Yafei Shen

List of Publications by Year
in descending order

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44 papers	4,152 citations	117571 34 h-index	233338 45 g-index
45 all docs	45 docs citations	45 times ranked	4331 citing authors

#	Article	IF	Citations
1	Recent progresses in catalytic tar elimination during biomass gasification or pyrolysisâ€"A review. Renewable and Sustainable Energy Reviews, 2013, 21, 371-392.	8.2	465
2	In-situ catalytic conversion of tar using rice husk char-supported nickel-iron catalysts for biomass pyrolysis/gasification. Applied Catalysis B: Environmental, 2014, 152-153, 140-151.	10.8	334
3	Chars as carbonaceous adsorbents/catalysts for tar elimination during biomass pyrolysis or gasification. Renewable and Sustainable Energy Reviews, 2015, 43, 281-295.	8.2	304
4	Activated bio-chars derived from rice husk via one- and two-step KOH-catalyzed pyrolysis for phenol adsorption. Science of the Total Environment, 2019, 646, 1567-1577.	3.9	248
5	Carbothermal synthesis of metal-functionalized nanostructures for energy and environmental applications. Journal of Materials Chemistry A, 2015, 3, 13114-13188.	5.2	206
6	Porous silica and carbon derived materials from rice husk pyrolysis char. Microporous and Mesoporous Materials, 2014, 188, 46-76.	2.2	202
7	Rice husk silica derived nanomaterials for sustainable applications. Renewable and Sustainable Energy Reviews, 2017, 80, 453-466.	8.2	191
8	In situ catalytic conversion of tar using rice husk char/ash supported nickelâ€"iron catalysts for biomass pyrolytic gasification combined with the mixing-simulation in fluidized-bed gasifier. Applied Energy, 2015, 160, 808-819.	5.1	175
9	Hydrothermal carbonization of medical wastes and lignocellulosic biomass for solid fuel production from lab-scale to pilot-scale. Energy, 2017, 118, 312-323.	4.5	137
10	By-products recycling for syngas cleanup in biomass pyrolysis â€" An overview. Renewable and Sustainable Energy Reviews, 2016, 59, 1246-1268.	8.2	109
11	Catalytic reforming of pyrolysis tar over metallic nickel nanoparticles embedded in pyrochar. Fuel, 2015, 159, 570-579.	3.4	105
12	CO₂-looping in biomass pyrolysis or gasification. Sustainable Energy and Fuels, 2017, 1, 1700-1729.	2.5	98
13	Waste-to-energy: Dehalogenation of plastic-containing wastes. Waste Management, 2016, 49, 287-303.	3.7	86
14	One-step pyrolysis of lignin and polyvinyl chloride for synthesis of porous carbon and its application for toluene sorption. Bioresource Technology, 2019, 284, 325-332.	4.8	86
15	Rice Husk Silica-Derived Nanomaterials for Battery Applications: A Literature Review. Journal of Agricultural and Food Chemistry, 2017, 65, 995-1004.	2.4	84
16	Tar Conversion and Vapor Upgrading via in Situ Catalysis Using Silica-Based Nickel Nanoparticles Embedded in Rice Husk Char for Biomass Pyrolysis/Gasification. Industrial & Engineering Chemistry Research, 2014, 53, 10929-10942.	1.8	80
17	Pyrolysis and combustion kinetics of lignocellulosic biomass pellets with calcium-rich wastes from agro-forestry residues. Waste Management, 2019, 87, 86-96.	3.7	78
18	Carbon dioxide bio-fixation and wastewater treatment via algae photochemical synthesis for biofuels production. RSC Advances, 2014, 4, 49672-49722.	1.7	76

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19	KOH-activated rice husk char via CO2 pyrolysis for phenol adsorption. Materials Today Energy, 2018, 9, 397-405.	2.5	74
20	Advances in in situ and ex situ tar reforming with biochar catalysts for clean energy production. Sustainable Energy and Fuels, 2018, 2, 326-344.	2.5	73
21	Micro-mesoporous carbons from original and pelletized rice husk via one-step catalytic pyrolysis. Bioresource Technology, 2018, 269, 67-73.	4.8	72
22	Catalytic pyrolysis of biomass with potassium compounds for Co-production of high-quality biofuels and porous carbons. Energy, 2020, 190, 116431.	4.5	66
23	Catalytic pyrolysis of biomass-plastic wastes in the presence of MgO and MgCO3 for hydrocarbon-rich oils production. Bioresource Technology, 2019, 293, 122076.	4.8	62
24	Synergistic effects of oxidation, coagulation and adsorption in the integrated fenton-based process for wastewater treatment: A review. Journal of Environmental Management, 2022, 306, 114460.	3.8	60
25	Toxicological effects of chlorpyrifos on growth, enzyme activity and chlorophyll a synthesis of freshwater microalgae. Environmental Toxicology and Pharmacology, 2016, 45, 179-186.	2.0	59
26	Characteristics and Formation Mechanisms of Fine Particulate Nitrate in Typical Urban Areas in China. Atmosphere, 2017, 8, 62.	1.0	52
27	Thermochemical treatment of non-metallic residues from waste printed circuit board: Pyrolysis vs. combustion. Journal of Cleaner Production, 2018, 176, 1045-1053.	4.6	49
28	Metal nickel nanoparticles in situ generated in rice husk char for catalytic reformation of tar and syngas from biomass pyrolytic gasification. RSC Advances, 2014, 4, 40651-40664.	1.7	48
29	Chemical pyrolysis of E-waste plastics: Char characterization. Journal of Environmental Management, 2018, 214, 94-103.	3.8	46
30	Biomass pyrolysis with alkaline-earth-metal additive for co-production of bio-oil and biochar-based soil amendment. Science of the Total Environment, 2020, 743, 140760.	3.9	44
31	Recycling cathode materials of spent lithium-ion batteries for advanced catalysts production. Journal of Power Sources, 2022, 528, 231220.	4.0	41
32	Catalytic oxidation of nitric oxide (NO) with carbonaceous materials. RSC Advances, 2016, 6, 8469-8482.	1.7	40
33	Activated carbons synthesized from unaltered and pelletized biomass wastes for bio-tar adsorption in different phases. Renewable Energy, 2020, 146, 1700-1709.	4.3	40
34	Effect of chemical pretreatment on pyrolysis of non-metallic fraction recycled from waste printed circuit boards. Waste Management, 2018, 76, 537-543.	3.7	39
35	Synthesis of high-performance hierarchically porous carbons from rice husk for sorption of phenol in the gas phase. Journal of Environmental Management, 2019, 241, 53-58.	3.8	38
36	A facile synthesis of nitrogen-doped porous carbons from lignocellulose and protein wastes for VOCs sorption. Environmental Research, 2020, 189, 109956.	3.7	35

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37	Co-pyrolysis of E-Waste Nonmetallic Residues with Biowastes. ACS Sustainable Chemistry and Engineering, 2018, 6, 9086-9093.	3.2	33
38	Spent lithium-ion battery materials recycling for catalytic pyrolysis or gasification of biomass. Bioresource Technology, 2021, 323, 124584.	4.8	32
39	Catalytic CO₂ Gasification of Rice Husk Char for Syngas and Silica-Based Nickel Nanoparticles Production. Industrial & Engineering Chemistry Research, 2015, 54, 8919-8928.	1.8	22
40	Recycling spent ternary lithium-ion batteries for modification of dolomite used in catalytic biomass pyrolysis â€“ A preliminary study by thermogravimetric and pyrolysis-gas chromatography/mass spectrometry analysis. Bioresource Technology, 2021, 337, 125476.	4.8	21
41	K-looping catalytic pyrolysis of unaltered and pelletized biomass for in situ tar reduction and porous carbon production. Sustainable Energy and Fuels, 2018, 2, 2770-2777.	2.5	14
42	Rice HuskâEDerived Activated Carbons for Adsorption of Phenolic Compounds in Water. Global Challenges, 2018, 2, 1800043.	1.8	11
43	Catalytic pyrolysis of cellulose with biochar modified by Niâ€“Coâ€“Mn cathode material recovered from spent lithium-ion battery. Chemosphere, 2022, 305, 135430.	4.2	8
44	Fractionation of biomass and plastic wastes to value-added products via stepwise pyrolysis: a state-of-art review. Reviews in Chemical Engineering, 2019, .	2.3	3