Changzhi Li

List of Publications by Year
in descending order

57 papers	6,106 citations	94433 37 h-index	133252 59 g-index
64 all docs	64 docs citations	64 times ranked	5369 citing authors

#	Article	IF	Citations
1	Catalytic Transformation of Lignin for the Production of Chemicals and Fuels. Chemical Reviews, 2015, 115, 11559-11624.	47.7	2,200
2	Acid in ionic liquid: An efficient system for hydrolysis of lignocellulose. Green Chemistry, 2008, 10, 177-182.	9.0	417
3	One-pot catalytic hydrocracking of raw woody biomass into chemicals over supported carbide catalysts: simultaneous conversion of cellulose, hemicellulose and lignin. Energy and Environmental Science, 2012, 5, 6383-6390.	30.8	358
4	Efficient Acidâ€Catalyzed Hydrolysis of Cellulose in Ionic Liquid. Advanced Synthesis and Catalysis, 2007, 349, 1847-1850.	4.3	347
5	Direct conversion of glucose and cellulose to 5-hydroxymethylfurfural in ionic liquid under microwave irradiation. Tetrahedron Letters, 2009, 50, 5403-5405.	1.4	279
6	Selective cleavage of lignin and lignin model compounds without external hydrogen, catalyzed by heterogeneous nickel catalysts. Chemical Science, 2019, 10, 4458-4468.	7.4	154
7	Valorization of Lignin to Simple Phenolic Compounds over Tungsten Carbide: Impact of Lignin Structure. ChemSusChem, 2017, 10, 523-532.	6.8	141
8	Efficient conversion of 5-hydroxymethylfurfural to high-value chemicals by chemo- and bio-catalysis. RSC Advances, 2018, 8, 30875-30886.	3.6	130
9	Biomass into chemicals: One-pot production of furan-based diols from carbohydrates via tandem reactions. Catalysis Today, 2014, 234, 59-65.	4.4	107
10	Zeolite-promoted hydrolysis of cellulose in ionic liquid, insight into the mutual behavior of zeolite, cellulose and ionic liquid. Applied Catalysis B: Environmental, 2012, 123-124, 333-338.	20.2	100
11	Production of 5-hydroxymethylfurfural in ionic liquids under high fructose concentration conditions. Carbohydrate Research, 2010, 345, 1846-1850.	2.3	80
12	Selective Production of 1,2â€Propylene Glycol from Jerusalem Artichoke Tuber using Niâ€"W₂C/AC Catalysts. ChemSusChem, 2012, 5, 932-938.	6.8	74
13	Mild Redox-Neutral Depolymerization of Lignin with a Binuclear Rh Complex in Water. ACS Catalysis, 2019, 9, 4441-4447.	11.2	74
14	Tungsten Carbide: A Remarkably Efficient Catalyst for the Selective Cleavage of Lignin Câˆ'O Bonds. ChemSusChem, 2016, 9, 3220-3229.	6.8	72
15	Engineering Co Nanoparticles Supported on Defect MoS_{2â€"<i>x</i>} for Mild Deoxygenation of Lignin-Derived Phenols to Arenes. ACS Energy Letters, 2020, 5, 1330-1336.	17.4	68
16	Sustainable Production of Benzylamines from Lignin. Angewandte Chemie - International Edition, 2021, 60, 20666-20671.	13.8	66
17	Unravelling the enigma of lignin^{OX}: can the oxidation of lignin be controlled?. Chemical Science, 2018, 9, 702-711.	7.4	64
18	Quartz crystal microbalance sensor array for the detection of volatile organic compounds. Talanta, 2009, 78, 711-716.	5.5	62

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19	Cleavage of lignin Câ€“O bonds over a heterogeneous rhenium catalyst through hydrogen transfer reactions. Green Chemistry, 2019, 21, 5556-5564.	9.0	62
20	Efficient hydrolysis of chitosan in ionic liquids. Carbohydrate Polymers, 2009, 78, 685-689.	10.2	61
21	Highly Selective Hydrodeoxygenation of Lignin to Naphthenes over Three-Dimensional Flower-like Ni₂P Derived from Hydrotalcite. ACS Catalysis, 2022, 12, 1338-1356.	11.2	57
22	Microwave-promoted conversion of concentrated fructose into 5-hydroxymethylfurfural in ionic liquids in the absence of catalysts. Biomass and Bioenergy, 2011, 35, 2013-2017.	5.7	55
23	Oneâ€Pot Conversion of Lignin into Naphthenes Catalyzed by a Heterogeneous Rhenium Oxideâ€Modified Iridium Compound. ChemSusChem, 2020, 13, 4409-4419.	6.8	55
24	Green catalytic synthesis of 5-methylfurfural by selective hydrogenolysis of 5-hydroxymethylfurfural over size-controlled Pd nanoparticle catalysts. Catalysis Science and Technology, 2019, 9, 1238-1244.	4.1	54
25	Tungstenâ€Based Bimetallic Catalysts for Selective Cleavage of Lignin Câ^'O Bonds. ChemCatChem, 2018, 10, 415-421.	3.7	52
26	Transition-metal-free synthesis of pyrimidines from lignin Î²-O-4 segments via a one-pot multi-component reaction. Nature Communications, 2022, 13, .	12.8	52
27	Rhodium-terpyridine catalyzed redox-neutral depolymerization of lignin in water. Green Chemistry, 2020, 22, 33-38.	9.0	51
28	Creating Edge Sites within the Basal Plane of a MoS₂ Catalyst for Substantially Enhanced Hydrodeoxygenation Activity. ACS Catalysis, 2022, 12, 8-17.	11.2	50
29	Tailored one-pot production of furan-based fuels from fructose in an ionic liquid biphasic solvent system. Chinese Journal of Catalysis, 2015, 36, 1638-1646.	14.0	48
30	ReO_{<i>x</i>}/AC-Catalyzed Cleavage of Câ€“O Bonds in Lignin Model Compounds and Alkaline Lignins. ACS Sustainable Chemistry and Engineering, 2019, 7, 208-215.	6.7	47
31	Is oxidationâ€“reduction a real robust strategy for lignin conversion? A comparative study on lignin and model compounds. Green Chemistry, 2019, 21, 803-811.	9.0	46
32	Toward Alkylphenols Production: Lignin Depolymerization Coupling with Methoxy Removal over Supported MoS₂ Catalyst. Industrial & Engineering Chemistry Research, 2020, 59, 17287-17299.	3.7	42
33	Ionic liquids used as QCM coating materials for the detection of alcohols. Sensors and Actuators B: Chemical, 2008, 134, 258-265.	7.8	41
34	Scission of Câ€“O and Câ€“C linkages in lignin over RuRe alloy catalyst. Journal of Energy Chemistry, 2022, 67, 492-499.	12.9	41
35	Fabricating high temperature stable Mo-Co9S8/Al2O3 catalyst for selective hydrodeoxygenation of lignin to arenes. Applied Catalysis B: Environmental, 2022, 305, 121067.	20.2	41
36	Selective Production of Renewable <i>para</i>â€Xylene by Tungsten Carbide Catalyzed Atomâ€Economic Cascade Reactions. Angewandte Chemie - International Edition, 2018, 57, 1808-1812.	13.8	39

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37	Microwave-assisted fast conversion of lignin model compounds and organosolv lignin over methyltrioxorhenium in ionic liquids. RSC Advances, 2015, 5, 84967-84973.	3.6	38
38	High Regioselective Diels--Alder Reaction of Myrcene with Acrolein Catalyzed by Zinc-Containing Ionic Liquids. Advanced Synthesis and Catalysis, 2005, 347, 137-142.	4.3	37
39	Effects of Extraction Methods on Structure and Valorization of Corn Stover Lignin by a Pd/C Catalyst. ChemCatChem, 2017, 9, 1135-1143.	3.7	36
40	Upgrading of biomass-derived furanic compounds into high-quality fuels involving aldol condensation strategy. Fuel, 2021, 306, 121765.	6.4	36
41	Enhanced lignin biodegradation by consortium of white rot fungi: microbial synergistic effects and product mapping. Biotechnology for Biofuels, 2021, 14, 162.	6.2	34
42	Perovskite hollow nanospheres for the catalytic wet air oxidation of lignin. Chinese Journal of Catalysis, 2013, 34, 1811-1815.	14.0	31
43	Tungsten-based catalysts for lignin depolymerization: the role of tungsten species in Câ€“O bond cleavage. Catalysis Science and Technology, 2019, 9, 2144-2151.	4.1	28
44	Ultrafast Glycerol Conversion to Lactic Acid over Magnetically Recoverable Niâ€“NiO<i>_x</i>@C Catalysts. Industrial & Engineering Chemistry Research, 2020, 59, 9912-9925.	3.7	26
45	Complete conversion of lignocellulosic biomass to mixed organic acids and ethylene glycol <i>via</i> cascade steps. Green Chemistry, 2021, 23, 2427-2436.	9.0	23
46	Acidâ€“base synergistic catalysis of biochar sulfonic acid bearing polyamide for microwave-assisted hydrolysis of cellulose in water. Cellulose, 2019, 26, 751-762.	4.9	22
47	Selective Cleavage of Câˆ'O Bonds in Lignin Catalyzed by Rhenium(VII) Oxide (Re₂O₇). ChemPlusChem, 2018, 83, 500-505.	2.8	16
48	Ultralow Loading Cobalt-Based Nanocatalyst for Benign and Efficient Aerobic Oxidation of Allylic Alcohols and Biobased Olefins. ACS Sustainable Chemistry and Engineering, 2019, 7, 1901-1908.	6.7	16
49	Photocatalytic Oxidation of 5â€Hydroxymethylfurfural Over Interfacialâ€Enhanced Ag/TiO₂ Under Visible Light Irradiation. ChemSusChem, 2022, 15, e202102158.	6.8	16
50	Selective production of bio-based <i>para</i>-xylene over an FeO_x-modified Pd/Al₂O₃ catalyst. Green Chemistry, 2020, 22, 4341-4349.	9.0	14
51	Selective Production of Toluene from Biomassâ€Derived Isoprene and Acrolein. ChemSusChem, 2016, 9, 3434-3440.	6.8	12
52	Selective Production of Renewable <i>para</i>â€Xylene by Tungsten Carbide Catalyzed Atomâ€Economic Cascade Reactions. Angewandte Chemie, 2018, 130, 1826-1830.	2.0	7
53	Rhodiumâ€terpyridine Catalyzed Transfer Hydrogenation of Aromatic Nitro Compounds in Water. Chemistry - an Asian Journal, 2021, 16, 1725-1729.	3.3	5
54	Fabrication of a solid superacid with temperature-regulated silica-isolated biochar nanosheets. Chinese Journal of Catalysis, 2020, 41, 698-709.	14.0	4

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55	Sustainable Production of Benzylamines from Lignin. Angewandte Chemie, 2021, 133, 20834-20839.	2.0	4
56	Production of Hydroxymethylfurfural Derivatives From Furfural Derivatives via Hydroxymethylation. Frontiers in Bioengineering and Biotechnology, 2022, 10, 851668.	4.1	3
57	Selective Cleavage of Câ^'O Bonds in Lignin Catalyzed by Rhenium(VII) Oxide (Re2 O7). ChemPlusChem, 2018, 83, 479-479.	2.8	0