Jianmin Lu

List of Publications by Year
in descending order

#	Article	IF	Citations
1	Visible-light-driven coproduction of diesel precursors and hydrogen from lignocellulose-derived methylfurans. Nature Energy, 2019, 4, 575-584.	39.5	268
2	Two-Step, Catalytic Câ€“C Bond Oxidative Cleavage Process Converts Lignin Models and Extracts to Aromatic Acids. ACS Catalysis, 2016, 6, 6086-6090.	11.2	207
3	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.	11.2	205
4	Visible-Light-Driven Self-Hydrogen Transfer Hydrogenolysis of Lignin Models and Extracts into Phenolic Products. ACS Catalysis, 2017, 7, 4571-4580.	11.2	191
5	Promoting Lignin Depolymerization and Restraining the Condensation via an Oxidationâˆ’Hydrogenation Strategy. ACS Catalysis, 2017, 7, 3419-3429.	11.2	172
6	Acid-Promoter-Free Ethylene Methoxycarbonylation over Ru-Clusters/Ceria: The Catalysis of Interfacial Lewis Acidâ€“Base Pair. Journal of the American Chemical Society, 2018, 140, 4172-4181.	13.7	157
7	Dualâ€Functional Atomic Zinc Decorated Hollow Carbon Nanoreactors for Kinetically Accelerated Polysulfides Conversion and Dendrite Free Lithium Sulfur Batteries. Advanced Energy Materials, 2020, 10, 2002271.	19.5	137
8	Carbon Modification of Nickel Catalyst for Depolymerization of Oxidized Lignin to Aromatics. ACS Catalysis, 2018, 8, 1614-1620.	11.2	134
9	The cascade synthesis of quinazolinones and quinazolines using an Î±-MnO₂ catalyst and tert-butyl hydroperoxide (TBHP) as an oxidant. Chemical Communications, 2015, 51, 9205-9207.	4.1	120
10	Î²-O-4 Bond Cleavage Mechanism for Lignin Model Compounds over Pd Catalysts Identified by Combination of First-Principles Calculations and Experiments. ACS Catalysis, 2016, 6, 5589-5598.	11.2	116
11	Theoretical Investigation of the Reaction Mechanism of the Guaiacol Hydrogenation over a Pt(111) Catalyst. ACS Catalysis, 2015, 5, 2423-2435.	11.2	111
12	Yin and Yang Dual Characters of CuO_{<i>x</i>} Clusters for Câ€“C Bond Oxidation Driven by Visible Light. ACS Catalysis, 2017, 7, 3850-3859.	11.2	103
13	Theoretical investigation of the reaction mechanism of the hydrodeoxygenation of guaiacol over a Ru(0 0 0 1) model surface. Journal of Catalysis, 2015, 321, 39-50.	6.2	100
14	Enhanced photocatalytic alkane production from fatty acid decarboxylation via inhibition of radical oligomerization. Nature Catalysis, 2020, 3, 170-178.	34.4	93
15	Generation and Confinement of Long-Lived <i>N</i>-Oxyl Radical and Its Photocatalysis. Journal of the American Chemical Society, 2018, 140, 2032-2035.	13.7	89
16	Cleavage of the lignin Î²-O-4 ether bond via a dehydroxylationâ€“hydrogenation strategy over a NiMo sulfide catalyst. Green Chemistry, 2016, 18, 6545-6555.	9.0	80
17	Transfer hydrogenation of nitroarenes with hydrazine at near-room temperature catalysed by a MoO₂ catalyst. Green Chemistry, 2016, 18, 2435-2442.	9.0	72
18	Oxidative C(OH) C bond cleavage of secondary alcohols to acids over a copper catalyst with molecular oxygen as the oxidant. Journal of Catalysis, 2017, 348, 160-167.	6.2	72

#	Article	IF	Citations
19	Photo splitting of bio-polyols and sugars to methanol and syngas. Nature Communications, 2020, 11, 1083.	12.8	72
20	Pd₂Sn [010] nanorods as a highly active and stable ethanol oxidation catalyst. Journal of Materials Chemistry A, 2016, 4, 16706-16713.	10.3	65
21	Pr-Doped CeO₂ Catalyst in the Prins Condensationâ€“Hydrolysis Reaction: Are All of the Defect Sites Catalytically Active?. ACS Catalysis, 2018, 8, 2635-2644.	11.2	64
22	Conversion of Isobutene and Formaldehyde to Diol using Praseodymium-Doped CeO₂ Catalyst. ACS Catalysis, 2016, 6, 8248-8254.	11.2	55
23	Photocatalytic Cleavage of Aryl Ether in Modified Lignin to Non-phenolic Aromatics. ACS Catalysis, 2019, 9, 8843-8851.	11.2	55
24	Photocatalytic Coproduction of Deoxybenzoin and H₂ through Tandem Redox Reactions. ACS Catalysis, 2020, 10, 762-769.	11.2	55
25	An investigation of the effects of CeO2 crystal planes on the aerobic oxidative synthesis of imines from alcohols and amines. Chinese Journal of Catalysis, 2015, 36, 1623-1630.	14.0	52
26	Solvent effects on the hydrodeoxygenation of propanoic acid over Pd(111) model surfaces. Green Chemistry, 2014, 16, 605-616.	9.0	51
27	Single Atom Alloy Preparation and Applications in Heterogeneous Catalysis. Chinese Journal of Chemistry, 2019, 37, 977-988.	4.9	47
28	Photocatalytic coupling of amines to imidazoles using a Moâ€“ZnIn₂S₄ catalyst. Green Chemistry, 2017, 19, 5172-5177.	9.0	44
29	Solvation Effects in the Hydrodeoxygenation of Propanoic Acid over a Model Pd(211) Catalyst. Journal of Physical Chemistry C, 2016, 120, 2724-2736.	3.1	40
30	NH₂OHâ€“Mediated Lignin Conversion to Isoxazole and Nitrile. ACS Sustainable Chemistry and Engineering, 2018, 6, 3748-3753.	6.7	39
31	Cuprous Oxide Catalyzed Oxidative Cï£¿C Bond Cleavage for Cï£¿N Bond Formation: Synthesis of Cyclic Imides from Ketones and Amines. Angewandte Chemie - International Edition, 2015, 54, 14061-14065.	13.8	37
32	Solvent effects in the liquid phase hydrodeoxygenation of methyl propionate over a Pd(1 1 1) catalyst model. Journal of Catalysis, 2016, 333, 171-183.	6.2	37
33	Ethylene glycol reforming on Pt(111): first-principles microkinetic modeling in vapor and aqueous phases. Catalysis Science and Technology, 2016, 6, 8242-8256.	4.1	35
34	The cascade synthesis of Î±,Î²-unsaturated ketones via oxidative Câ€“C coupling of ketones and primary alcohols over a ceria catalyst. Catalysis Science and Technology, 2016, 6, 1693-1700.	4.1	32
35	Transfer hydrogenation of nitroarenes to arylamines catalysed by an oxygen-implanted MoS 2 catalyst. Applied Catalysis A: General, 2016, 525, 85-93.	4.3	31
36	Investigation of solvent effects on the hydrodeoxygenation of guaiacol over Ru catalysts. Catalysis Science and Technology, 2019, 9, 6253-6273.	4.1	28

#	Article	IF	Citations
37	Modification of Ni₃N with a Cobalt-Doped Carbon Shell for High-Performance Hydrogen Evolution in Alkaline Media. ACS Sustainable Chemistry and Engineering, 2021, 9, 1994-2002.	6.7	19
38	Theoretical investigation of the hydrodeoxygenation of methyl propionate over Pd (111) model surfaces. Catalysis Science and Technology, 2014, 4, 3981-3992.	4.1	18
39	Capping experiments reveal multiple surface active sites in CeO₂ and their cooperative catalysis. RSC Advances, 2019, 9, 15229-15237.	3.6	17
40	Selective CO₂ Reduction to Formate on a Zn-Based Electrocatalyst Promoted by Tellurium. Chemistry of Materials, 2022, 34, 6036-6047.	6.7	15
41	Efficient Production of Nitrones via One-Pot Reductive Coupling Reactions Using Bimetallic RuPt NPs. ACS Catalysis, 2020, 10, 13701-13709.	11.2	13
42	Ambient sunlight-driven photothermal methanol dehydrogenation for syngas production with 32.9 % solar-to-hydrogen conversion efficiency. IScience, 2021, 24, 102056.	4.1	12
43	Epoxide hydrolysis and alcoholysis reactions over crystalline Moâ€“Vâ€“O oxide. RSC Advances, 2016, 6, 70842-70847.	3.6	11
44	In situ Dispersed Nano-Au on Zr-Suboxides as Active Cathode for Direct CO2 Electroreduction in Solid Oxide Electrolysis Cells. Nano Letters, 2021, 21, 6952-6959.	9.1	10
45	Point defects and mechanical behavior of titanium alloys and intermetallic compounds. Journal of Physics: Conference Series, 2006, 29, 220-227.	0.4	8
46	Oxygen-implanted MoS₂ nanosheets promoting quinoline synthesis from nitroarenes and aliphatic alcohols <i>via</i> an integrated oxidation transfer hydrogenationâ€“cyclization mechanism. Green Chemistry, 2022, 24, 1704-1713.	9.0	7
47	Synthesis of 1,3-Diols from Isobutene and HCHO via Prins Condensation-Hydrolysis Using CeO2 Catalysts: Effects of Crystal Plane and Oxygen Vacancy. Inorganics, 2017, 5, 75.	2.7	5
48	Lithiumâ€“Sulfur Batteries: Dualâ€Functional Atomic Zinc Decorated Hollow Carbon Nanoreactors for Kinetically Accelerated Polysulfides Conversion and Dendrite Free Lithium Sulfur Batteries (Adv.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 29	19.5	4