

Jun Zhao

List of Publications by Year in descending order

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Version: 2024-02-01

41
papers

1,792
citations

331670

21
h-index

289244

40
g-index

41
all docs

41
docs citations

41
times ranked

1990
citing authors

#	ARTICLE	IF	CITATIONS
1	A review of China's municipal solid waste (MSW) and comparison with international regions: Management and technologies in treatment and resource utilization. <i>Journal of Cleaner Production</i> , 2021, 293, 126144.	9.3	289
2	Achieving excellent bandwidth absorption by a mirror growth process of magnetic porous polyhedron structures. <i>Nano Research</i> , 2016, 9, 1813-1822.	10.4	224
3	Efficient dehydration of fructose to 5-hydroxymethylfurfural over sulfonated carbon sphere solid acid catalysts. <i>Catalysis Today</i> , 2016, 264, 123-130.	4.4	124
4	Fe-, Ti-, Zr- and Al-pillared clays for efficient catalytic pyrolysis of mixed plastics. <i>Chemical Engineering Journal</i> , 2017, 317, 800-809.	12.7	112
5	Multiscale characteristics dynamics of hydrochar from hydrothermal conversion of sewage sludge under sub- and near-critical water. <i>Bioresource Technology</i> , 2016, 211, 486-493.	9.6	94
6	Conventional and New Materials for Selective Catalytic Reduction (SCR) of NO _x . <i>ChemCatChem</i> , 2018, 10, 1499-1511.	3.7	83
7	Nanobelt-arrayed vanadium oxide hierarchical microspheres as catalysts for selective oxidation of 5-hydroxymethylfurfural toward 2,5-diformylfuran. <i>Applied Catalysis B: Environmental</i> , 2017, 207, 358-365.	20.2	67
8	MOF-derived nickel and cobalt metal nanoparticles in a N-doped coral shaped carbon matrix of coconut leaf sheath origin for high performance supercapacitors and OER catalysis. <i>Electrochimica Acta</i> , 2018, 265, 336-347.	5.2	64
9	Bifunctional Sulfonated MoO ₃ -ZrO ₂ Binary Oxide Catalysts for the One-Step Synthesis of 2,5-Diformylfuran from Fructose. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 2976-2982.	6.7	57
10	Sulfur-doped g-C ₃ N ₄ for efficient photocatalytic CO ₂ reduction: insights by experiment and first-principles calculations. <i>Catalysis Science and Technology</i> , 2021, 11, 1725-1736.	4.1	51
11	MoO ₃ -Containing Protonated Nitrogen Doped Carbon as a Bifunctional Catalyst for One-Step Synthesis of 2,5-Diformylfuran from Fructose. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 284-291.	6.7	48
12	Vanadium-embedded mesoporous carbon microspheres as effective catalysts for selective aerobic oxidation of 5-hydroxymethyl-2-furfural into 2, 5-diformylfuran. <i>Applied Catalysis A: General</i> , 2018, 568, 16-22.	4.3	46
13	Cr-Encapsulated Keggin Phosphomolybdic Acid as a Catalyst for the One-Pot Synthesis of 2,5-Diformylfuran from Fructose. <i>ChemCatChem</i> , 2017, 9, 1187-1191.	3.7	42
14	Ultra-effective integrated technologies for water disinfection with a novel 0D-2D-3D nanostructured rGO-AgNP/Bi ₂ Fe ₄ O ₉ composite. <i>Applied Catalysis B: Environmental</i> , 2018, 227, 548-556.	20.2	36
15	Banana peel biochar with nanoflake-assembled structure for cross contamination treatment in water: Interaction behaviors between lead and tetracycline. <i>Chemical Engineering Journal</i> , 2021, 420, 129807.	12.7	35
16	Bifunctional carbon nanoplatelets as metal-free catalysts for direct conversion of fructose to 2,5-diformylfuran. <i>Catalysis Science and Technology</i> , 2020, 10, 4179-4183.	4.1	33
17	One-Step Approach to 2,5-Diformylfuran from Fructose over Molybdenum Oxides Supported on Carbon Spheres. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 315-323.	6.7	27
18	Influence of catalyst and solvent on the hydrothermal liquefaction of woody biomass. <i>Bioresource Technology</i> , 2022, 346, 126354.	9.6	26

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19	Synthesis of 3D mesoporous samarium oxide hydrangea microspheres for enzyme-free sensor of hydrogen peroxide. <i>Electrochimica Acta</i> , 2016, 208, 231-237.	5.2	25
20	Mechanistic and kinetic studies on biodiesel production catalyzed by an efficient pyridinium based ionic liquid. <i>Green Chemistry</i> , 2015, 17, 4271-4280.	9.0	24
21	Atomic-thin hexagonal CuCo nanocrystals with d-band tuning for CO ₂ reduction. <i>Journal of Materials Chemistry A</i> , 2021, 9, 7496-7502.	10.3	24
22	An overview of nanomaterial-based novel disinfection technologies for harmful microorganisms: Mechanism, synthesis, devices and application. <i>Science of the Total Environment</i> , 2022, 837, 155720.	8.0	24
23	Carboxymethyl chitosan-poly(amidoamine) dendrimer core-shell nanoparticles for intracellular lysozyme delivery. <i>Carbohydrate Polymers</i> , 2013, 98, 1326-1334.	10.2	23
24	Ultrathin CuNi Nanosheets for CO ₂ Reduction and O ₂ Reduction Reaction in Fuel Cells. , 2021, 3, 1143-1150.		23
25	Recent advances of lignin valorization techniques toward sustainable aromatics and potential benchmarks to fossil refinery products. <i>Bioresource Technology</i> , 2022, 346, 126419.	9.6	22
26	Optimization of water replacement during leachate recirculation for two-phase food waste anaerobic digestion system with off-gas diversion. <i>Bioresource Technology</i> , 2021, 335, 125234.	9.6	21
27	Hydrothermally driven three-dimensional evolution of mesoporous hierarchical europium oxide hydrangea microspheres for non-enzymatic sensors of hydrogen peroxide detection. <i>Environmental Science: Nano</i> , 2016, 3, 701-706.	4.3	15
28	Understanding the role of hydrogen bonding in Brønsted acidic ionic liquid-catalyzed transesterification: a combined theoretical and experimental investigation. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 32723-32734.	2.8	14
29	A Coconut Leaf Sheath Derived Graphitized N-Doped Carbon Network for High-Performance Supercapacitors. <i>ChemElectroChem</i> , 2018, 5, 284-291.	3.4	14
30	Humic Substances Derived From Biomass Waste During Aerobic Composting and Hydrothermal Treatment: A Review. <i>Frontiers in Bioengineering and Biotechnology</i> , 2022, 10, .	4.1	14
31	Small Size Rh Nanoparticles in Micelle Nanostructure by Ionic Liquid/CTAB for Acceptorless Dehydrogenation of Alcohols Only in Pure Water. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 2056-2060.	6.7	13
32	Catalytic Hydrodeoxygenation of Guaiacol to Cyclohexanol over Bimetallic NiMo-MOF-Derived Catalysts. <i>Catalysts</i> , 2022, 12, 371.	3.5	13
33	Effect of Coordination Environment Surrounding a Single Pt Site on the Liquid-Phase Aerobic Oxidation of 5-Hydroxymethylfurfural. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 48582-48594.	8.0	12
34	Hydroxyapatite-based catalysts derived from food waste digestate for efficient glucose isomerization to fructose. <i>Green Synthesis and Catalysis</i> , 2021, 2, 356-361.	6.8	9
35	Controlled Synthesis of 3D Nanoplate-Assembled La ₂ O ₃ Hierarchical Microspheres for Enzyme-Free Detection of Hydrogen Peroxide. <i>Advanced Materials Interfaces</i> , 2016, 3, 1500833.	3.7	8
36	Hierarchical Gadolinium Oxide Microspheres for Enzymeless Electrochemical Biosensors in Hydrogen Peroxide Dynamic Detection. <i>ChemElectroChem</i> , 2017, 4, 272-277.	3.4	8

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37	Effects of hydration parameters on chemical properties of biocrudes based on machine learning and experiments. <i>Bioresource Technology</i> , 2022, 350, 126923.	9.6	8
38	Preparation of Mesoporous Dysprosium Oxide for Dynamic Hydrogen Peroxide Detection without Enzymes. <i>ChemElectroChem</i> , 2017, 4, 96-101.	3.4	7
39	Supermagnetic Mn-substituted $ZnFe_{2}O_{4}$ with AB-site hybridization for the ultra-effective catalytic degradation of azoxystrobin. <i>Catalysis Science and Technology</i> , 2022, 12, 3137-3147.	4.1	5
40	Boosting the performance by the water solvation shell with hydrogen bonds on protonic ionic liquids: insights into the acid catalysis of the glycosidic bond. <i>Catalysis Science and Technology</i> , 2021, 11, 3527-3538.	4.1	4
41	MgO/Carbon nanocomposites synthesized in molten salts for catalytic isomerization of glucose to fructose in aqueous media. <i>Green Chemical Engineering</i> , 2021, , .	6.3	4