

Hao Li

List of Publications by Year in descending order

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51
papers

1,506
citations

304368

22
h-index

329751

37
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51
all docs

51
docs citations

51
times ranked

1197
citing authors

#	ARTICLE	IF	CITATIONS
1	Defect Chemistry in Heterogeneous Catalysis: Recognition, Understanding, and Utilization. ACS Catalysis, 2020, 10, 11082-11098.	5.5	324
2	Effect of pyrolysis temperature on characteristics and aromatic contaminants adsorption behavior of magnetic biochar derived from pyrolysis oil distillation residue. Bioresource Technology, 2017, 223, 20-26.	4.8	117
3	Magic of hydrogen spillover: Understanding and application. Green Energy and Environment, 2022, 7, 1161-1198.	4.7	70
4	Synergy Effects between Oxygen Groups and Defects in Hydrodeoxygenation of Biomass over a Carbon Nanosphere Supported Pd Catalyst. ACS Sustainable Chemistry and Engineering, 2020, 8, 15998-16009.	3.2	64
5	A review on recent advances in catalytic combustion of chlorinated volatile organic compounds. Journal of Chemical Technology and Biotechnology, 2020, 95, 2069-2082.	1.6	51
6	Highly Dispersed Pd on Zeolite/Carbon Nanocomposites for Selective Hydrodeoxygenation of Biomass-Derived Molecules under Mild Conditions. ACS Sustainable Chemistry and Engineering, 2021, 9, 9891-9902.	3.2	48
7	A review and perspective of recent research in biological treatment applied in removal of chlorinated volatile organic compounds from waste air. Chemosphere, 2020, 250, 126338.	4.2	47
8	Controlled Hydrodeoxygenation of Biobased Ketones and Aldehydes over an Alloyed Pd@Zr Catalyst under Mild Conditions. ACS Sustainable Chemistry and Engineering, 2021, 9, 3498-3508.	3.2	44
9	Thermogravimetric investigation of the co-combustion between the pyrolysis oil distillation residue and lignite. Bioresource Technology, 2016, 218, 615-622.	4.8	40
10	Advances in metal/ biochar catalysts for biomass hydro-upgrading: A review. Journal of Cleaner Production, 2021, 303, 126825.	4.6	38
11	Promotional effect of F for Pd/HZSM-5 catalyst on selective HDO of biobased ketones. Renewable Energy, 2021, 179, 1262-1270.	4.3	37
12	Targeted engineering of metal@hollow carbon spheres as nanoreactors for biomass hydrodeoxygenation. Renewable and Sustainable Energy Reviews, 2021, 151, 111582.	8.2	36
13	Promotional effect of doping Cu into cerium-titanium binary oxides catalyst for deep oxidation of gaseous dichloromethane. Chemosphere, 2019, 214, 553-562.	4.2	35
14	Upgrading fast pyrolysis oil: Solvent-anti-solvent extraction and blending with diesel. Energy Conversion and Management, 2016, 110, 378-385.	4.4	33
15	State of the Art and Perspectives in Catalytic Conversion Mechanism of Biomass to Bio-aromatics. Energy & Fuels, 2021, 35, 45-62.	2.5	33
16	Atomic-Scale Tuning of Graphene/Cubic SiC Schottky Junction for Stable Low-Bias Photoelectrochemical Solar-to-Fuel Conversion. ACS Nano, 2020, 14, 4905-4915.	7.3	31
17	Sustainable Routes for the Synthesis of Renewable Adipic Acid from Biomass Derivatives. ChemSusChem, 2022, 15, .	3.6	30
18	Progress in Effects of Microenvironment of Carbon-based Catalysts on Hydrodeoxygenation of Biomass. ChemCatChem, 2021, 13, 1074-1088.	1.8	29

#	ARTICLE	IF	CITATIONS
19	Alcohol-assisted hydrodeoxygenation as a sustainable and cost-effective pathway for biomass derivatives upgrading. <i>Journal of Energy Chemistry</i> , 2022, 73, 133-159.	7.1	28
20	Atom Doping Engineering of Metal/Carbon Catalysts for Biomass Hydrodeoxygenation. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 16531-16555.	3.2	27
21	Hydrogen Spillover-Enhanced Heterogeneously Catalyzed Hydrodeoxygenation for Biomass Upgrading. <i>ChemSusChem</i> , 2022, 15, .	3.6	25
22	Sustainable biomass hydrodeoxygenation in biphasic systems. <i>Green Chemistry</i> , 2022, 24, 1930-1950.	4.6	24
23	Stability evaluation of fast pyrolysis oil from rice straw. <i>Chemical Engineering Science</i> , 2015, 135, 258-265.	1.9	23
24	Improved hydrodeoxygenation of bio-oil model compounds with polymethylhydrosiloxane by Brønsted acidic zeolites. <i>Fuel</i> , 2021, 290, 119883.	3.4	23
25	Enhancing Activity of Ni ₂ P-Based Catalysts by a Yolk-Shell Structure and Transition Metal-Doping for Catalytic Transfer Hydrogenation of Vanillin. <i>Energy & Fuels</i> , 2021, 35, 4158-4168.	2.5	20
26	Experimental and computational study on the compatibility of biodiesel/diesel/methanol blended fuel. <i>Fuel</i> , 2016, 173, 52-59.	3.4	15
27	Water-mediated catalytic hydrodeoxygenation of biomass. <i>Fuel</i> , 2022, 310, 122242.	3.4	15
28	Transforming biomass tar into a highly active Ni-based carbon-supported catalyst for selective hydrogenation-transalkylation of guaiacol. <i>Journal of Analytical and Applied Pyrolysis</i> , 2021, 153, 104976.	2.6	14
29	Renewable Tar-Derived Pd@biocarbon for Mild and Efficient Selectively Hydrodeoxygenation of Vanillin. <i>Energy & Fuels</i> , 2021, 35, 4169-4181.	2.5	14
30	Isobaric (vapour+liquid) equilibria of binary systems containing butyl acetate for the separation of methoxy aromatic compounds (anisole and guaiacol) from biomass fast pyrolysis oil. <i>Journal of Chemical Thermodynamics</i> , 2015, 87, 141-146.	1.0	13
31	Hydrodeoxygenation of vanillin as model compound for pyrolysis oil over carboxylic carbon nanotubes-supported Ni catalysts. <i>Bioresource Technology Reports</i> , 2019, 5, 86-90.	1.5	13
32	Experimental study and CFD numerical simulation of an innovative vapor splitter in dividing wall column. <i>AIChE Journal</i> , 2020, 66, e16266.	1.8	13
33	Defect-rich ZrO ₂ anchored Pd nanoparticles for selective hydrodeoxygenation of bio-models at room temperature. <i>Fuel</i> , 2022, 318, 123529.	3.4	13
34	Toward efficient heterogeneous catalysts for in-situ hydrodeoxygenation of biomass. <i>Fuel</i> , 2022, 320, 123891.	3.4	13
35	Insights into the catalytic performance of Ni/Nb ₂ O ₅ catalysts for vanillin hydrodeoxygenation in aqueous phase: The role of Nb ₂ O ₅ crystal structures. <i>Fuel</i> , 2022, 324, 124400.	3.4	13
36	Zirconium-doped enhanced the biomass hydrodeoxygenation over extremely low-loaded Pd catalysts. <i>Fuel</i> , 2022, 315, 123060.	3.4	12

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37	Hydrodeoxygenation of vanillin to creosol under mild conditions over carbon nanospheres supported palladium catalysts: Influence of the carbon defects on surface of catalysts. <i>Fuel</i> , 2022, 310, 122432.	3.4	11
38	High-Performance Evolution of Ni ₂ P@Hierarchical HZSM-5 as the Guaiacol Hydrodeoxygenation Catalyst. <i>ACS Omega</i> , 2020, 5, 21330-21337.	1.6	9
39	Elimination or Removal of Ethylene for Fruit and Vegetable Storage via Low-Temperature Catalytic Oxidation. <i>Journal of Agricultural and Food Chemistry</i> , 2021, 69, 10419-10439.	2.4	9
40	Slippery Mechanism for Enhancing Separation and Anti-fouling of the Superhydrophobic Membrane in a Water-in-Oil Emulsion: Evaluating Water Adhesion of the Membrane Surface. <i>Langmuir</i> , 2022, 38, 8312-8323.	1.6	8
41	Isobaric (vapour+liquid) equilibria for three binary systems (toluene+anisole, n-butylbenzene+anisole,) Tj ETQq1 1 0,784314 rgBT /Over	1.4	7
42	Metal@hollow carbon sphere nanoreactors for sustainable biomass and CO ₂ valorization. <i>Journal of Materials Chemistry A</i> , 2022, 10, 7557-7603.	5.2	7
43	PEGylation and macroporous carrier adsorption enabled long-term enzymatic transesterification. <i>New Journal of Chemistry</i> , 2020, 44, 3463-3470.	1.4	6
44	Self-support semi-hollow carbon nanosphere supported palladium catalyst for biomass upgrading. <i>Renewable Energy</i> , 2022, 191, 101-109.	4.3	6
45	Experimental Determination and Modeling of Liquid-Liquid Equilibrium for Ternary Mixtures of Ethylene Glycol + 1,2-Butanediol + 3-Heptanone or Anisole. <i>Journal of Chemical & Engineering Data</i> , 2019, 64, 1780-1790.	1.0	5
46	One-Pot Synthesis of Active Carbon-Supported Size-Tunable Ni ₂ P Nanoparticle Catalysts for the Pyrolysis Bio-Oil Upgrade. <i>ACS Omega</i> , 2019, 4, 2075-2080.	1.6	4
47	Isobaric Vapor-Liquid Equilibrium Data for the Acetone + Hexamethyl Disiloxane + Ethyl Acetate Ternary System at 101.3 kPa: Determination and Correlation. <i>Journal of Chemical & Engineering Data</i> , 2018, 63, 3621-3627.	1.0	3
48	Metal catalyzed hydrosilylation reaction for biomass upgrading. <i>Fuel</i> , 2022, 312, 122836.	3.4	3
49	Hydrodeoxygenation of Vanillin over Ni ₂ P/Zeolite Catalysts: Role of Surface Acid Density. <i>Catalysis Letters</i> , 2023, 153, 911-920.	1.4	2
50	Synergistic effect of metal oxidation states and surface acidity enhanced the trace ethylene adsorption of Ag/ZSM-5. <i>New Journal of Chemistry</i> , 2022, 46, 9048-9056.	1.4	1
51	Defective N-Doped Carbon Nanospheres Anchored Pd for Selective Hydrodeoxygenation of Bio-Models under Mild Conditions. <i>Energy Technology</i> , 2022, 10, .	1.8	0