

Leilei Dai

List of Publications by Year in descending order

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71
papers

4,080
citations

87888

38
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118850

62
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all docs

71
docs citations

71
times ranked

3426
citing authors

#	ARTICLE	IF	CITATIONS
1	Origin of the enhanced open-circuit voltage in polymer solar cells via interfacial modification using conjugated polyelectrolytes. <i>Journal of Materials Chemistry</i> , 2010, 20, 2617.	6.7	222
2	Bio-oil from fast pyrolysis of lignin: Effects of process and upgrading parameters. <i>Bioresource Technology</i> , 2017, 241, 1118-1126.	9.6	195
3	Integrated process of lignocellulosic biomass torrefaction and pyrolysis for upgrading bio-oil production: A state-of-the-art review. <i>Renewable and Sustainable Energy Reviews</i> , 2019, 107, 20-36.	16.4	186
4	Fast microwave-assisted catalytic co-pyrolysis of lignin and low-density polyethylene with HZSM-5 and MgO for improved bio-oil yield and quality. <i>Bioresource Technology</i> , 2017, 225, 199-205.	9.6	169
5	Wet torrefaction of biomass for high quality solid fuel production: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 91, 259-271.	16.4	163
6	A review on selective production of value-added chemicals via catalytic pyrolysis of lignocellulosic biomass. <i>Science of the Total Environment</i> , 2020, 749, 142386.	8.0	145
7	Comparative study on microwave and conventional hydrothermal pretreatment of bamboo sawdust: Hydrochar properties and its pyrolysis behaviors. <i>Energy Conversion and Management</i> , 2017, 146, 1-7.	9.2	133
8	Enhanced open-circuit voltage in polymer solar cells. <i>Applied Physics Letters</i> , 2009, 95, .	3.3	124
9	Synergistic effect of hydrothermal co-carbonization of sewage sludge with fruit and agricultural wastes on hydrochar fuel quality and combustion behavior. <i>Waste Management</i> , 2019, 100, 171-181.	7.4	107
10	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
11	Ex-situ catalytic co-pyrolysis of lignin and polypropylene to upgrade bio-oil quality by microwave heating. <i>Bioresource Technology</i> , 2017, 241, 207-213.	9.6	94
12	Production of bio-oil from agricultural waste by using a continuous fast microwave pyrolysis system. <i>Bioresource Technology</i> , 2018, 269, 162-168.	9.6	93
13	Catalytic fast pyrolysis of torrefied corn cob to aromatic hydrocarbons over Ni-modified hierarchical ZSM-5 catalyst. <i>Bioresource Technology</i> , 2019, 272, 407-414.	9.6	86
14	Production of bio-oil and biochar from soapstock via microwave-assisted co-catalytic fast pyrolysis. <i>Bioresource Technology</i> , 2017, 225, 1-8.	9.6	83
15	Fast microwave-assisted ex-catalytic co-pyrolysis of bamboo and polypropylene for bio-oil production. <i>Bioresource Technology</i> , 2018, 249, 69-75.	9.6	81
16	Hydrocarbon fuel production from soapstock through fast microwave-assisted pyrolysis using microwave absorbent. <i>Journal of Analytical and Applied Pyrolysis</i> , 2016, 119, 251-258.	5.5	77
17	Products evolution during hydrothermal conversion of dewatered sewage sludge in sub- and near-critical water: Effects of reaction conditions and calcium oxide additive. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 5776-5787.	7.1	76
18	Influence of torrefaction pretreatment on corncobs: A study on fundamental characteristics, thermal behavior, and kinetic. <i>Bioresource Technology</i> , 2020, 297, 122490.	9.6	74

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19	Microwave-assisted acid pretreatment of alkali lignin: Effect on characteristics and pyrolysis behavior. <i>Bioresource Technology</i> , 2018, 251, 57-62.	9.6	71
20	Waste shrimp shell-derived hydrochar as an emergent material for methyl orange removal in aqueous solutions. <i>Environment International</i> , 2020, 134, 105340.	10.0	69
21	Syngas production from biomass pyrolysis in a continuous microwave assisted pyrolysis system. <i>Bioresource Technology</i> , 2020, 314, 123756.	9.6	69
22	Biochar: From by-products of agro-industrial lignocellulosic waste to tailored carbon-based catalysts for biomass thermochemical conversions. <i>Chemical Engineering Journal</i> , 2022, 441, 135972.	12.7	69
23	Quantitative iTRAQ-based proteomic analysis of rice grains to assess high night temperature stress. <i>Proteomics</i> , 2017, 17, 1600365.	2.2	66
24	Recent advances in improving lignocellulosic biomass-based bio-oil production. <i>Journal of Analytical and Applied Pyrolysis</i> , 2020, 149, 104845.	5.5	59
25	Review on the catalytic pyrolysis of waste oil for the production of renewable hydrocarbon fuels. <i>Fuel</i> , 2021, 283, 119170.	6.4	58
26	Microwave-assisted catalytic pyrolysis of torrefied corn cob for phenol-rich bio-oil production over Fe modified bio-char catalyst. <i>Journal of Analytical and Applied Pyrolysis</i> , 2019, 143, 104691.	5.5	56
27	Microwave-assisted catalytic fast pyrolysis coupled with microwave-absorbent of soapstock for bio-oil in a downdraft reactor. <i>Energy Conversion and Management</i> , 2019, 185, 11-20.	9.2	55
28	Ex-situ catalytic fast pyrolysis of soapstock for aromatic oil over microwave-driven HZSM-5@SiC ceramic foam. <i>Chemical Engineering Journal</i> , 2020, 402, 126239.	12.7	52
29	Microwave-assisted co-pyrolysis of lignin and waste oil catalyzed by hierarchical ZSM-5/MCM-41 catalyst to produce aromatic hydrocarbons. <i>Bioresource Technology</i> , 2019, 289, 121609.	9.6	51
30	Catalytic co-pyrolysis of waste vegetable oil and high density polyethylene for hydrocarbon fuel production. <i>Waste Management</i> , 2017, 61, 276-282.	7.4	49
31	Microwave-assisted pyrolysis of waste cooking oil for hydrocarbon bio-oil over metal oxides and HZSM-5 catalysts. <i>Energy Conversion and Management</i> , 2020, 220, 113124.	9.2	49
32	Hydrothermal pretreatment of bamboo sawdust using microwave irradiation. <i>Bioresource Technology</i> , 2018, 247, 234-241.	9.6	48
33	Microwave-assisted catalytic fast co-pyrolysis of bamboo sawdust and waste tire for bio-oil production. <i>Journal of Analytical and Applied Pyrolysis</i> , 2017, 123, 224-228.	5.5	46
34	Utilization of Sewage-Sludge-Derived Hydrochars toward Efficient Cocombustion with Different-Rank Coals: Effects of Subcritical Water Conversion and Blending Scenarios. <i>Energy & Fuels</i> , 2014, 28, 6140-6150.	5.1	44
35	Co-pyrolysis of sewage sludge and hydrochar with coals: Pyrolytic behaviors and kinetics analysis using TG-FTIR and a discrete distributed activation energy model. <i>Energy Conversion and Management</i> , 2020, 203, 112226.	9.2	43
36	Characteristics of the catalytic fast pyrolysis of vegetable oil soapstock for hydrocarbon-rich fuel. <i>Energy Conversion and Management</i> , 2020, 213, 112860.	9.2	42

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37	Lignocellulosic biomass pyrolysis for aromatic hydrocarbons production: Pre and in-process enhancement methods. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 165, 112607.	16.4	42
38	Fast microwave-assisted catalytic co-pyrolysis of straw stalk and soapstock for bio-oil production. <i>Journal of Analytical and Applied Pyrolysis</i> , 2017, 124, 35-41.	5.5	40
39	Synthesis of iron nanoparticles-based hydrochar catalyst for ex-situ catalytic microwave-assisted pyrolysis of lignocellulosic biomass to renewable phenols. <i>Fuel</i> , 2020, 279, 118532.	6.4	40
40	Microwave-assisted catalytic fast co-pyrolysis of soapstock and waste tire for bio-oil production. <i>Journal of Analytical and Applied Pyrolysis</i> , 2017, 125, 304-309.	5.5	39
41	Bridging the relationship between hydrothermal pretreatment and co-pyrolysis: Effect of hydrothermal pretreatment on aromatic production. <i>Energy Conversion and Management</i> , 2019, 180, 36-43.	9.2	39
42	Production of hydrocarbon-rich bio-oil from soapstock via fast microwave-assisted catalytic pyrolysis. <i>Journal of Analytical and Applied Pyrolysis</i> , 2017, 125, 356-362.	5.5	37
43	Ex-situ catalytic upgrading of vapors from fast microwave-assisted co-pyrolysis of <i>Chromolaena odorata</i> and soybean soapstock. <i>Bioresource Technology</i> , 2018, 261, 306-312.	9.6	37
44	Microwave-assisted pyrolysis of formic acid pretreated bamboo sawdust for bio-oil production. <i>Environmental Research</i> , 2020, 182, 108988.	7.5	36
45	Catalytic fast pyrolysis of low density polyethylene into naphtha with high selectivity by dual-catalyst tandem catalysis. <i>Science of the Total Environment</i> , 2021, 771, 144995.	8.0	35
46	Microwave-assisted catalytic co-pyrolysis of soybean straw and soapstock for bio-oil production using SiC ceramic foam catalyst. <i>Journal of Analytical and Applied Pyrolysis</i> , 2018, 133, 76-81.	5.5	34
47	Catalytic pyrolysis of woody oil over SiC foam-MCM41 catalyst for aromatic-rich bio-oil production in a dual microwave system. <i>Journal of Cleaner Production</i> , 2020, 255, 120179.	9.3	34
48	Research progress on the role of common metal catalysts in biomass pyrolysis: a state-of-the-art review. <i>Green Chemistry</i> , 2022, 24, 3922-3942.	9.0	34
49	Comparative study on characteristics of the bio-oil from microwave-assisted pyrolysis of lignocellulose and triacylglycerol. <i>Science of the Total Environment</i> , 2019, 659, 95-100.	8.0	33
50	Microwave catalytic co-pyrolysis of waste cooking oil and low-density polyethylene to produce monocyclic aromatic hydrocarbons: Effect of different catalysts and pyrolysis parameters. <i>Science of the Total Environment</i> , 2022, 809, 152182.	8.0	31
51	Microwave-assisted catalytic upgrading of co-pyrolysis vapor using HZSM-5 and MCM-41 for bio-oil production: Co-feeding of soapstock and straw in a downdraft reactor. <i>Bioresource Technology</i> , 2020, 299, 122611.	9.6	30
52	Effect of lime mud on the reaction kinetics and thermodynamics of biomass pyrolysis. <i>Bioresource Technology</i> , 2020, 310, 123475.	9.6	30
53	Design, synthesis and structure-activity relationships of novel 4-phenoxyquinoline derivatives containing pyridazinone moiety as potential antitumor agents. <i>European Journal of Medicinal Chemistry</i> , 2014, 83, 581-593.	5.5	28
54	Microwave-assisted co-pyrolysis of pretreated lignin and soapstock for upgrading liquid oil: Effect of pretreatment parameters on pyrolysis behavior. <i>Bioresource Technology</i> , 2018, 258, 98-104.	9.6	28

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55	Co-pyrolysis of biomass and soapstock in a downdraft reactor using a novel ZSM-5/SiC composite catalyst. <i>Bioresource Technology</i> , 2019, 279, 202-208.	9.6	25
56	Pulse pyrolysis of waste cooking oil over CaO: Exploration of catalyst deactivation pathway based on feedstock characteristics. <i>Applied Catalysis B: Environmental</i> , 2022, 304, 120968.	20.2	25
57	Co-pyrolysis of wet torrefied bamboo sawdust and soapstock. <i>Journal of Analytical and Applied Pyrolysis</i> , 2018, 132, 211-216.	5.5	23
58	Catalytic co-pyrolysis of <i>Alternanthera philoxeroides</i> and peanut soapstock via a new continuous fast microwave pyrolysis system. <i>Waste Management</i> , 2019, 88, 102-109.	7.4	23
59	Microwave-assisted catalytic pyrolysis of corn cobs with Fe-modified <i>Choerospondias axillaris</i> seed-based biochar catalyst for phenol-rich bio-oil. <i>Journal of Analytical and Applied Pyrolysis</i> , 2021, 159, 105306.	5.5	23
60	Integrating pyrolysis and ex-situ catalytic reforming by microwave heating to produce hydrocarbon-rich bio-oil from soybean soapstock. <i>Bioresource Technology</i> , 2020, 302, 122843.	9.6	21
61	Microwave-assisted catalytic pyrolysis of Chinese tallow kernel oil for aromatic production in a downdraft reactor. <i>Journal of Analytical and Applied Pyrolysis</i> , 2018, 133, 16-21.	5.5	20
62	Study on the mechanism of co-catalyzed pyrolysis of biomass by potassium and calcium. <i>Bioresource Technology</i> , 2021, 320, 124415.	9.6	19
63	Co-pyrolysis of microwave-assisted acid pretreated bamboo sawdust and soapstock. <i>Bioresource Technology</i> , 2018, 265, 33-38.	9.6	18
64	Hydrodynamics- and hydrochemistry-affected microbial selenate reduction in aquifer: Performance and mechanisms. <i>Science of the Total Environment</i> , 2021, 768, 145331.	8.0	16
65	Conversion of woody oil into bio-oil in a downdraft reactor using a novel silicon carbide foam supported MCM41 composite catalyst. <i>RSC Advances</i> , 2019, 9, 19729-19739.	3.6	11
66	Pyrolysis of soybean soapstock for hydrocarbon bio-oil over a microwave-responsive catalyst in a series microwave system. <i>Bioresource Technology</i> , 2021, 341, 125800.	9.6	9
67	Conversion of soybean soapstock into hydrocarbon fuel by microwave-assisted catalytic fast pyrolysis using MCM-41/HZSM-5 in a downdraft reactor. <i>Chemical Engineering and Processing: Process Intensification</i> , 2020, 156, 108109.	3.6	8
68	Influence of the volume content of $\hat{1}\pm + \hat{1}^2$ colonies on the very high cycle fatigue behavior of a titanium alloy. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2021, 44, 2643-2658.	3.4	8
69	Behavior Rhythm: A New Model for Behavior Visualization and Its Application in System Security Management. <i>IEEE Access</i> , 2018, 6, 73940-73951.	4.2	3
70	Microwave-Assisted <i>Camellia oleifera</i> Abel Shell Biochar Catalyzed Fast Pyrolysis of Waste Vegetable Oil to Produce Aromatic-Rich Bio-Oil. <i>Frontiers in Energy Research</i> , 2022, 10, .	2.3	3
71	Very high cycle fatigue strength and failure mechanisms of welded joints. <i>The Proceedings of Conference of Kyushu Branch</i> , 2017, 2017.70, 812.	0.0	0