

Erguang Huo

List of Publications by Year in descending order

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papers

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citing authors

#	ARTICLE	IF	CITATIONS
1	Thermal decomposition and interaction mechanism of HFC-227ea/n-hexane as a zeotropic working fluid for organic Rankine cycle. <i>Energy</i> , 2022, 246, 123435.	8.8	16
2	The combustion mechanism of leaking propane (R290) in O ₂ and O ₂ /H ₂ O environments: ReaxFF molecular dynamics and density functional theory study. <i>Chemical Engineering Research and Design</i> , 2022, 161, 603-610.	5.6	15
3	Improvement of the carbon yield from biomass carbonization through sulfuric acid pre-dehydration at room temperature. <i>Bioresource Technology</i> , 2022, 355, 127251.	9.6	17
4	One-step synthesis of biomass-based sulfonated carbon catalyst by direct carbonization-sulfonation for organosolv delignification. <i>Bioresource Technology</i> , 2021, 319, 124194.	9.6	27
5	Enhanced production of renewable aromatic hydrocarbons for jet-fuel from softwood biomass and plastic waste using hierarchical ZSM-5 modified with lignin-assisted re-assembly. <i>Energy Conversion and Management</i> , 2021, 236, 114020.	9.2	42
6	Thermal stability and pyrolysis products of HFO-1234yf as an environment-friendly working fluid for Organic Rankine Cycle. <i>Energy</i> , 2021, 228, 120564.	8.8	19
7	Lignin-Mediated Preparation of Hierarchical ZSM-5 Catalysts and Their Effects in the Catalytic Co-pyrolysis of Softwood Biomass and Low-Density Polyethylene Mixtures. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 12602-12613.	6.7	18
8	Jet fuel range hydrocarbon production by co-pyrolysis of low density polyethylene and wheat straw over an activated carbon catalyst. <i>Sustainable Energy and Fuels</i> , 2021, 5, 6145-6156.	4.9	9
9	Combustion mechanism of n-pentane, isopentane and neopentane as environmentally friendly working fluids: ReaxFF molecular dynamic simulations study. <i>Theoretical Chemistry Accounts</i> , 2021, 140, 1.	1.4	7
10	Synthesis and characterization of sulfonated activated carbon as a catalyst for bio-jet fuel production from biomass and waste plastics. <i>Bioresource Technology</i> , 2020, 297, 122411.	9.6	75
11	Production of high-density polyethylene biocomposites from rice husk biochar: Effects of varying pyrolysis temperature. <i>Science of the Total Environment</i> , 2020, 738, 139910.	8.0	41
12	Thermal decomposition mechanism of some hydrocarbons by ReaxFF-based molecular dynamics and density functional theory study. <i>Fuel</i> , 2020, 275, 117885.	6.4	53
13	Application of highly stable biochar catalysts for efficient pyrolysis of plastics: a readily accessible potential solution to a global waste crisis. <i>Sustainable Energy and Fuels</i> , 2020, 4, 4614-4624.	4.9	48
14	Experimental and theoretical studies on the thermal stability and decomposition mechanism of HFO-1336mzz(Z) with POE lubricant. <i>Journal of Analytical and Applied Pyrolysis</i> , 2020, 147, 104795.	5.5	13
15	Enhancing jet fuel range hydrocarbons production from catalytic co-pyrolysis of Douglas fir and low-density polyethylene over bifunctional activated carbon catalysts. <i>Energy Conversion and Management</i> , 2020, 211, 112757.	9.2	47
16	Jet fuel and hydrogen produced from waste plastics catalytic pyrolysis with activated carbon and MgO. <i>Science of the Total Environment</i> , 2020, 727, 138411.	8.0	80
17	Phenols production form Douglas fir catalytic pyrolysis with MgO and biomass-derived activated carbon catalysts. <i>Energy</i> , 2020, 199, 117459.	8.8	35
18	Microwave-assisted synthesis of bifunctional magnetic solid acid for hydrolyzing cellulose to prepare nanocellulose. <i>Science of the Total Environment</i> , 2020, 731, 138751.	8.0	12

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19	Optimization of delignification from Douglas fir sawdust by alkaline pretreatment with sodium hydroxide and its effect on structural and chemical properties of lignin and pyrolysis products. <i>Bioresource Technology Reports</i> , 2019, 8, 100339.	2.7	11
20	Thermal stability and decomposition mechanism of HFO-1336mzz(Z) as an environmental friendly working fluid: Experimental and theoretical study. <i>International Journal of Energy Research</i> , 2019, 43, 4630-4643.	4.5	30
21	Influence of water on HFO-1234yf oxidation pyrolysis via ReaxFF molecular dynamics simulation. <i>Molecular Physics</i> , 2019, 117, 1768-1780.	1.7	18
22	Dissociation mechanisms of HFO-1336mzz(Z) on Cu(111), Cu(110) and Cu(100) surfaces: A density functional theory study. <i>Applied Surface Science</i> , 2018, 443, 389-400.	6.1	31
23	A ReaxFF-based molecular dynamics study of the oxidation decomposition mechanism of HFO-1336mzz(Z). <i>International Journal of Refrigeration</i> , 2018, 93, 249-258.	3.4	36
24	A ReaxFF-based molecular dynamics study of the pyrolysis mechanism of HFO-1336mzz(Z). <i>International Journal of Refrigeration</i> , 2017, 83, 118-130.	3.4	68