Erguang Huo

List of Publications by Year
in descending order

24	768	516710 16	610901 24
papers	citations	h-index	g-index

24	24	24	422
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Jet fuel and hydrogen produced from waste plastics catalytic pyrolysis with activated carbon and MgO. Science of the Total Environment, 2020, 727, 138411.	8.0	80
2	Synthesis and characterization of sulfonated activated carbon as a catalyst for bio-jet fuel production from biomass and waste plastics. Bioresource Technology, 2020, 297, 122411.	9.6	75
3	A ReaxFF-based molecular dynamics study of the pyrolysis mechanism of HFO-1336mzz(Z). International Journal of Refrigeration, 2017, 83, 118-130.	3.4	68
4	Thermal decomposition mechanism of some hydrocarbons by ReaxFF-based molecular dynamics and density functional theory study. Fuel, 2020, 275, 117885.	6.4	53
5	Application of highly stable biochar catalysts for efficient pyrolysis of plastics: a readily accessible potential solution to a global waste crisis. Sustainable Energy and Fuels, 2020, 4, 4614-4624.	4.9	48
6	Enhancing jet fuel range hydrocarbons production from catalytic co-pyrolysis of Douglas fir and low-density polyethylene over bifunctional activated carbon catalysts. Energy Conversion and Management, 2020, 211, 112757.	9.2	47
7	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. Energy Conversion and Management, 2021, 236, 114020.	9.2	42
8	Production of high-density polyethylene biocomposites from rice husk biochar: Effects of varying pyrolysis temperature. Science of the Total Environment, 2020, 738, 139910.	8.0	41
9	A ReaxFF-based molecular dynamics study of the oxidation decomposition mechanism of HFO-1336mzz(Z). International Journal of Refrigeration, 2018, 93, 249-258.	3.4	36
10	Phenols production form Douglas fir catalytic pyrolysis with MgO and biomass-derived activated carbon catalysts. Energy, 2020, 199, 117459.	8.8	35
11	Dissociation mechanisms of HFO-1336mzz(Z) on Cu(1â€¯1â€¯1), Cu(1â€¯1â€¯0) and Cu(1â€¯0â€¯0) surfaces: A density functional theory study. Applied Surface Science, 2018, 443, 389-400.	6.1	31
12	Thermal stability and decomposition mechanism of HFOâ€¯1336mzz(Z) as an environmental friendly working fluid: Experimental and theoretical study. International Journal of Energy Research, 2019, 43, 4630-4643.	4.5	30
13	One-step synthesis of biomass-based sulfonated carbon catalyst by direct carbonization-sulfonation for organosolv delignification. Bioresource Technology, 2021, 319, 124194.	9.6	27
14	Thermal stability and pyrolysis products of HFO-1234yf as an environment-friendly working fluid for Organic Rankine Cycle. Energy, 2021, 228, 120564.	8.8	19
15	Influence of water on HFO-1234yf oxidation pyrolysis via ReaxFF molecular dynamics simulation. Molecular Physics, 2019, 117, 1768-1780.	1.7	18
16	Lignin-Mediated Preparation of Hierarchical ZSM-5 Catalysts and Their Effects in the Catalytic Co-pyrolysis of Softwood Biomass and Low-Density Polyethylene Mixtures. ACS Sustainable Chemistry and Engineering, 2021, 9, 12602-12613.	6.7	18
17	Improvement of the carbon yield from biomass carbonization through sulfuric acid pre-dehydration at room temperature. Bioresource Technology, 2022, 355, 127251.	9.6	17
18	Thermal decomposition and interaction mechanism of HFC-227ea/n-hexane as a zeotropic working fluid for organic Rankine cycle. Energy, 2022, 246, 123435.	8.8	16

#	Article	IF	Citations
19	The combustion mechanism of leaking propane (R290) in O2 and O2/H2O environments: ReaxFF molecular dynamics and density functional theory study. Chemical Engineering Research and Design, 2022, 161, 603-610.	5.6	15
20	Experimental and theoretical studies on the thermal stability and decomposition mechanism of HFO-1336mzz(Z) with POE lubricant. Journal of Analytical and Applied Pyrolysis, 2020, 147, 104795.	5.5	13
21	Microwave-assisted synthesis of bifunctional magnetic solid acid for hydrolyzing cellulose to prepare nanocellulose. Science of the Total Environment, 2020, 731, 138751.	8.0	12
22	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. Bioresource Technology Reports, 2019, 8, 100339.	2.7	11
23	Jet fuel range hydrocarbon production by co-pyrolysis of low density polyethylene and wheat straw over an activated carbon catalyst. Sustainable Energy and Fuels, 2021, 5, 6145-6156.	4.9	9
24	Combustion mechanism of n-pentane, isopentane and neopentane as environmentally friendly working fluids: ReaxFF molecular dynamic simulations study. Theoretical Chemistry Accounts, 2021, 140, 1.	1.4	7