [3+2] Annulation: Application to Total Synthesis of (±)-Hincindentine A. <i>Chinese Journal of Chemistry</i> , 2018, 36, 909-915.	2.6	63
38	Photoelectrochemical C <sup>α</sup> H Alkylation of Heteroarenes with Organotrifluoroborates. <i>Angewandte Chemie</i> , 2019, 131, 4640-4643.	1.6	63
39	Synthesis of 4 <i>H</i> -1,3-Benzoxazines via Metal- and Oxidizing Reagent-Free Aromatic C <sup>α</sup> H Oxygenation. <i>Organic Letters</i> , 2017, 19, 6332-6335.	2.4	61
40	Site-selective electrooxidation of methylarenes to aromatic acetals. <i>Nature Communications</i> , 2020, 11, 2706.	5.8	61
41	Electrochemically Driven Radical Reactions: From Direct Electrolysis to Molecular Catalysis. <i>Chemical Record</i> , 2021, 21, 2306-2319.	2.9	57
42	Electrochemical C <sup>α</sup> H/N <sup>α</sup> H Functionalization for the Synthesis of Highly Functionalized (Aza)indoles. <i>Angewandte Chemie</i> , 2016, 128, 9314-9318.	1.6	56
43	Investigating the Reactivity of Radical Cations: Experimental and Computational Insights into the Reactions of Radical Cations with Alcohol and <i>p</i> -Toluene Sulfonamide Nucleophiles. <i>Journal of the American Chemical Society</i> , 2012, 134, 18338-18344.	6.6	55
44	Synthesis of C <sup>3</sup> -Fluorinated Oxindoles through Reagent-Free Cross-Dehydrogenative Coupling. <i>Angewandte Chemie</i> , 2017, 129, 4812-4816.	1.6	53
45	Copper-Catalyzed Intramolecular Oxidative Amination of Unactivated Internal Alkenes. <i>Chemistry - A European Journal</i> , 2016, 22, 4379-4383.	1.7	52
46	Two-Dimensional Metal-Organic Layers on Carbon Nanotubes to Overcome Conductivity Constraint in Electrocatalysis. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 36290-36296.	4.0	51
47	Cu-Electrocatalytic Diazidation of Alkenes at ppm Catalyst Loading. <i>Journal of the American Chemical Society</i> , 2022, 144, 11980-11985.	6.6	49
48	Electrochemical Difluoromethylation of Electron-Deficient Alkenes. <i>ChemSusChem</i> , 2019, 12, 3060-3063.	3.6	48
49	Catalyst- and Reagent-Free Formal Aza-Wacker Cyclizations Enabled by Continuous-Flow Electrochemistry. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 11237-11241.	7.2	47
50	Tailored cobalt-salen complexes enable electrocatalytic intramolecular allylic C <sup>α</sup> H functionalizations. <i>Nature Communications</i> , 2021, 12, 3745.	5.8	44
51	Organoelectrocatalysis Enables Direct Cyclopropanation of Methylene Compounds. <i>Journal of the American Chemical Society</i> , 2022, 144, 2343-2350.	6.6	43
52	Anodic cyclization reactions and the synthesis of (±)-crobarbatic acid. <i>Tetrahedron Letters</i> , 2008, 49, 3868-3871.	0.7	42
53	Asymmetric synthesis of amines using tert-butanefluoramide. <i>Nature Protocols</i> , 2013, 8, 2271-2280.	5.5	42
54	Amidinyl Radical Formation through Anodic N <sup>α</sup> H Bond Cleavage and Its Application in Aromatic C <sup>α</sup> H Bond Functionalization. <i>Angewandte Chemie</i> , 2017, 129, 602-605.	1.6	42

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55	Electrochemical Synthesis of Imidazo-fused N-Heteroaromatic Compounds through a C-N Bond-Forming Radical Cascade. <i>Angewandte Chemie</i> , 2018, 130, 1652-1655.	1.6	41
56	Electrochemical synthesis of 7-membered carbocycles through cascade 5-exo-trig/7-endo-trig radical cyclization. <i>Organic Chemistry Frontiers</i> , 2018, 5, 3129-3132.	2.3	40
57	Electrocatalytic Allylic C-H Alkylation Enabled by a Dual-Function Cobalt Catalyst**. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	40
58	Electrophotocatalytic C-H Azolation of Arenes. <i>ChemElectroChem</i> , 2021, 8, 1571-1573.	1.7	38
59	Electrochemical C-H phosphorylation of arenes in continuous flow suitable for late-stage functionalization. <i>Nature Communications</i> , 2021, 12, 6629.	5.8	38
60	Electrochemically Enabled Intramolecular Aminooxygenation of Alkynes via Amidyl Radical Cyclization. <i>Chinese Journal of Chemistry</i> , 2020, 38, 394-398.	2.6	37
61	Synthesis of Acridinium Photocatalysts via Site-Selective C-H Alkylation. <i>CCS Chemistry</i> , 2021, 3, 317-325.	4.6	37
62	Anodic coupling of carboxylic acids to electron-rich double bonds: A surprising non-Kolbe pathway to lactones. <i>Beilstein Journal of Organic Chemistry</i> , 2013, 9, 1630-1636.	1.3	36
63	Scalable Rhodium(III)-Catalyzed Aryl C-H Phosphorylation Enabled by Anodic Oxidation Induced Reductive Elimination. <i>Angewandte Chemie</i> , 2019, 131, 16926-16930.	1.6	35
64	Reagent-Free C-H/N-H Cross-Coupling: Regioselective Synthesis of N-Heteroaromatics from Biaryl Aldehydes and NH <sub>3</sub> . <i>Angewandte Chemie</i> , 2017, 129, 12906-12909.	1.6	34
65	Electrochemical Synthesis of Tetrasubstituted Hydrazines by Dehydrogenative N-N Bond Formation. <i>Chinese Journal of Organic Chemistry</i> , 2019, 39, 1424.	0.6	34
66	Two-Dimensional Metal-Organic Framework Nanosheets: Synthesis and Applications in Electrocatalysis and Photocatalysis. <i>ChemSusChem</i> , 2022, 15, .	3.6	33
67	Cathode Material Determines Product Selectivity for Electrochemical C-H Functionalization of Biaryl Ketoximes. <i>Angewandte Chemie</i> , 2018, 130, 15373-15376.	1.6	32
68	Electrochemical Fluoroalkynylation of Aryl Alkenes with Fluoride Ions and Alkynyltrifluoroborate Salts. <i>Asian Journal of Organic Chemistry</i> , 2019, 8, 658-660.	1.3	32
69	Electrophotocatalytic Decarboxylative C-H Functionalization of Heteroarenes. <i>Angewandte Chemie</i> , 2020, 132, 10713-10719.	1.6	30
70	Scalable Photoelectrochemical Dehydrogenative Cross-Coupling of Heteroarenes with Aliphatic C-H Bonds. <i>Angewandte Chemie</i> , 2020, 132, 14381-14386.	1.6	28
71	Substrate-Based Fragment Identification for the Development of Selective, Nonpeptidic Inhibitors of Striatal-Enriched Protein Tyrosine Phosphatase. <i>Journal of Medicinal Chemistry</i> , 2013, 56, 7636-7650.	2.9	26
72	Synthesis of N-Heterocycles by Dehydrogenative Annulation of N-Allyl Amides with 1,3-Dicarbonyl Compounds. <i>Angewandte Chemie</i> , 2018, 130, 14266-14270.	1.6	26

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73	Câ€“H Alkylation of Heteroarenes with Alkyl Oxalates by Molecular Photoelectrocatalysis. <i>Synlett</i> , 2021, 32, 369-372.	1.0	26
74	Electrochemical Synthesis of [1,2,3]Triazolo[1,5- <i>a</i> ]pyridines through Dehydrogenative Cyclization. <i>ChemElectroChem</i> , 2019, 6, 4177-4179.	1.7	24
75	Electrochemical aromatic Câ€“H hydroxylation in continuous flow. <i>Nature Communications</i> , 2022, 13, .	5.8	23
76	A General CuCl <sub>2</sub> -Promoted Alkene Aminochlorination Reaction. <i>European Journal of Organic Chemistry</i> , 2016, 2016, 3449-3455.	1.2	22
77	Electrocatalytic Dehydrogenative Cyclization of 2-Vinylnilides for the Synthesis of Indoles. <i>Journal of Organic Chemistry</i> , 2021, 86, 16001-16007.	1.7	22
78	Intramolecular Anodic Olefin Coupling Reactions: Using Competition Studies to Probe the Mechanism of Oxidative Cyclization Reactions. <i>Organic Letters</i> , 2010, 12, 1720-1723.	2.4	20
79	Diversity-Oriented Asymmetric Synthesis of Hapalysin:Â Construction of Three Small C9/C4/C3-Modified Hapalysin Analogue Libraries. <i>ACS Combinatorial Science</i> , 2007, 9, 386-394.	3.3	19
80	Twoâ€“Dimensional Metalâ€“Organic Layers for Electrochemical Acceptorless Dehydrogenation of Nâ€“Heterocycles. <i>Chemistry - an Asian Journal</i> , 2019, 14, 3557-3560.	1.7	19
81	Electrochemical Synthesis of Benzimidazoles via Dehydrogenative Cyclization of Amidines. <i>ChemSusChem</i> , 2021, 14, 1692-1695.	3.6	18
82	Integrating Continuous-Flow Electrochemistry and Photochemistry for the Synthesis of Acridinium Photocatalysts Via Site-Selective Câ€“H Alkylation. <i>Organic Process Research and Development</i> , 2021, 25, 2608-2613.	1.3	17
83	Synthesis of 1,3-benzothiazines by intramolecular dehydrogenative Câ€“S cross-coupling in a flow electrolysis cell. <i>Science China Chemistry</i> , 2019, 62, 1501-1503.	4.2	16
84	Tetrafluorophenoxymethyl ketone cruzain inhibitors with improved pharmacokinetic properties as therapeutic leads for Chagasâ€™ disease. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2015, 25, 4834-4837.	1.0	15
85	Continuousâ€“Flow Electrosynthesis of Benzofused Sâ€“Heterocycles by Dehydrogenative Câ€“S Crossâ€“Coupling. <i>Angewandte Chemie</i> , 2019, 131, 6722-6725.	1.6	15
86	De Novo Synthesis of Highly Functionalized Benzimidazolones and Benzoxazolones through an Electrochemical Dehydrogenative Cyclization Cascade. <i>Angewandte Chemie</i> , 2019, 131, 9115-9119.	1.6	14
87	Electrochemistry in Synthetic Organic Chemistry. <i>Journal of Organic Chemistry</i> , 2021, 86, 15845-15846.	1.7	14
88	Electrochemical Deoxygenation of N-Heteroaromatic N-Oxides. <i>Synlett</i> , 2019, 30, 1219-1221.	1.0	13
89	A diastereoselective approach to axially chiral biaryls via electrochemically enabled cyclization cascade. <i>Beilstein Journal of Organic Chemistry</i> , 2019, 15, 795-800.	1.3	12
90	Electrochemical dehydrogenative Nâ€“H/Nâ€“H coupling reactions. <i>Current Opinion in Electrochemistry</i> , 2022, 34, 100988.	2.5	12

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91	Intramolecular Hydroamination of Dithioketene Acetals: An Easy Route To Cyclic Amino Acid Derivatives. <i>Organic Letters</i> , 2010, 12, 5174-5177.	2.4	11
92	Modular Synthesis of Functionalized 4-Quinolones via a Radical Cyclization Cascade Reaction. <i>Acta Chimica Sinica</i> , 2019, 77, 879.	0.5	11
93	Electrocatalytic Allylic C-H Alkylation Enabled by a Dual-Function Cobalt Catalyst**. <i>Angewandte Chemie</i> , 2022, 134, .	1.6	10
94	Electrochemical synthesis of polymer microgels. <i>Polymer Chemistry</i> , 2015, 6, 3979-3987.	1.9	8
95	Discovery of a tetraarylhydrazine catalyst for electrocatalytic synthesis of imidazo-fused N-heteroaromatic compounds. <i>Organic and Biomolecular Chemistry</i> , 2021, 19, 8789-8793.	1.5	8
96	Electrode Materials Tune Product Selectivity. <i>Chinese Journal of Organic Chemistry</i> , 2020, 40, 2592.	0.6	6
97	Electrocatalytic C(sp <sup>3</sup> )-H/C(sp <sup>3</sup> )-H cross-coupling in continuous flow through TEMPO/copper relay catalysis. <i>Beilstein Journal of Organic Chemistry</i> , 2021, 17, 2650-2656.	1.3	6
98	Frontispiece: Electrochemical C-H/N-H Functionalization for the Synthesis of Highly Functionalized (Aza)indoles. <i>Angewandte Chemie - International Edition</i> , 2016, 55, .	7.2	2
99	Catalyst- and Reagent-Free Formal Aza-Wacker Cyclizations Enabled by Continuous-Flow Electrochemistry. <i>Angewandte Chemie</i> , 2021, 133, 11337-11341.	1.6	2
100	Titelbild: Synthesis of C3-Fluorinated Oxindoles through Reagent-Free Cross-Dehydrogenative Coupling ( <i>Angew. Chem.</i> 17/2017). <i>Angewandte Chemie</i> , 2017, 129, 4703-4703.	1.6	1
101	Rücktitelbild: Electrochemical Synthesis of Imidazo-Fused N-Heteroaromatic Compounds through a C-N Bond-Forming Radical Cascade ( <i>Angew. Chem.</i> 6/2018). <i>Angewandte Chemie</i> , 2018, 130, 1738-1738.	1.6	1
102	Synthesis of Heterocycles from Thioamides. , 2019, , 127-155.		1
103	7 Electrochemically Generated Nitrogen-Centered Radicals. , 2022, , .		1
104	Frontispiz: Electrochemical C-H/N-H Functionalization for the Synthesis of Highly Functionalized (Aza)indoles. <i>Angewandte Chemie</i> , 2016, 128, .	1.6	0
105	Innentitelbild: De Novo Synthesis of Highly Functionalized Benzimidazolones and Benzoxazolones through an Electrochemical Dehydrogenative Cyclization Cascade ( <i>Angew. Chem.</i> 27/2019). <i>Angewandte Chemie</i> , 2019, 131, 9042-9042.	1.6	0
106	Innenrücktitelbild: Scalable Rhodium(III)-Catalyzed Aryl C-H Phosphorylation Enabled by Anodic Oxidation Induced Reductive Elimination ( <i>Angew. Chem.</i> 47/2019). <i>Angewandte Chemie</i> , 2019, 131, 17239-17239.	1.6	0
107	Rücktitelbild: Photoelectrochemical C-H Alkylation of Heteroarenes with Organotrifluoroborates ( <i>Angew. Chem.</i> 14/2019). <i>Angewandte Chemie</i> , 2019, 131, 4794-4794.	1.6	0
108	Electrocatalytic Generation of Amidyl Radicals for N-Heterocycle Synthesis. <i>ECS Meeting Abstracts</i> , 2016, , .	0.0	0

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109	Alternating Current Promoted Radical-Radical Cross Coupling. Chinese Journal of Organic Chemistry, 2022, 42, 650.	0.6	0