Songbai Qiu

List of Publications by Year
in descending order

77 papers	3,234 citations	117625 34 h-index	155660 55 g-index
79 all docs	79 docs citations	79 times ranked	3698 citing authors

#	Article	IF	Citations
1	Chitosanâ€“lignin carbon framework-encapsulated Cu catalyst facilitates base-free hydrogen evolution from methanol/water. Catalysis Science and Technology, 2022, 12, 1941-1949.	4.1	12
2	A high-density nickelâ€“cobalt alloy embedded in nitrogen-doped carbon nanosheets for the hydrogen evolution reaction. Nanoscale, 2022, 14, 6202-6211.	5.6	17
3	Selective Hydrogenation of Naphthalene to Decalin Over Surfaceâ€Engineered Î±â€MoC Based on Synergy between Pd Doping and Mo Vacancy Generation. Advanced Functional Materials, 2022, 32, .	14.9	15
4	Visual and Phonological Feature Enhanced Siamese BERT for Chinese Spelling Error Correction. Applied Sciences (Switzerland), 2022, 12, 4578.	2.5	0
5	Phase-transition engineering induced lattice contraction of the molybdenum carbide surface for highly efficient hydrogen evolution reaction. Journal of Materials Chemistry A, 2022, 10, 11414-11425.	10.3	16
6	Direct Construction of K-Fe3C@C Nanohybrids Utilizing Waste Biomass of Pomelo Peel as High-Performance Fischerâ€“Tropsch Catalysts. Catalysts, 2022, 12, 542.	3.5	0
7	Controlling Transformation of Sorbitol into 1-Hexanol over Ru-MoO_x/Mo₂C Catalyst via Aqueous-Phase Hydrodeoxygenation. ACS Sustainable Chemistry and Engineering, 2021, 9, 9033-9044.	6.7	10
8	Upgrading of Aqueous Bioethanol to Higher Alcohols over NiSn/MgAlO Catalyst. ACS Sustainable Chemistry and Engineering, 2021, 9, 11269-11279.	6.7	8
9	Shape Control Synthesis of CuPt Alloys with Enhanced Hydrogen Evolution Reaction and Methanol Oxidation Reaction Activities. ChemNanoMat, 2021, 7, 1200.	2.8	2
10	Aqueous Phase Catalytic Conversion of Ethanol to Higher Alcohols over NiSn Bimetallic Catalysts Encapsulated in Nitrogen-Doped Biorefinery Lignin-Based Carbon. Industrial & Engineering Chemistry Research, 2021, 60, 17959-17969.	3.7	7
11	Consequence of replacing nitrogen with carbon dioxide as atmosphere on suppressing the formation of polycyclic aromatic hydrocarbons in catalytic pyrolysis of sawdust. Bioresource Technology, 2020, 297, 122417.	9.6	20
12	Green Synthesis of Highly Dispersed Ni/SiO₂ Catalysts Using Natural Biomass of Sesbania Powder. Industrial & Engineering Chemistry Research, 2020, 59, 17399-17407.	3.7	12
13	Ring Opening of Cyclic Ether for Selective Synthesis of Renewable 1,5-Pentanediol over Pt/WO₃@SiO₂ Catalysts. Industrial & Engineering Chemistry Research, 2020, 59, 9372-9381.	3.7	22
14	Facile fabrication of porous Fe@C nanohybrids from natural magnetite as excellent Fischerâ€“Tropsch catalysts. Chemical Communications, 2020, 56, 4523-4526.	4.1	9
15	Synergistically Tuning Electronic Structure of Porous Î²â€Mo₂C Spheres by Co Doping and Moâ€Vacancies Defect Engineering for Optimizing Hydrogen Evolution Reaction Activity. Advanced Functional Materials, 2020, 30, 2000561.	14.9	141
16	Preparation and interaction mechanism of Nano disperse dye using hydroxypropyl sulfonated lignin. International Journal of Biological Macromolecules, 2020, 152, 280-287.	7.5	24
17	Interplay of Lewis and BrÃ¸nsted Acid Sites in Zr-Based Metalâ€“Organic Frameworks for Efficient Esterification of Biomass-Derived Levulinic Acid. ACS Applied Materials & Interfaces, 2019, 11, 32090-32096.	8.0	44
18	Compressible, Fatigue Resistant, and Pressure-Sensitive Carbon Aerogels Developed with a Facile Method for Sensors and Electrodes. ACS Sustainable Chemistry and Engineering, 2019, 7, 12726-12733.	6.7	35

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19	High-efficient preparation of gasoline-ranged C5â€“C6 alkanes from biomass-derived sugar polyols of sorbitol over Ru-MoO3â^'x/C catalyst. Fuel Processing Technology, 2019, 183, 19-26.	7.2	37
20	Catalytic cracking of model compounds of bio-oil over HZSM-5 and the catalyst deactivation. Science of the Total Environment, 2018, 631-632, 1611-1622.	8.0	38
21	Influence of Impregnation Processes on Rutheniumâ€“Molybdenum Carbon Catalysts for Selective Hydrodeoxygenation of Biomassâ€Derived Sorbitol into Renewable Alkanes. Energy Technology, 2018, 6, 1763-1770.	3.8	6
22	Hydrodeoxygenation of Sorbitol into Bioâ€Alkanes and â€Alcohols Over Phosphated Ruthenium Molybdenum Catalysts. ChemCatChem, 2018, 10, 5032-5038.	3.7	16
23	Preparation of a Low Reducing Effect Sulfonated Alkali Lignin and Application as Dye Dispersant. Polymers, 2018, 10, 982.	4.5	18
24	One-pot synthesis of carbon-coated Fe₃O₄ nanoparticles with tunable size for production of gasoline fuels. New Journal of Chemistry, 2018, 42, 10861-10867.	2.8	13
25	Influence of Transition Metal on the Hydrogen Evolution Reaction over Nano-Molybdenum-Carbide Catalyst. Catalysts, 2018, 8, 294.	3.5	33
26	Synergistic Effect of EtOAc/H₂O Biphasic Solvent and Ru/C Catalyst for Cornstalk Hydrolysis Residue Depolymerization. ACS Sustainable Chemistry and Engineering, 2017, 5, 2981-2993.	6.7	31
27	Aqueousâ€Phase Hydrodeoxygenation of Biomass Sugar Alcohol into Renewable Alkanes over a Carbonâ€Supported Ruthenium with Phosphoric Acid Catalytic System. ChemCatChem, 2017, 9, 774-781.	3.7	13
28	Simply packaging Ni nanoparticles inside SBA-15 channels by co-impregnation for dry reforming of methane. RSC Advances, 2017, 7, 24551-24560.	3.6	24
29	Production of C₅/C₆ Sugar Alcohols by Hydrolytic Hydrogenation of Raw Lignocellulosic Biomass over Zr Based Solid Acids Combined with Ru/C. ACS Sustainable Chemistry and Engineering, 2017, 5, 5940-5950.	6.7	34
30	Catalytic depolymerization of the hydrolyzed lignin over mesoporous catalysts. Bioresource Technology, 2017, 226, 125-131.	9.6	112
31	Effect of Ru Particle Size on Hydrogenation/Decarbonylation of Propanoic Acid Over Supported Ru Catalysts in Aqueous Phase. Catalysis Letters, 2017, 147, 29-38.	2.6	11
32	Efficient Hydrogenolysis of Guaiacol over Highly Dispersed Ni/MCM-41 Catalyst Combined with HZSM-5. Catalysts, 2016, 6, 134.	3.5	37
33	Intensification effect of peroxide hydrogen on the complete dissolution of lignocellulose under mild conditions. RSC Advances, 2016, 6, 41032-41039.	3.6	5
34	Hydrogenolysis process for lignosulfonate depolymerization using synergistic catalysts of noble metal and metal chloride. RSC Advances, 2016, 6, 88788-88796.	3.6	22
35	Insight into the solvent, temperature and time effects on the hydrogenolysis of hydrolyzed lignin. Bioresource Technology, 2016, 221, 568-575.	9.6	74
36	Comparison of titania nanotube-supported cobalt catalysts prepared by impregnation and homogeneous precipitation for Fischerâ€“Tropsch synthesis. RSC Advances, 2016, 6, 89770-89775.	3.6	6

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37	Effect of the temperature on the dissolution of corn straw in ethanol solution. RSC Advances, 2016, 6, 102306-102314.	3.6	17
38	Catalytic conversion of biomass-derived sorbitol to aromatic compounds. International Journal of Green Energy, 2016, 13, 767-773.	3.8	4
39	Hydrogenation of lignin-derived phenolic compounds over step by step precipitated Ni/SiO₂. RSC Advances, 2016, 6, 5214-5222.	3.6	46
40	Investigation on the structural effect of lignin during the hydrogenolysis process. Bioresource Technology, 2016, 200, 14-22.	9.6	125
41	Active and regioselective rhodium catalyst supported on reduced graphene oxide for 1-hexene hydroformylation. Catalysis Science and Technology, 2016, 6, 1162-1172.	4.1	45
42	Jet-Fuel Range Hydrocarbons from Biomass-Derived Sorbitol over Ni-HZSM-5/SBA-15 Catalyst. Catalysts, 2015, 5, 2147-2160.	3.5	61
43	Preparation of jet fuel range hydrocarbons by catalytic transformation of bio-oil derived from fast pyrolysis of straw stalk. Energy, 2015, 86, 488-499.	8.8	77
44	From lignin to cycloparaffins and aromatics: Directional synthesis of jet and diesel fuel range biofuels using biomass. Bioresource Technology, 2015, 183, 10-17.	9.6	98
45	High yield of renewable hexanes by direct hydrolysisâ€“hydrodeoxygenation of cellulose in an aqueous phase catalytic system. RSC Advances, 2015, 5, 11649-11657.	3.6	38
46	Effects of Ag on morphology and catalytic performance of iron catalysts for Fischerâ€“Tropsch synthesis. RSC Advances, 2015, 5, 58727-58733.	3.6	5
47	One-Pot Catalytic Conversion of Raw Lignocellulosic Biomass into Gasoline Alkanes and Chemicals over LiTaMoO₆ and Ru/C in Aqueous Phosphoric Acid. ACS Sustainable Chemistry and Engineering, 2015, 3, 1745-1755.	6.7	164
48	Efficient synthesis of biofuel precursor with long carbon chains from fructose. RSC Advances, 2015, 5, 58784-58789.	3.6	11
49	Highly activated Ag-doped Fe-based catalysts designed for Fischerâ€“Tropsch synthesis. RSC Advances, 2015, 5, 45426-45430.	3.6	6
50	In situ hydrogenation of furfural with additives over a RANEYÂ® Ni catalyst. RSC Advances, 2015, 5, 91190-91195.	3.6	48
51	Preparation of hierarchical porous-structured Fe₃O₄ microspheres for Fischerâ€“Tropsch synthesis. New Journal of Chemistry, 2015, 39, 8928-8932.	2.8	5
52	Efficient and product-controlled depolymerization of lignin oriented by metal chloride cooperated with Pd/C. Bioresource Technology, 2015, 179, 84-90.	9.6	120
53	Synthesis of shape-controllable cobalt nanoparticles and their shape-dependent performance in glycerol hydrogenolysis. RSC Advances, 2015, 5, 4861-4871.	3.6	36
54	High performance Pd catalyst using silica modified titanate nanotubes (STNT) as support and its catalysis toward hydrogenation of cinnamaldehyde at ambient temperature. RSC Advances, 2014, 4, 63062-63069.	3.6	11

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55	Hydrodeoxygenation of palm oil to hydrocarbon fuels over Ni/SAPO-11 catalysts. Chinese Journal of Catalysis, 2014, 35, 748-756.	14.0	59
56	An efficient and economical process for lignin depolymerization in biomass-derived solvent tetrahydrofuran. Bioresource Technology, 2014, 154, 10-17.	9.6	139
57	Direct degradation of cellulose to 5-hydroxymethylfurfural in hot compressed steam with inorganic acidic salts. RSC Advances, 2014, 4, 4978.	3.6	21
58	Zirconium phosphate combined with Ru/C as a highly efficient catalyst for the direct transformation of cellulose to C₆ alditols. Green Chemistry, 2014, 16, 3305-3312.	9.0	99
59	Direct conversion of cellulose into C₆ alditols over Ru/C combined with H⁺-released boron phosphate in an aqueous phase. RSC Advances, 2014, 4, 52402-52409.	3.6	17
60	One-Pot Degradation of Cellulose into Furfural Compounds in Hot Compressed Steam with Dihydric Phosphates. ACS Sustainable Chemistry and Engineering, 2014, 2, 637-642.	6.7	30
61	Catalytic Upgrading of Bio-oil over Ni-Based Catalysts Supported on Mixed Oxides. Energy & Fuels, 2014, 28, 2562-2570.	5.1	71
62	Pyrolysis and catalytic pyrolysis of industrial lignins by TG-FTIR: Kinetics and products. Journal of Analytical and Applied Pyrolysis, 2014, 108, 295-300.	5.5	81
63	Mechanistic insights into the effects of support on the reaction pathway for aqueous-phase hydrogenation of carboxylic acid over the supported Ru catalysts. Applied Catalysis A: General, 2014, 478, 117-128.	4.3	54
64	Effect of calcination temperature of Ni/SiO2-ZrO2 catalyst on its hydrodeoxygenation of guaiacol. Chinese Journal of Catalysis, 2014, 35, 302-309.	14.0	51
65	Selective production of green light olefins by catalytic conversion of bioâ€oil with Mg/HZSMâ€5 catalyst. Journal of Chemical Technology and Biotechnology, 2013, 88, 109-118.	3.2	32
66	A simple method to prepare highly active and dispersed Ni/MCM-41 catalysts by co-impregnation. Catalysis Communications, 2013, 42, 73-78.	3.3	83
67	High yield production of 5-hydroxymethylfurfural from cellulose by high concentration of sulfates in biphasic system. Green Chemistry, 2013, 15, 1967.	9.0	213
68	Nitrate Combustion Methods to Prepare Highly Active Cu/ZnO Catalysts for Low-Temperature Methanol Synthesis: Comparative Behaviors of Citric Acid in Air or Argon Atmosphere. Bulletin of the Chemical Society of Japan, 2013, 86, 1202-1209.	3.2	3
69	A solâ€“gel auto-combustion method to prepare Cu/ZnO catalysts for low-temperature methanol synthesis. Catalysis Science and Technology, 2012, 2, 2569.	4.1	37
70	Hydrodeoxygenation of Methyl Palmitate over Supported Ni Catalysts for Diesel-like Fuel Production. Energy & Fuels, 2012, 26, 3747-3755.	5.1	144
71	Highly Selective Sorbitol Hydrogenolysis to Liquid Alkanes over Ni/HZSMâ€5 Catalysts Modified with Pure Silica MCMâ€41. ChemCatChem, 2012, 4, 1084-1087.	3.7	52
72	Biomass to dimethyl ether by gasification/synthesis technology-an alternative biofuel production route. Frontiers of Energy and Power Engineering in China, 2010, 5, 330.	0.4	3

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73	Fractioned Preparation of Bio-Oil by Biomass Vacuum Pyrolysis. International Journal of Green Energy, 2010, 7, 263-272.	3.8	19
74	Effects of current upon hydrogen production from electrochemical catalytic reforming of acetic acid. International Journal of Hydrogen Energy, 2009, 34, 1760-1770.	7.1	37
75	An integrated biomass-derived syngas/dimethyl ether process. Korean Journal of Chemical Engineering, 2007, 24, 181-185.	2.7	14
76	Novel Catalyst for Cracking of Biomass Tar. Energy & Fuels, 2005, 19, 22-27.	5.1	79
77	A Kinetic Study on Biomass Fast Catalytic Pyrolysis. Energy & Fuels, 2004, 18, 1865-1869.	5.1	50