Nengchao Luo

List of Publications by Year
in descending order

26 papers	2,681 citations	331259 21 h-index	552369 26 g-index
26 all docs	26 docs citations	26 times ranked	2325 citing authors

#	Article	IF	Citations
1	Photocatalytic transformations of lignocellulosic biomass into chemicals. Chemical Society Reviews, 2020, 49, 6198-6223.	18.7	374
2	Visible-light-driven coproduction of diesel precursors and hydrogen from lignocellulose-derived methylfurans. Nature Energy, 2019, 4, 575-584.	19.8	268
3	Two-Step, Catalytic Câ€“C Bond Oxidative Cleavage Process Converts Lignin Models and Extracts to Aromatic Acids. ACS Catalysis, 2016, 6, 6086-6090.	5.5	207
4	Photocatalytic Cleavage of Câ€“C Bond in Lignin Models under Visible Light on Mesoporous Graphitic Carbon Nitride through Ï€â€“Ï€ Stacking Interaction. ACS Catalysis, 2018, 8, 4761-4771.	5.5	205
5	Visible-Light-Driven Self-Hydrogen Transfer Hydrogenolysis of Lignin Models and Extracts into Phenolic Products. ACS Catalysis, 2017, 7, 4571-4580.	5.5	191
6	Sustainable Productions of Organic Acids and Their Derivatives from Biomass via Selective Oxidative Cleavage of Câ€“C Bond. ACS Catalysis, 2018, 8, 2129-2165.	5.5	188
7	Photocatalytic Oxidationâ€“Hydrogenolysis of Lignin Î²-O-4 Models via a Dual Light Wavelength Switching Strategy. ACS Catalysis, 2016, 6, 7716-7721.	5.5	165
8	Visible Light Gold Nanocluster Photocatalyst: Selective Aerobic Oxidation of Amines to Imines. ACS Catalysis, 2017, 7, 3632-3638.	5.5	165
9	Visible-Light-Induced Oxidative Lignin Câ€“C Bond Cleavage to Aldehydes Using Vanadium Catalysts. ACS Catalysis, 2020, 10, 632-643.	5.5	106
10	Yin and Yang Dual Characters of CuO_x Clusters for Câ€“C Bond Oxidation Driven by Visible Light. ACS Catalysis, 2017, 7, 3850-3859.	5.5	103
11	Enhanced photocatalytic alkane production from fatty acid decarboxylation via inhibition of radical oligomerization. Nature Catalysis, 2020, 3, 170-178.	16.1	93
12	Generation and Confinement of Long-Lived N-Oxyl Radical and Its Photocatalysis. Journal of the American Chemical Society, 2018, 140, 2032-2035.	6.6	89
13	Visible-Light-Driven Selective Oxidation of Toluene into Benzaldehyde over Nitrogen-Modified Nb₂O₅ Nanomeshes. ACS Catalysis, 2020, 10, 1324-1333.	5.5	75
14	Radical generation and fate control for photocatalytic biomass conversion. Nature Reviews Chemistry, 2022, 6, 197-214.	13.8	69
15	New protocol of copper-catalyzed oxidative C(CO) C bond cleavage of aryl and aliphatic ketones to organic acids using O2 as the terminal oxidant. Journal of Catalysis, 2017, 346, 170-179.	3.1	64
16	Photocatalytic Cleavage of Aryl Ether in Modified Lignin to Non-phenolic Aromatics. ACS Catalysis, 2019, 9, 8843-8851.	5.5	55
17	Photocatalytic Coproduction of Deoxybenzoin and H₂ through Tandem Redox Reactions. ACS Catalysis, 2020, 10, 762-769.	5.5	55
18	Photocatalytic coupling of amines to imidazoles using a Moâ€“ZnIn₂S₄ catalyst. Green Chemistry, 2017, 19, 5172-5177.	4.6	44

#	Article	IF	Citations
19	NH₂OHâ€“Mediated Lignin Conversion to Isoxazole and Nitrile. ACS Sustainable Chemistry and Engineering, 2018, 6, 3748-3753.	3.2	39
20	Redox inactive metal ion triggered N-dealkylation by an iron catalyst with dioxygen activation: a lesson from lipoxygenases. Dalton Transactions, 2015, 44, 9847-9859.	1.6	24
21	Amineâ€Mediated Bond Cleavage in Oxidized Lignin Models. ChemSusChem, 2020, 13, 4660-4665.	3.6	22
22	Photocatalytic transfer hydrogenolysis of aromatic ketones using alcohols. Green Chemistry, 2020, 22, 3802-3808.	4.6	19
23	Low-Work Function Metals Boost Selective and Fast Scission of Methanol Câ€“H Bonds. ACS Catalysis, 2022, 12, 6375-6384.	5.5	19
24	Controlling Radical Intermediates in Photocatalytic Conversion of Low-Carbon-Number Alcohols. ACS Sustainable Chemistry and Engineering, 2021, 9, 6188-6202.	3.2	18
25	Advances and Challenges of Photocatalytic Methane Câ€”C Coupling. Chinese Journal of Chemistry, 2022, 40, 1492-1505.	2.6	16
26	Simultaneously Enhanced Activity and Selectivity for C(sp3)â€“H Bond Oxidation Under Visible Light by Nitrogen Doping. Transactions of Tianjin University, 2021, 27, 331-337.	3.3	8