

Xin Cui

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

2,208
citations

331670

21
h-index

434195

31
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42
all docs

42
docs citations

42
times ranked

1671
citing authors

#	ARTICLE	IF	CITATIONS
1	Characterization of Porphyrin-Co(III)-Nitrene Radical™ Species Relevant in Catalytic Nitrene Transfer Reactions. <i>Journal of the American Chemical Society</i> , 2015, 137, 5468-5479.	13.7	185
2	Asymmetric Radical Cyclopropanation of Alkenes with In Situ-Generated Donor-Substituted Diazo Reagents via Co(II)-Based Metalloradical Catalysis. <i>Journal of the American Chemical Society</i> , 2017, 139, 1049-1052.	13.7	177
3	Highly Asymmetric Intramolecular Cyclopropanation of Acceptor-Substituted Diazoacetates by Co(II)-Based Metalloradical Catalysis: Iterative Approach for Development of New-Generation Catalysts. <i>Journal of the American Chemical Society</i> , 2011, 133, 15292-15295.	13.7	174
4	Regioselective Synthesis of Multisubstituted Furans via Metalloradical Cyclization of Alkynes with $\hat{\pm}$ -Diazocarbonyls: Construction of Functionalized $\hat{\pm}$ -Oligofurans. <i>Journal of the American Chemical Society</i> , 2012, 134, 19981-19984.	13.7	171
5	Enantioselective Cyclopropanation of Alkynes with Acceptor/Acceptor-Substituted Diazo Reagents via Co(II)-Based Metalloradical Catalysis. <i>Journal of the American Chemical Society</i> , 2011, 133, 3304-3307.	13.7	142
6	Metalloradical Approach to 2-H-Chromenes. <i>Journal of the American Chemical Society</i> , 2014, 136, 1090-1096.	13.7	142
7	Effective Synthesis of Chiral N-Fluoroaryl Aziridines through Enantioselective Aziridination of Alkenes with Fluoroaryl Azides. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 5309-5313.	13.8	141
8	Enantioselective Radical Cyclization for Construction of 5-Membered Ring Structures by Metalloradical C-H Alkylation. <i>Journal of the American Chemical Society</i> , 2018, 140, 4792-4796.	13.7	120
9	Catalytic Radical Process for Enantioselective Amination of C(sp ³)-H Bonds. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 16837-16841.	13.8	108
10	Stereoselective radical C-H alkylation with acceptor/acceptor-substituted diazo reagents via Co(II)-based metalloradical catalysis. <i>Chemical Science</i> , 2015, 6, 1219-1224.	7.4	100
11	Cobalt(II)-Catalyzed Asymmetric Olefin Cyclopropanation with $\hat{\pm}$ -Ketodiazoacetates. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 11857-11861.	13.8	95
12	Ruthenium-Catalyzed Enantioselective C-H Functionalization: A Practical Access to Optically Active Indoline Derivatives. <i>Journal of the American Chemical Society</i> , 2019, 141, 15730-15736.	13.7	89
13	Enantioselective Radical Construction of 5-Membered Cyclic Sulfonamides by Metalloradical C-H Amination. <i>Journal of the American Chemical Society</i> , 2019, 141, 18160-18169.	13.7	84
14	Selective radical amination of aldehydic C(sp ²)-H bonds with fluoroaryl azides via Co(II)-based metalloradical catalysis: synthesis of N-fluoroaryl amides from aldehydes under neutral and nonoxidative conditions. <i>Chemical Science</i> , 2014, 5, 2422-2427.	7.4	62
15	Metalloradical activation of $\hat{\pm}$ -formyldiazoacetates for the catalytic asymmetric radical cyclopropanation of alkenes. <i>Chemical Science</i> , 2017, 8, 4347-4351.	7.4	61
16	Next-Generation D ₂ -Symmetric Chiral Porphyrins for Cobalt(II)-Based Metalloradical Catalysis: Catalyst Engineering by Distal Bridging. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 2670-2674.	13.8	59
17	Stereoselective intramolecular cyclopropanation of $\hat{\pm}$ -diazoacetates via Co(II)-based metalloradical catalysis. <i>Organic Chemistry Frontiers</i> , 2014, 1, 515-520.	4.5	31
18	Catalytic Radical Process for Enantioselective Amination of C(sp ³)-H Bonds. <i>Angewandte Chemie</i> , 2018, 130, 17079-17083.	2.0	29

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19	Metalloradical activation of carbonyl azides for enantioselective radical aziridination. <i>CheM</i> , 2021, 7, 1120-1134.	11.7	29
20	Ligand Effect on Cobalt(II)-Catalyzed Asymmetric Cyclopropanation with Diazosulfones – Approaching High Stereoselectivity through Modular Design of D ₂ -Symmetric Chiral Porphyrins. <i>European Journal of Inorganic Chemistry</i> , 2012, 2012, 430-434.	2.0	24
21	Catalytic [2 + 2 + 2] cycloaddition with indium(III)-activated formaldimines: a practical and selective access to hexahydropyrimidines and 1,3-diamines from alkenes. <i>Chemical Science</i> , 2017, 8, 6520-6524.	7.4	24
22	Room temperature activation of aryloxysulfonyl azides by [Co(II)(TPP)] for selective radical aziridination of alkenes via metalloradical catalysis. <i>Tetrahedron Letters</i> , 2015, 56, 3431-3434.	1.4	21
23	Enabling Catalytic Arene C-H Amidomethylation via Bis(tosylamido)methane as a Sustainable Formaldimine Releaser. <i>Organic Letters</i> , 2019, 21, 3735-3740.	4.6	14
24	Aryldiazonium ion initiated C-N bond cleavage for the versatile, efficient and regioselective ring opening of aziridines. <i>Organic Chemistry Frontiers</i> , 2019, 6, 1832-1836.	4.5	14
25	Synthesis of <i>C</i> -Unsubstituted 1,2-Diazetidines and Their Ring-Opening Reactions via Selective N-N Bond Cleavage. <i>Journal of Organic Chemistry</i> , 2018, 83, 9497-9503.	3.2	12
26	Next-Generation D ₂ -Symmetric Chiral Porphyrins for Cobalt(II)-Based Metalloradical Catalysis: Catalyst Engineering by Distal Bridging. <i>Angewandte Chemie</i> , 2019, 131, 2696-2700.	2.0	12
27	Fe(III)-Based Tandem Catalysis for Amidomethylative Multiple Substitution Reactions of <i>1</i> -Substituted Styrene Derivatives. <i>ACS Catalysis</i> , 2020, 10, 10627-10636.	11.2	8
28	Ligand-Controlled Regiodivergence for Catalytic Stereoselective Semireduction of Allenamides. <i>Chemistry - A European Journal</i> , 2022, 28, .	3.3	4
29	Catalytic Amidomethylative [2+2+2] Cycloaddition of Formaldimine and Styrenes toward N-Heterocycles. <i>Synthesis</i> , 2022, 54, 2165-2174.	2.3	1
30	Kinetic spectroscopic quantification using two-step chromogenic and fluorogenic reactions: From theoretical modeling to experimental quantification of biomarkers in practical samples. <i>Analytica Chimica Acta</i> , 2021, 1153, 338293.	5.4	0