

Xiaoqiang Huang

List of Publications by Year in descending order

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Version: 2024-02-01

24
papers

1,836
citations

394421

19
h-index

610901

24
g-index

24
all docs

24
docs citations

24
times ranked

1548
citing authors

#	ARTICLE	IF	CITATIONS
1	Direct Visible-Light-Excited Asymmetric Lewis Acid Catalysis of Intermolecular [2+2] Photocycloadditions. <i>Journal of the American Chemical Society</i> , 2017, 139, 9120-9123.	13.7	203
2	Asymmetric Photocatalysis with Bis-cyclometalated Rhodium Complexes. <i>Accounts of Chemical Research</i> , 2019, 52, 833-847.	15.6	198
3	Photoenzymatic enantioselective intermolecular radical hydroalkylation. <i>Nature</i> , 2020, 584, 69-74.	27.8	171
4	Asymmetric Catalysis with Organic Azides and Diazo Compounds Initiated by Photoinduced Electron Transfer. <i>Journal of the American Chemical Society</i> , 2016, 138, 12636-12642.	13.7	160
5	Electricity-driven asymmetric Lewis acid catalysis. <i>Nature Catalysis</i> , 2019, 2, 34-40.	34.4	122
6	Asymmetric [3+2] Photocycloadditions of Cyclopropanes with Alkenes or Alkynes through Visible-Light Excitation of Catalyst-Bound Substrates. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 5454-5458.	13.8	110
7	Asymmetric Synthesis of 1,4-Dicarbonyl Compounds from Aldehydes by Hydrogen Atom Transfer Photocatalysis and Chiral Lewis Acid Catalysis. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 16859-16863.	13.8	96
8	Visible-Light-Activated Asymmetric α -C-H Functionalization of Acceptor-Substituted Ketones with 1,2-Dicarbonyl Compounds. <i>Journal of the American Chemical Society</i> , 2017, 139, 17245-17248.	13.7	85
9	Catalytic asymmetric synthesis of a nitrogen heterocycle through stereocontrolled direct photoreaction from electronically excited state. <i>Nature Communications</i> , 2017, 8, 2245.	12.8	82
10	Preparation of chiral-at-metal catalysts and their use in asymmetric photoredox chemistry. <i>Nature Protocols</i> , 2018, 13, 605-632.	12.0	74
11	Photobiocatalysis for Abiological Transformations. <i>Accounts of Chemical Research</i> , 2022, 55, 1087-1096.	15.6	73
12	Combining the catalytic enantioselective reaction of visible-light-generated radicals with a by-product utilization system. <i>Chemical Science</i> , 2017, 8, 7126-7131.	7.4	67
13	Integrating biocatalysis with chemocatalysis for selective transformations. <i>Current Opinion in Chemical Biology</i> , 2020, 55, 161-170.	6.1	62
14	Visible-Light-Activated Catalytic Enantioselective α -Alkylation of α,β -Unsaturated 2-Acyl Imidazoles Using Hantzsch Esters as Radical Reservoirs. <i>Journal of Organic Chemistry</i> , 2018, 83, 10922-10932.	3.2	60
15	Origins of Enantioselectivity in Asymmetric Radical Additions to Octahedral Chiral-at-Rhodium Enolates: A Computational Study. <i>Journal of the American Chemical Society</i> , 2017, 139, 17902-17907.	13.7	58
16	Photoinduced chemomimetic biocatalysis for enantioselective intermolecular radical conjugate addition. <i>Nature Catalysis</i> , 2022, 5, 586-593.	34.4	50
17	Visible-Light-Activated Enantioselective Perfluoroalkylation with a Chiral Iridium Photoredox Catalyst. <i>Synlett</i> , 2016, 27, 749-753.	1.8	43
18	Asymmetric [3+2] Photocycloadditions of Cyclopropanes with Alkenes or Alkynes through Visible-Light Excitation of Catalyst-Bound Substrates. <i>Angewandte Chemie</i> , 2018, 130, 5552-5556.	2.0	24

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19	Sequential asymmetric hydrogenation and photoredox chemistry with a single catalyst. <i>Organic Chemistry Frontiers</i> , 2018, 5, 166-170.	4.5	24
20	One-Pot Sequential Photoredox Chemistry and Asymmetric Transfer Hydrogenation with a Single Catalyst. <i>European Journal of Organic Chemistry</i> , 2018, 2018, 571-577.	2.4	18
21	Asymmetric Synthesis of 1,4-Dicarbonyl Compounds from Aldehydes by Hydrogen Atom Transfer Photocatalysis and Chiral Lewis Acid Catalysis. <i>Angewandte Chemie</i> , 2019, 131, 17015-17019.	2.0	17
22	Understanding the mechanism of direct visible-light-activated [2 + 2] cycloadditions mediated by Rh and Ir photocatalysts: combined computational and spectroscopic studies. <i>Chemical Science</i> , 2021, 12, 9673-9681.	7.4	16
23	Stereoconvergent Reduction of Activated Alkenes by a Nicotinamide Free Synergistic Photobiocatalytic System. <i>ACS Catalysis</i> , 2020, 10, 9431-9437.	11.2	13
24	Chiral-at-Rhodium Catalyst Containing Two Different Cyclometalating Ligands. <i>Organometallics</i> , 2019, 38, 3948-3954.	2.3	10