

Zhen Zhang

List of Publications by Year in descending order

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35
papers

1,695
citations

331670

21
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414414

32
g-index

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38
docs citations

38
times ranked

1236
citing authors

#	ARTICLE	IF	CITATIONS
1	Highly Regio- and Enantioselective Copper-Catalyzed Reductive Hydroxymethylation of Styrenes and 1,3-Dienes with CO ₂ . <i>Journal of the American Chemical Society</i> , 2017, 139, 17011-17014.	13.7	187
2	Lactamization of sp ² C-H Bonds with CO ₂ : Transition-Metal-Free and Redox-Neutral. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 7068-7072.	13.8	170
3	Visible-Light-Driven Catalytic Reductive Carboxylation with CO ₂ . <i>ACS Catalysis</i> , 2020, 10, 10871-10885.	11.2	146
4	Selective and Catalytic Hydrocarboxylation of Enamides and Imines with CO ₂ to Generate α,β -Disubstituted α -Amino Acids. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 13897-13901.	13.8	129
5	Selective Oxytrifluoromethylation of Allylamines with CO ₂ . <i>Angewandte Chemie - International Edition</i> , 2016, 55, 10022-10026.	13.8	105
6	CO ₂ = CO + [O]: recent advances in carbonylation of C-H bonds with CO ₂ . <i>Chemical Communications</i> , 2020, 56, 8355-8367.	4.1	87
7	Synthesis of Oxazolidinones from Unsaturated Amines with CO ₂ by Using Homogeneous Catalysis. <i>Chemistry - an Asian Journal</i> , 2018, 13, 2292-2306.	3.3	76
8	Nickel-catalyzed electrochemical carboxylation of unactivated aryl and alkyl halides with CO ₂ . <i>Nature Communications</i> , 2021, 12, 7086.	12.8	71
9	CO ₂ = CO + O: Redox-Neutral Lactamization and Lactonization of C-H Bonds with CO ₂ . <i>Synlett</i> , 2017, 28, 741-750.	1.8	68
10	Transition-Metal-Free Lactonization of sp ² C-H Bonds with CO ₂ . <i>Organic Letters</i> , 2017, 19, 396-399.	4.6	67
11	Catalytic Lactonization of Unactivated Aryl C-H Bonds with CO ₂ : Experimental and Computational Investigation. <i>Organic Letters</i> , 2018, 20, 3776-3779.	4.6	64
12	Ruthenium-catalyzed umpolung carboxylation of hydrazones with CO ₂ . <i>Chemical Science</i> , 2018, 9, 4873-4878.	7.4	62
13	Gold-Catalyzed Cyclization of ϵ -(Indolyl) β -alkynols: Facile Synthesis of Diversified Carbazoles. <i>Chemistry - A European Journal</i> , 2013, 19, 10625-10631.	3.3	52
14	Unravelling the binding mechanism of benproperine with human serum albumin: A docking, fluorometric, and thermodynamic approach. <i>European Journal of Medicinal Chemistry</i> , 2018, 146, 245-250.	5.5	47
15	Pd-catalyzed carbonylation of aryl C-H bonds in benzamides with CO ₂ . <i>Organic Chemistry Frontiers</i> , 2018, 5, 2086-2090.	4.5	46
16	Lactonization of C(sp ²)-H Bonds in Enamides with CO ₂ . <i>Chinese Journal of Chemistry</i> , 2018, 36, 430-436.	4.9	44
17	Lactamization of sp ² C-H Bonds with CO ₂ : Transition-Metal-Free and Redox-Neutral. <i>Angewandte Chemie</i> , 2016, 128, 7184-7188.	2.0	40
18	Transition-metal-free lactamization of C(sp ³)-H bonds with CO ₂ : facile generation of pyrido[1,2- <i>a</i>]pyrimidin-4-ones. <i>Green Chemistry</i> , 2020, 22, 28-32.	9.0	30

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19	Palladium(0)-Catalyzed Reaction of Cyclopropylidenecycloalkanes with Carbon Dioxide. <i>European Journal of Organic Chemistry</i> , 2011, 2011, 7189-7193.	2.4	29
20	Coupling of C(sp ³)-H bonds with C(sp ²)-O electrophiles: mild, general and selective. <i>Chemical Communications</i> , 2017, 53, 1192-1195.	4.1	29
21	Selective and Catalytic Hydrocarboxylation of Enamides and Imines with CO ₂ to Generate α,β -Disubstituted α -Amino Acids. <i>Angewandte Chemie</i> , 2018, 130, 14093-14097.	2.0	27
22	Allenic Esters from Cyclopropenones by Lewis Base Catalysis: Substrate Scope, the Asymmetric Variant from the Dynamic Kinetic Asymmetric Transformation, and Mechanistic Studies. <i>ChemCatChem</i> , 2015, 7, 3340-3349.	3.7	21
23	Selective Oxytrifluoromethylation of Allylamines with CO ₂ . <i>Angewandte Chemie</i> , 2016, 128, 10176-10180.	2.0	18
24	Transition-metal-free synthesis of thiazolidin-2-ones and 1,3-thiazinan-2-ones from arylamines, elemental sulfur and CO ₂ . <i>Green Chemistry</i> , 2021, 23, 274-279.	9.0	17
25	Synthesis of tetronic acids from propargylic alcohols and CO ₂ . <i>Chemical Communications</i> , 2018, 54, 5610-5613.	4.1	14
26	Phylogeny, Age, and Evolution of Tribe Lilieae (Liliaceae) Based on Whole Plastid Genomes. <i>Frontiers in Plant Science</i> , 2021, 12, 699226.	3.6	10
27	Synthesis of 2-aryl-benzothiazoles via Ni-catalyzed coupling of benzothiazoles and aryl sulfamates. <i>Heterocyclic Communications</i> , 2020, 26, 1-5.	1.2	8
28	Phylogeny and Comparative Analysis for the Plastid Genomes of Five Tulipa (Liliaceae). <i>BioMed Research International</i> , 2021, 2021, 1-10.	1.9	7
29	Recent Advances in the Synthesis of Quinolin-2-Ones and Phenanthridin-6-Ones by Direct Carbonylation (microreview). <i>Chemistry of Heterocyclic Compounds</i> , 2020, 56, 509-511.	1.2	1
30	Catalytic Hydroprocessing of White Pine Pyrolysis Bio-Oil over Cobalt-Molybdenum Carbide in a Continuous Packed-Bed Reactor. <i>Bioenergy Research</i> , 2021, 14, 588-597.	3.9	1
31	Improved Extraction of Rare Earths of La, Ce, Pr, and Nd by Optimizing the Structure of Phenoxyacetic Acid. <i>ChemistrySelect</i> , 2021, 6, 10033-10037.	1.5	1
32	Frontispiz: Lactamization of sp ² C-H Bonds with CO ₂ : Transition-Metal-Free and Redox-Neutral. <i>Angewandte Chemie</i> , 2016, 128, .	2.0	0
33	Frontispiece: Lactamization of sp ² C-H Bonds with CO ₂ : Transition-Metal-Free and Redox-Neutral. <i>Angewandte Chemie - International Edition</i> , 2016, 55, .	13.8	0
34	Back Cover: Lactonization of C(sp ²)-H Bonds in Enamides with CO ₂ (Chin. J. Chem. 5/2018). <i>Chinese Journal of Chemistry</i> , 2018, 36, 472-472.	4.9	0
35	Chemical Synthesis and Antigenic Evaluation of Inner Core Oligosaccharides from <i>Acinetobacter baumannii</i> Lipopolysaccharide. <i>Angewandte Chemie</i> , 0, , .	2.0	0