

Xianhui Zhao

List of Publications by Year in descending order

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43
papers

1,975
citations

218677

26
h-index

265206

42
g-index

45
all docs

45
docs citations

45
times ranked

1671
citing authors

#	ARTICLE	IF	CITATIONS
1	Plastic waste upcycling toward a circular economy. <i>Chemical Engineering Journal</i> , 2022, 428, 131928.	12.7	169
2	Application, Deactivation, and Regeneration of Heterogeneous Catalysts in Bio-Oil Upgrading. <i>Catalysts</i> , 2016, 6, 195.	3.5	114
3	Biogas Reforming to Syngas: A Review. <i>IScience</i> , 2020, 23, 101082.	4.1	109
4	Catalytic cracking of camelina oil for hydrocarbon biofuel over ZSM-5-Zn catalyst. <i>Fuel Processing Technology</i> , 2015, 139, 117-126.	7.2	103
5	Critical review of FDM 3D printing of PLA biocomposites filled with biomass resources, characterization, biodegradability, upcycling and opportunities for biorefineries. <i>Applied Materials Today</i> , 2021, 24, 101078.	4.3	100
6	Synthesis, Characterization, and Utilization of a Lignin-Based Adsorbent for Effective Removal of Azo Dye from Aqueous Solution. <i>ACS Omega</i> , 2020, 5, 2865-2877.	3.5	91
7	Highly Efficient Urea Oxidation via Nesting Nano-Nickel Oxide in Eggshell Membrane-Derived Carbon. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 1703-1713.	6.7	85
8	Catalytic cracking of non-edible sunflower oil over ZSM-5 for hydrocarbon bio-jet fuel. <i>New Biotechnology</i> , 2015, 32, 300-312.	4.4	77
9	Review of Heterogeneous Catalysts for Catalytically Upgrading Vegetable Oils into Hydrocarbon Biofuels. <i>Catalysts</i> , 2017, 7, 83.	3.5	77
10	Upgrading pine sawdust pyrolysis oil to green biofuels by HDO over zinc-assisted Pd/C catalyst. <i>Energy Conversion and Management</i> , 2016, 115, 8-16.	9.2	62
11	Recycling of natural fiber composites: Challenges and opportunities. <i>Resources, Conservation and Recycling</i> , 2022, 177, 105962.	10.8	62
12	High-Strength Poly(lactic Acid) (PLA) Biocomposites Reinforced by Epoxy-Modified Pine Fibers. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 13236-13247.	6.7	59
13	Catalytic cracking of carinata oil for hydrocarbon biofuel over fresh and regenerated Zn/Na-ZSM-5. <i>Applied Catalysis A: General</i> , 2015, 507, 44-55.	4.3	58
14	Optimization of catalytic cracking process for upgrading camelina oil to hydrocarbon biofuel. <i>Industrial Crops and Products</i> , 2015, 77, 516-526.	5.2	58
15	Hydroprocessing of carinata oil for hydrocarbon biofuel over Mo-Zn/Al ₂ O ₃ . <i>Applied Catalysis B: Environmental</i> , 2016, 196, 41-49.	20.2	53
16	Poplar as Biofiber Reinforcement in Composites for Large-Scale 3D Printing. <i>ACS Applied Bio Materials</i> , 2019, 2, 4557-4570.	4.6	52
17	Converting pine sawdust to advanced biofuel over HZSM-5 using a two-stage catalytic pyrolysis reactor. <i>Journal of Analytical and Applied Pyrolysis</i> , 2015, 111, 148-155.	5.5	49
18	Hydrodeoxygenation of prairie cordgrass bio-oil over Ni based activated carbon synergistic catalysts combined with different metals. <i>New Biotechnology</i> , 2016, 33, 440-448.	4.4	45

#	ARTICLE	IF	CITATIONS
19	Review on Nonconventional Fibrillation Methods of Producing Cellulose Nanofibrils and Their Applications. <i>Biomacromolecules</i> , 2021, 22, 4037-4059.	5.4	45
20	Development of hydrocarbon biofuel from sunflower seed and sunflower meat oils over ZSM-5. <i>Journal of Renewable and Sustainable Energy</i> , 2016, 8, .	2.0	43
21	Towards industrial-scale production of cellulose nanocomposites using melt processing: A critical review on structure-processing-property relationships. <i>Composites Part B: Engineering</i> , 2020, 201, 108297.	12.0	41
22	Surface-modified and oven-dried microfibrillated cellulose reinforced biocomposites: Cellulose network enabled high performance. <i>Carbohydrate Polymers</i> , 2021, 256, 117525.	10.2	37
23	Poly(lactic acid) Toughening through Chain End Engineering. <i>ACS Applied Polymer Materials</i> , 2020, 2, 411-417.	4.4	34
24	Catalytic cracking of inedible camelina oils to hydrocarbon fuels over bifunctional Zn/ZSM-5 catalysts. <i>Korean Journal of Chemical Engineering</i> , 2015, 32, 1528-1541.	2.7	33
25	Conversion of Prairie Cordgrass to Hydrocarbon Biofuel over CoMo/HZSM-5 Using a Two-Stage Reactor System. <i>Energy Technology</i> , 2016, 4, 706-713.	3.8	33
26	Conversion of landfill gas to liquid fuels through a TriFTS (tri-reforming and Fischer-Tropsch) process. <i>Energy</i> , 2016, 110, 103-110.	4.9	31
27	Directly catalytic upgrading bio-oil vapor produced by prairie cordgrass pyrolysis over Ni/HZSM-5 using a two stage reactor. <i>AIMS Energy</i> , 2015, 3, 227-240.	1.9	26
28	Enhanced conversion efficiency of dye-sensitized titanium dioxide solar cells by Ca-doping. <i>Journal of Alloys and Compounds</i> , 2013, 548, 161-165.	5.5	25
29	Toughening by Nanodroplets: Polymer-Droplet Biocomposite with Anomalous Toughness. <i>Macromolecules</i> , 2020, 53, 4568-4576.	4.8	25
30	NiMg/Ceria-Zirconia Cylindrical Pellet Catalysts for Tri-reforming of Surrogate Biogas. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 845-855.	3.7	22
31	Pretreatment of lignocellulosic feedstocks for cellulose nanofibril production. <i>Cellulose</i> , 2022, 29, 4835-4876.	4.9	22
32	First stage of bio-jet fuel production: non-food sunflower oil extraction using cold press method. <i>AIMS Energy</i> , 2014, 2, 193-209.	1.9	21
33	Bio-treatment of poplar via amino acid for interface control in biocomposites. <i>Composites Part B: Engineering</i> , 2020, 199, 108276.	12.0	16
34	Investigated Cold Press Oil Extraction from Non-Edible Oilseeds for Future Bio-Jet Fuels Production. <i>Journal of Sustainable Bioenergy Systems</i> , 2014, 04, 199-214.	0.8	16
35	Tri-reforming of surrogate biogas over Ni/Mg/ceria-zirconia/alumina pellet catalysts. <i>Chemical Engineering Communications</i> , 2018, 205, 1129-1142.	2.6	15
36	Recycled Cardboard Containers as a Low Energy Source for Cellulose Nanofibrils and Their Use in Poly(lactide) Nanocomposites. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 13460-13470.	6.7	14

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37	Exploiting chitosan to improve the interface of nanocellulose reinforced polymer composites. <i>Cellulose</i> , 2022, 29, 3859-3870.	4.9	12
38	Biofuel production using Pd/Zn synergistically catalyzed hydrodeoxygenation applied at bio oil extracted in biomass pyrolysis process. <i>International Journal of Energy Research</i> , 2016, 40, 1724-1730.	4.5	11
39	Epoxy as Filler or Matrix for Polymer Composites. , 0, , .		9
40	Converting Alkali Lignin to Biofuels over NiO/HZSMâ€5 Catalysts Using a Twoâ€Stage Reactor. <i>Chemical Engineering and Technology</i> , 2017, 40, 1069-1077.	1.5	8
41	Effects of cold press operating conditions on vegetable oil fatty acid profiles. <i>International Journal of Green Energy</i> , 2016, 13, 990-999.	3.8	4
42	Hydrogen bondâ€induced aqueous-phase surface modification of nanocellulose and its mechanically strong composites. <i>Journal of Materials Science</i> , 2022, 57, 8127-8138.	3.7	4
43	Solid Waste Gasification: Comparison of Single- and Multi-Staged Reactors. , 0, , .		2