

Erwei Leng

List of Publications by Year in descending order

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Version: 2024-02-01

29
papers

1,206
citations

361413

20
h-index

477307

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all docs

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docs citations

29
times ranked

903
citing authors

#	ARTICLE	IF	CITATIONS
1	A review of studies using hydrocarbon adsorption material for reducing hydrocarbon emissions from cold start of gasoline engine. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 135, 110079.	16.4	107
2	A comprehensive review on lignin pyrolysis: Mechanism, modeling and the effects of inherent metals in biomass. <i>Fuel</i> , 2022, 309, 122102.	6.4	95
3	In situ structural changes of crystalline and amorphous cellulose during slow pyrolysis at low temperatures. <i>Fuel</i> , 2018, 216, 313-321.	6.4	93
4	Thermal management technology of power lithium-ion batteries based on the phase transition of materials: A review. <i>Journal of Energy Storage</i> , 2020, 32, 101816.	8.1	79
5	Advanced exergy analysis for Organic Rankine Cycle-based layout to recover waste heat of flue gas. <i>Applied Energy</i> , 2020, 266, 114891.	10.1	75
6	A review on heat enhancement in thermal energy conversion and management using Field Synergy Principle. <i>Applied Energy</i> , 2020, 257, 113995.	10.1	73
7	Effect of KCl and CaCl ₂ loading on the formation of reaction intermediates during cellulose fast pyrolysis. <i>Proceedings of the Combustion Institute</i> , 2017, 36, 2263-2270.	3.9	69
8	Process in supercritical water gasification of coal: A review of fundamentals, mechanisms, catalysts and element transformation. <i>Energy Conversion and Management</i> , 2021, 237, 114122.	9.2	64
9	Experimental investigation on gasification characteristic of food waste using supercritical water for combustible gas production: Exploring the way to complete gasification. <i>Fuel</i> , 2020, 263, 116735.	6.4	55
10	Formation of styrene monomer, dimer and trimer in the primary volatiles produced from polystyrene pyrolysis in a wire-mesh reactor. <i>Fuel</i> , 2016, 182, 333-339.	6.4	46
11	Thermodynamic and exergoeconomic analysis of a novel CO ₂ based combined cooling, heating and power system. <i>Energy Conversion and Management</i> , 2020, 222, 113251.	9.2	36
12	Comparative study on the thermodynamic and economic performance of novel absorption power cycles driven by the waste heat from a supercritical CO ₂ cycle. <i>Energy Conversion and Management</i> , 2021, 228, 113671.	9.2	36
13	Prediction of three-phase product distribution and bio-oil heating value of biomass fast pyrolysis based on machine learning. <i>Energy</i> , 2021, 236, 121401.	8.8	35
14	Pyrolysis characteristics of tobacco stem after different solvent leaching treatments. <i>Journal of Analytical and Applied Pyrolysis</i> , 2018, 130, 350-357.	5.5	34
15	Effects of KCl and CaCl ₂ on the evolution of anhydro sugars in reaction intermediates during cellulose fast pyrolysis. <i>Fuel</i> , 2019, 251, 307-315.	6.4	33
16	Thermal performance of battery thermal management system coupled with phase change material and thermoelectric elements. <i>Journal of Energy Storage</i> , 2021, 43, 103217.	8.1	33
17	Role of different chain end types in pyrolysis of glucose-based anhydro-sugars and oligosaccharides. <i>Fuel</i> , 2018, 234, 738-745.	6.4	29
18	In situ evolution of functional groups in char during cellulose pyrolysis under the catalysis of KCl and CaCl ₂ . <i>Fuel</i> , 2022, 309, 122227.	6.4	29

#	ARTICLE	IF	CITATIONS
19	Review on metal dissolution characteristics and harmful metals recovery from electronic wastes by supercritical water. <i>Journal of Hazardous Materials</i> , 2022, 424, 127693.	12.4	25
20	Effect of reducing ends on the pyrolysis characteristics and product distribution of cellulose. <i>Journal of Analytical and Applied Pyrolysis</i> , 2015, 114, 119-126.	5.5	21
21	Pyrolysis mechanism of β -O-4 type lignin model polymers with different oxygen functional groups on $C_{1\pm}$. <i>Journal of Analytical and Applied Pyrolysis</i> , 2018, 136, 169-177.	5.5	21
22	The Direct Conversion of Cellulose into 5-Hydroxymethylfurfural with $CrCl_3$ Composite Catalyst in Ionic Liquid under Mild Conditions. <i>ChemistrySelect</i> , 2019, 4, 181-189.	1.5	21
23	Enhanced Hg(II) Adsorption by Monocarboxylic-Acid-Modified Microalgae Residuals in Simulated and Practical Industrial Wastewater. <i>Energy & Fuels</i> , 2018, 32, 4461-4468.	5.1	20
24	Proposal and performance assessment of a combined system based on a supercritical carbon dioxide power cycle integrated with a double-effect absorption power cycle. <i>Energy Conversion and Management</i> , 2021, 233, 113923.	9.2	20
25	Effects of KCl, KOH and K_2CO_3 on the pyrolysis of $C_{1\pm}$ -O type lignin-related polymers. <i>Journal of Analytical and Applied Pyrolysis</i> , 2020, 147, 104809.	5.5	19
26	Insights into the Inhibitory Effect of H_2O on Hg-Catalytic Oxidation over the MnO_x -Based Catalysts. <i>ChemistrySelect</i> , 2019, 4, 3259-3265.	1.5	16
27	Study on the mechanisms of epoxy resin gasification in supercritical water by molecular dynamics and experimental methods. <i>Chemical Engineering Journal</i> , 2022, 433, 133828.	12.7	11
28	Experimental and Kinetic Study on CaO-based CO_2 Sorbent Pellets with Different Binders. <i>Energy & Fuels</i> , 2020, 34, 2028-2034.	5.1	7
29	Characterization of Water-Soluble Intermediates and Solid Residues from Fast Pyrolysis of Cellulose in a Wire-Mesh Reactor. <i>BioResources</i> , 2017, 12, .	1.0	4