

Xiao Wang

List of Publications by Year in descending order

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26
papers

1,394
citations

516561

16
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526166

27
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33
all docs

33
docs citations

33
times ranked

1821
citing authors

#	ARTICLE	IF	CITATIONS
1	A Mild, One-Pot Stadler-Ziegler Synthesis of Arylsulfides Facilitated by Photoredox Catalysis in Batch and Continuous-Flow. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 7860-7864.	7.2	182
2	Pine needle-derived microporous nitrogen-doped carbon frameworks exhibit high performances in electrocatalytic hydrogen evolution reaction and supercapacitors. <i>Nanoscale</i> , 2017, 9, 1237-1243.	2.8	154
3	Rapid Trifluoromethylation and Perfluoroalkylation of Five-Membered Heterocycles by Photoredox Catalysis in Continuous Flow. <i>ChemSusChem</i> , 2014, 7, 1612-1617.	3.6	145
4	Disulfide-Catalyzed Visible-Light-Mediated Oxidative Cleavage of C=C Bonds and Evidence of an Olefin-Disulfide Charge-Transfer Complex. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 832-836.	7.2	119
5	A mild and fast photocatalytic trifluoromethylation of thiols in batch and continuous-flow. <i>Chemical Science</i> , 2014, 5, 4768-4773.	3.7	109
6	Challenges and outlook for catalytic direct amidation reactions. <i>Nature Catalysis</i> , 2019, 2, 98-102.	16.1	105
7	Rh-Catalyzed Asymmetric Hydroformylation of Functionalized 1,1-Disubstituted Olefins. <i>Journal of the American Chemical Society</i> , 2011, 133, 19080-19083.	6.6	101
8	Visible Light Photocatalytic Metal-Free Perfluoroalkylation of Heteroarenes in Continuous Flow. <i>Journal of Flow Chemistry</i> , 2015, 4, 12-17.	1.2	61
9	Synthesis of Acrylic Acid Derivatives from CO ₂ and Ethylene. <i>CheM</i> , 2017, 3, 211-228.	5.8	61
10	Principles and Applications of Enantioselective Hydroformylation of Terminal Disubstituted Alkenes. <i>ACS Catalysis</i> , 2015, 5, 6828-6837.	5.5	59
11	Minimal Fluorous Tagging Strategy that Enables the Synthesis of the Complete Stereoisomer Library of SCH725674 Macrolactones. <i>Journal of the American Chemical Society</i> , 2012, 134, 7963-7970.	6.6	46
12	Synthesis of Optically Pure 2-Trifluoromethyl Lactic Acid by Asymmetric Hydroformylation. <i>Journal of Organic Chemistry</i> , 2013, 78, 3429-3433.	1.7	44
13	Light, Medium, and Heavy Fluorous Triarylphosphines Exhibit Comparable Reactivities to Triphenylphosphine in Typical Reactions of Triarylphosphines. <i>Journal of Organic Chemistry</i> , 2005, 70, 3716-3719.	1.7	27
14	Iron-Catalyzed Cross-Coupling of Alkynyl and Styrenyl Chlorides with Alkyl Grignard Reagents in Batch and Flow. <i>Chemistry - A European Journal</i> , 2019, 25, 14532-14535.	1.7	21
15	Promoting defective-Li ₂ O ₂ formation via Na doping for Li-O ₂ batteries with low charge overpotentials. <i>Journal of Materials Chemistry A</i> , 2019, 7, 10389-10396.	5.2	17
16	The azido acid approach to Î²-peptides: parallel synthesis of a tri-Î²-peptide library by fluorous tagging. <i>Tetrahedron</i> , 2007, 63, 6141-6145.	1.0	14
17	Continuous-flow step-economical synthesis of thiuram disulfides via visible-light photocatalytic aerobic oxidation. <i>Green Chemistry</i> , 2021, 23, 1280-1285.	4.6	13
18	Recent advances in continuous rhodium-catalyzed hydroformylation. <i>Journal of Flow Chemistry</i> , 2015, 5, 125-132.	1.2	12

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19	A plausible prebiotic selection of ribose for RNA - formation, dynamic isolation, and nucleotide synthesis based on metal-doped-clays. <i>CheM</i> , 2021, 7, 3292-3308.	5.8	10
20	Dynamic characteristics of soil respiration in Yellow River Delta wetlands, China. <i>Physics and Chemistry of the Earth</i> , 2018, 103, 11-18.	1.2	9
21	Comparison of the Relative Reactivities of the Triisopropylsilyl Group With Two Fluorous Analogs. <i>Advanced Synthesis and Catalysis</i> , 2009, 351, 1035-1040.	2.1	8
22	Cavitation as a plausible driving force for the prebiotic formation of N9 purine nucleosides. <i>Cell Reports Physical Science</i> , 2021, 2, 100375.	2.8	7
23	Nonmacrocylic Iron(II) Soluble Redox Mediators Leading to High-Rate Li ⁺ O ₂ Battery. <i>CCS Chemistry</i> , 2021, 3, 1350-1358.	4.6	5
24	Pseudo-Five-Component Reaction for Diastereoselective Synthesis of Butterfly Shaped Bispiro[Oxindole-Pyrrolidine]s. <i>Journal of Organic Chemistry</i> , 2021, 86, 17395-17403.	1.7	5
25	A Prebiotic Ribosylation of Pyrimidine Nucleobases Enabled by Metal Cations and Clay Minerals. <i>Life</i> , 2021, 11, 1381.	1.1	4
26	Catalyst-free biphasic oxidation of Thiophenes in continuous-flow. <i>Journal of Flow Chemistry</i> , 2020, 10, 597-603.	1.2	1