Xiuyang Lu

List of Publications by Year in descending order

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85 papers	3,645 citations	101543 36 h-index	144013 57 g-index
85 all docs	85 docs citations	85 times ranked	3814 citing authors

#	Article	IF	Citations
1	One-Pot Production of 2,5-Furandimethanol from Fructose Co-catalyzed with Formic Acid and Heterogeneous Co Catalysts. Energy & Fuels, 2022, 36, 480-487.	5.1	3
2	Catalytic Conversion of High Fructose Corn Syrup to Methyl Lactate with CoO@silicalite-1. Catalysts, 2022, 12, 442.	3.5	1
3	Highly selective one-pot production of 2,5-furandimethanol from saccharides. Green Chemistry, 2022, 24, 4935-4940.	9.0	5
4	Encapsulation of CuO nanoparticles within silicalite-1 as a regenerative catalyst for transfer hydrogenation of furfural. IScience, 2021, 24, 102884.	4.1	15
5	Formic acid enabled selectivity boosting in transfer hydrogenation of 5-hydroxymethylfurfural to 2,5-furandimethanol on highly dispersed Coâ€“N_x sites. Catalysis Science and Technology, 2021, 11, 1451-1457.	4.1	19
6	Recent Advances in Catalytic Transfer Hydrogenation with Formic Acid over Heterogeneous Transition Metal Catalysts. ACS Catalysis, 2021, 11, 1071-1095.	11.2	146
7	Selective hydrogenation of furfural to furfuryl alcohol without external hydrogen over N-doped carbon confined Co catalysts. Fuel Processing Technology, 2020, 197, 106205.	7.2	60
8	Bifunctional CuNi/CoOx catalyst for mild-temperature in situ hydrodeoxygenation of fatty acids to alkanes using isopropanol as hydrogen source. Fuel, 2020, 265, 116913.	6.4	35
9	Poly(ethylene oxide) helical conformation and alkali metal cation selectivity studied using electrospray ionization mass spectrometry. Rapid Communications in Mass Spectrometry, 2020, 34, e8719.	1.5	0
10	Heterogeneous Nonâ€noble Catalyst for Highly Selective Production of Linear Î±â€Olefins from Fatty Acids: A Discovery of NiFe/C. ChemSusChem, 2020, 13, 4922-4928.	6.8	14
11	Transfer Hydrogenation of Fatty Acids on Cu/ZrO₂: Demystifying the Role of Carrier Structure and Metalâ€“Support Interface. ACS Catalysis, 2020, 10, 9098-9108.	11.2	50
12	Highly Efficient Production of 5-Methoxymethylfurfural from Fructose in Dimethyl Sulfoxide/Amberlyst-15 Catalytic System. Industrial & Engineering Chemistry Research, 2020, 59, 4905-4911.	3.7	10
13	One-Pot Tandem Dehydrationâ€“Hydrogenation of Xylose with Formic Acid over Co Catalysts. Industrial & Engineering Chemistry Research, 2020, 59, 2754-2760.	3.7	14
14	Tannin-derived bimetallic CuCo/C catalysts for an efficient in-situ hydrogenation of lauric acid in methanol-water media. Fuel Processing Technology, 2020, 205, 106426.	7.2	19
15	Simultaneous Conversion of C₅ and C₆ Sugars into Methyl Levulinate with the Addition of 1,3,5â€Trioxane. ChemSusChem, 2019, 12, 4400-4404.	6.8	13
16	Hydrothermal conversion of the hyperaccumulator Sedum alfredii Hance for efficiently recovering heavy metals and bio-oil. Journal of Environmental Chemical Engineering, 2019, 7, 103321.	6.7	25
17	Beneficial Effect of Water on the Catalytic Conversion of Sugars to Methyl Lactate in Near-Critical Methanol Solutions. Industrial & Engineering Chemistry Research, 2019, 58, 12451-12458.	3.7	7
18	Mechanochemical Nonhydrolytic Solâ€“Gel-Strategy for the Production of Mesoporous Multimetallic Oxides. Chemistry of Materials, 2019, 31, 5529-5536.	6.7	65

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19	Cuâ"Ni Bimetallic Hydroxide Catalyst for Efficient Electrochemical Conversion of 5â€Hydroxymethylfurfural to 2,5â€Furandicarboxylic Acid. ChemElectroChem, 2019, 6, 5797-5801.	3.4	45
20	Synthesis of Composition-Tunable Syngas from Efficiently Electrochemical Conversion of CO₂ over AuCu/CNT Bimetallic Catalyst. Industrial & Engineering Chemistry Research, 2019, 58, 15425-15431.	3.7	14
21	Characterization of polyethermethylsiloxanes using ultra-high performance liquid chromatography-electrospray ionization and time-of-flight mass spectrometry. Analytica Chimica Acta, 2019, 1082, 194-201.	5.4	5
22	Catalytic transfer hydrogenation of oleic acid to octadecanol over magnetic recoverable cobalt catalysts. Green Chemistry, 2019, 21, 314-320.	9.0	63
23	CuZnCoOx multifunctional catalyst for in situ hydrogenation of 5-hydroxymethylfurfural with ethanol as hydrogen carrier. Journal of Catalysis, 2019, 373, 314-321.	6.2	50
24	Optimizing the Aromatic Yield via Catalytic Fast Co-pyrolysis of Rice Straw and Waste Oil over HZSM-5 Catalysts. Energy & Fuels, 2019, 33, 4389-4394.	5.1	12
25	Enhancement of Catalytic Activity by Î³-NiOOH for the Production of Methyl Lactate from Sugars in Near-Critical Methanol Solutions. Industrial & Engineering Chemistry Research, 2019, 58, 3659-3665.	3.7	13
26	Catalytic Fast Pyrolysis of Rice Straw to Aromatics over Hierarchical HZSM-5 Treated with Different Organosilanes. Energy & Fuels, 2019, 33, 307-312.	5.1	17
27	New Insights into the NiO Catalytic Mechanism on the Conversion of Fructose to Methyl Lactate. Catalysis Communications, 2019, 119, 46-50.	3.3	17
28	Confinement of Ultrasmall Cobalt Oxide Clusters within Silicalite-1 Crystals for Efficient Conversion of Fructose into Methyl Lactate. ACS Catalysis, 2019, 9, 1923-1930.	11.2	39
29	Prediction of Carbon Dioxide Adsorption via Deep Learning. Angewandte Chemie, 2019, 131, 265-269.	2.0	45
30	Prediction of Carbon Dioxide Adsorption via Deep Learning. Angewandte Chemie - International Edition, 2019, 58, 259-263.	13.8	74
31	Catalytic in-Situ Hydrogenation of Furfural over Bimetallic Cuâ€"Ni Alloy Catalysts in Isopropanol. Industrial & Engineering Chemistry Research, 2018, 57, 4225-4230.	3.7	65
32	Catalytic fast pyrolysis of rice straw to aromatic compounds over hierarchical HZSM-5 produced by alkali treatment and metal-modification. Journal of Analytical and Applied Pyrolysis, 2018, 131, 76-84.	5.5	80
33	Atomic layer deposition of Pt nanoparticles on low surface area zirconium oxide for the efficient base-free oxidation of 5-hydroxymethylfurfural to 2,5-furandicarboxylic acid. Applied Catalysis A: General, 2018, 555, 98-107.	4.3	56
34	Catalytic conversion of sugars to methyl lactate over Mg-MOF-74 in near-critical methanol solutions. Catalysis Communications, 2018, 110, 23-27.	3.3	42
35	Enhancement in the aromatic yield from the catalytic fast pyrolysis of rice straw over hexadecyl trimethyl ammonium bromide modified hierarchical HZSM-5. Bioresource Technology, 2018, 256, 241-246.	9.6	60
36	In situ hydrogenation and decarboxylation of oleic acid into heptadecane over a Cuâ€"Ni alloy catalyst using methanol as a hydrogen carrier. Green Chemistry, 2018, 20, 197-205.	9.0	142

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37	Catalytic conversion of furfural to methyl levulinate in a single-step route over Zr/SBA-15 in near-critical methanol. Chemical Engineering Journal, 2018, 333, 434-442.	12.7	27
38	Efficient catalytic transfer hydrogenation of furfural to furfuryl alcohol in near-critical isopropanol over Cu/MgO-Al2O3 catalyst. Molecular Catalysis, 2018, 445, 94-101.	2.0	79
39	Controlled synthesis of hierarchical ZSM-5 for catalytic fast pyrolysis of cellulose to aromatics. Journal of Materials Chemistry A, 2018, 6, 21178-21185.	10.3	38
40	Hydrothermal Conversion of Cd-Enriched Rice Straw and Cu-Enriched Elsholtzia splendens with the Aims of Harmless Treatment and Resource Reuse. Industrial & Engineering Chemistry Research, 2018, 57, 15683-15689.	3.7	16
41	Simultaneous Catalytic Conversion of C6 and C5 Sugars to Methyl Lactate in Near-critical Methanol with Metal Chlorides. BioResources, 2018, 13, .	1.0	8
42	Efficient and stable Cu-Ni/ZrO2 catalysts for in situ hydrogenation and deoxygenation of oleic acid into heptadecane using methanol as a hydrogen donor. Fuel, 2018, 230, 211-217.	6.4	66
43	Catalytic decarbonylation of stearic acid to hydrocarbons over activated carbon-supported nickel. Sustainable Energy and Fuels, 2018, 2, 1837-1843.	4.9	21
44	CoZn-ZIF-derived ZnCo₂O₄-framework for the synthesis of alcohols from glycerol. Green Chemistry, 2018, 20, 4299-4307.	9.0	25
45	Catalytic Decarboxylation and Aromatization of Oleic Acid over Ni/AC without an Added Hydrogen Donor. Industrial & Engineering Chemistry Research, 2018, 57, 8443-8448.	3.7	22
46	Controlled release of silyl ether camptothecin from thiol-ene click chemistry-functionalized mesoporous silica nanoparticles. Acta Biomaterialia, 2017, 51, 471-478.	8.3	52
47	Role of Solvent in Catalytic Conversion of Oleic Acid to Aviation Biofuels. Energy & Fuels, 2017, 31, 6163-6172.	5.1	21
48	Catalytic In Situ Hydrogenation of Fatty Acids into Fatty Alcohols over Cu-Based Catalysts with Methanol in Hydrothermal Media. Energy & Fuels, 2017, 31, 12624-12632.	5.1	29
49	Direct Production of Aviation Fuel Range Hydrocarbons and Aromatics from Oleic Acid without an Added Hydrogen Donor. Energy & Fuels, 2016, 30, 7291-7297.	5.1	25
50	Controllable synthesis of SiO ₂ nanoparticles: effects of ammonia and tetraethyl orthosilicate concentration. Micro and Nano Letters, 2016, 11, 885-889.	1.3	13
51	Catalytic Decarboxylation of Fatty Acids to Aviation Fuels over Nickel Supported on Activated Carbon. Scientific Reports, 2016, 6, 27820.	3.3	58
52	Microwave-assisted extraction of lipids from microalgae using an ionic liquid solvent [BMIM][HSO4]. Fuel, 2016, 178, 49-55.	6.4	113
53	Upgrading of aromatic compounds in bio-oil over ultrathin graphene encapsulated Ru nanoparticles. Journal of Materials Chemistry A, 2016, 4, 5842-5848.	10.3	43
54	Adsorption of berberine hydrochloride onto mesoporous carbons with tunable pore size. RSC Advances, 2016, 6, 28219-28228.	3.6	13

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55	Acid-responsive intracellular doxorubicin release from click chemistry functionalized mesoporous silica nanoparticles. RSC Advances, 2015, 5, 30640-30646.	3.6	16
56	Direct production of aviation fuels from microalgae lipids in water. Fuel, 2015, 139, 678-683.	6.4	55
57	Catalytic Decomposition of Glucose to Levulinic Acid by Synergy of Organic Lewis Acid and BrÃ¸nsted Acid in Water. BioResources, 2014, 10, .	1.0	7
58	Isobaric vaporâ€“liquid equilibrium for water+acetic acid+1-butyl-3- methylimidazolium dibutylphosphate at 101.32kPa. Fluid Phase Equilibria, 2014, 363, 220-227.	2.5	13
59	Hydrolysis Kinetics of 2-Pyridinecarboxamide, 3-Pyridinecarboxamide and 4-Pyridinecarboxamide in High-Temperature Water. Chinese Journal of Chemical Engineering, 2014, 22, 1005-1008.	3.5	3
60	Microwave-Assisted Degradation of Lignin Model Compounds in Imidazolium-Based Ionic Liquids. Energy & Fuels, 2014, 28, 1380-1386.	5.1	52
61	Crystallization of Asiaticoside from Total Triterpenoid Saponins of Centella Asiatica in a Methanol + Water System. Industrial & Engineering Chemistry Research, 2014, 53, 14022-14027.	3.7	1
62	Optimization of mesoporous carbons for efficient adsorption of berberine hydrochloride from aqueous solutions. Journal of Colloid and Interface Science, 2014, 424, 104-112.	9.4	18
63	Adsorption of Myricetrin, Puerarin, Naringin, Rutin, and Neohesperidin Dihydrochalcone Flavonoids on Macroporous Resins. Journal of Chemical & Engineering Data, 2013, 58, 2527-2537.	1.9	26
64	Adsorption of alkaloids on ordered mesoporous carbon. Journal of Colloid and Interface Science, 2013, 408, 181-190.	9.4	37
65	Production of aviation fuel via catalytic hydrothermal decarboxylation of fatty acids in microalgae oil. Bioresource Technology, 2013, 146, 569-573.	9.6	65
66	Synergy of Lewis and BrÃ¸nsted Acids on Catalytic Hydrothermal Decomposition of Hexose to Levulinic Acid. Energy & Fuels, 2013, 27, 6973-6978.	5.1	66
67	Hypercrosslinked poly(styrene-co-divinylbenzene) resin as a specific polymeric adsorbent for purification of berberine hydrochloride from aqueous solutions. Journal of Colloid and Interface Science, 2013, 400, 78-87.	9.4	30
68	Adsorption of Berberine Hydrochloride, Ligustrazine Hydrochloride, Colchicine, and Matrine Alkaloids on Macroporous Resins. Journal of Chemical & Engineering Data, 2013, 58, 1271-1279.	1.9	21
69	Hydrothermal decomposition of glucose and fructose with inorganic and organic potassium salts. Bioresource Technology, 2012, 119, 48-54.	9.6	33
70	One-pot preparation of methyl levulinate from catalytic alcoholysis of cellulose in near-critical methanol. Carbohydrate Research, 2012, 358, 37-39.	2.3	46
71	Hydrolysis kinetics of 2â€cyanopyridine, 3â€cyanopyridine, and 4â€cyanopyridine in highâ€temperature water. International Journal of Chemical Kinetics, 2012, 44, 641-648.	1.6	2
72	Adsorption Equilibria of CO₂, CH₄, N₂, O₂, and Ar on High Silica Zeolites. Journal of Chemical & Engineering Data, 2011, 56, 4017-4023.	1.9	73

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73	Activated Carbons for Hydrothermal Decarboxylation of Fatty Acids. ACS Catalysis, 2011, 1, 227-231.	11.2	122
74	Hydrothermal Decarboxylation and Hydrogenation of Fatty Acids over Pt/C. ChemSusChem, 2011, 4, 481-486.	6.8	209
75	SEPARATION AND STRUCTURE DETERMINATION OF CENTELLASAPONIN A AND ITS ISOMER ASIATICOSIDE FROM CENTELLA ASIATICA TOTAL TRITERPENOID SAPONINS. Journal of Liquid Chromatography and Related Technologies, 2011, 34, 1654-1663.	1.0	6
76	Catalytic hydrothermal deoxygenation of palmitic acid. Energy and Environmental Science, 2010, 3, 311.	30.8	213
77	Pt/Solid-Base: A Predominant Catalyst for Glycerol Hydrogenolysis in a Base-Free Aqueous Solution. Catalysis Letters, 2009, 130, 261-265.	2.6	105
78	Hydrothermal Decarboxylation of Pentafluorobenzoic Acid and Quinolinic Acid. Industrial & Engineering Chemistry Research, 2009, 48, 10467-10471.	3.7	12
79	Separation and Determination of Asiaticoside, Asiaticoside-B and Madecassoside in Centella asiatica Total Triterpenoid Saponins by HPLC. Journal of Liquid Chromatography and Related Technologies, 2009, 32, 1891-1900.	1.0	12
80	A convenient synthesis of novel 1,3,4â€triarylâ€3,4â€dihydropyrimidinâ€2(1H)â€ones by cyclization of aromatic isocyanates with Î²â€arylaminoâ€1â€phenylpropanâ€1â€ones. Journal of Heterocyclic Chemistry, 2008, 45, 1095-1098.	1.6	3
81	Enrichment and purification of madecassoside and asiaticoside from Centella asiatica extracts with macroporous resins. Journal of Chromatography A, 2008, 1193, 136-141.	3.7	141
82	Kinetics of Non-catalyzed Decomposition of Glucose in High-temperature Liquid Water. Chinese Journal of Chemical Engineering, 2008, 16, 890-894.	3.5	106
83	Kinetics of Non-catalyzed Decomposition of D-xylose in High Temperature Liquid Water. Chinese Journal of Chemical Engineering, 2007, 15, 666-669.	3.5	126
84	Base-Catalyzed Reactions in NH3-Enriched Near-Critical Water. Industrial & Engineering Chemistry Research, 2006, 45, 4145-4149.	3.7	17
85	Catalytic Conversion of High Fructose Corn Syrup to Methyl Lactate with Coo@Silicalite-1. SSRN Electronic Journal, 0, , .	0.4	0