Kaixu Li

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

69 papers	9,202 citations	33 h-index	70 g-index
70 ext. papers	11,153 ext. citations	8.4 avg, IF	6.4 L-index

#	Paper	IF	Citations
69	Characteristics of hemicellulose, cellulose and lignin pyrolysis. *Fuel*, **2007**, 86, 1781-1788	7.1	4492
68	Lignocellulosic biomass pyrolysis mechanism: A state-of-the-art review. *Progress in Energy and Combustion Science*, **2017**, 62, 33-86	33.6	1182
67	In-Depth Investigation of Biomass Pyrolysis Based on Three Major Components: Hemicellulose, Cellulose and Lignin. *Energy & Fuels*, **2006**, 20, 388-393	4.1	768
66	Biomass-based pyrolytic polygeneration system on cotton stalk pyrolysis: influence of temperature. *Bioresource Technology*, **2012**, 107, 411-8	11	279
65	Thermogravimetric Analysis–Fourier Transform Infrared Analysis of Palm Oil Waste Pyrolysis. *Energy & Fuels*, **2004**, 18, 1814-1821	4.1	221
64	Transformation of Nitrogen and Evolution of N-Containing Species during Algae Pyrolysis. *Environmental Science & Technology*, **2017**, 51, 6570-6579	10.3	149
63	Mechanism of Palm Oil Waste Pyrolysis in a Packed Bed. *Energy & Fuels*, **2006**, 20, 1321-1328	4.1	133
62	The structure evolution of biochar from biomass pyrolysis and its correlation with gas pollutant adsorption performance. *Bioresource Technology*, **2017**, 246, 101-109	11	122
61	Co-pyrolysis of lignocellulosic biomass and microalgae: Products characteristics and interaction effect. *Bioresource Technology*, **2017**, 245, 860-868	11	86
60	Thermal behavior and reaction kinetics analysis of pyrolysis and subsequent in-situ gasification of torrefied biomass pellets. *Energy Conversion and Management*, **2018**, 161, 205-214	10.6	78
59	Investigation on biomass nitrogen-enriched pyrolysis: Influence of temperature. *Bioresource Technology*, **2018**, 249, 247-253	11	77
58	Biomass pyrolysis for nitrogen-containing liquid chemicals and nitrogen-doped carbon materials. *Journal of Analytical and Applied Pyrolysis*, **2016**, 120, 186-193	6	77
57	Biomass-Based Pyrolytic Polygeneration System for Bamboo Industry Waste: Evolution of the Char Structure and the Pyrolysis Mechanism. *Energy & Fuels*, **2016**, 30, 6430-6439	4.1	75
56	The densification of bio-char: Effect of pyrolysis temperature on the qualities of pellets. *Bioresource Technology*, **2016**, 200, 521-7	11	73
55	Influence of physicochemical properties of metal modified ZSM-5 catalyst on benzene, toluene and xylene production from biomass catalytic pyrolysis. *Bioresource Technology*, **2019**, 278, 248-254	11	71
54	Co-pyrolysis of microalgae and plastic: Characteristics and interaction effects. *Bioresource Technology*, **2019**, 274, 145-152	11	66
53	Co-gasification of coal and biomass: Synergy, characterization and reactivity of the residual char. *Bioresource Technology*, **2017**, 244, 1-7	11	62

52	Mechanism of biomass activation and ammonia modification for nitrogen-doped porous carbon materials. *Bioresource Technology*, **2019**, 280, 260-268	11	58
51	Bamboo wastes catalytic pyrolysis with N-doped biochar catalyst for phenols products. *Applied Energy*, **2020**, 260, 114242	10.7	58
50	Influence of Biochar Addition on Nitrogen Transformation during Copyrolysis of Algae and Lignocellulosic Biomass. *Environmental Science & Technology*, **2018**, 52, 9514-9521	10.3	54
49	Insight into KOH activation mechanism during biomass pyrolysis: Chemical reactions between O-containing groups and KOH. *Applied Energy*, **2020**, 278, 115730	10.7	54
48	Application of biomass pyrolytic polygeneration technology using retort reactors. *Bioresource Technology*, **2016**, 200, 64-71	11	53
47	The effects of contact time and coking on the catalytic fast pyrolysis of cellulose. *Green Chemistry*, **2017**, 19, 286-297	10	50
46	Effect of deashing on activation process and lead adsorption capacities of sludge-based biochar. *Science of the Total Environment*, **2020**, 716, 137016	10.2	50
45	Investigation on co-pyrolysis of lignocellulosic biomass and amino acids using TG-FTIR and Py-GC/MS. *Energy Conversion and Management*, **2019**, 196, 320-329	10.6	48
44	Synthesis and characterization of magnesium oxide nanoparticle-containing biochar composites for efficient phosphorus removal from aqueous solution. *Chemosphere*, **2020**, 247, 125847	8.4	44
43	Influence of NH concentration on biomass nitrogen-enriched pyrolysis. *Bioresource Technology*, **2018**, 263, 350-357	11	44
42	Correlation of Feedstock and Bio-oil Compound Distribution. *Energy & Fuels*, **2017**, 31, 7093-7100	4.1	43
41	The conversion of biomass to light olefins on Fe-modified ZSM-5 catalyst: Effect of pyrolysis parameters. *Science of the Total Environment*, **2018**, 628-629, 350-357	10.2	41
40	Preparation of mesoporous ZSM-5 catalysts using green templates and their performance in biomass catalytic pyrolysis. *Bioresource Technology*, **2019**, 289, 121729	11	38
39	Effects of potassium salts loading on calcium oxide on the hydrogen production from pyrolysis-gasification of biomass. *Bioresource Technology*, **2018**, 249, 744-750	11	37
38	Effect of Carboxymethyl Cellulose Binder on the Quality of Biomass Pellets. *Energy & Fuels*, **2016**, 30, 5799-5808	4.1	34
37	Enhancing the production of light olefins and aromatics from catalytic fast pyrolysis of cellulose in a dual-catalyst fixed bed reactor. *Bioresource Technology*, **2019**, 273, 77-85	11	34
36	Preparation of nitrogen-doped microporous modified biochar by high temperature CO2NH3 treatment for CO2 adsorption: effects of temperature. *RSC Advances*, **2016**, 6, 98157-98166	3.7	33
35	Bimetallic carbon nanotube encapsulated Fe-Ni catalysts from fast pyrolysis of waste plastics and their oxygen reduction properties. *Waste Management*, **2020**, 109, 119-126	8.6	26

34	Co-pyrolysis of microalgae with low-density polyethylene (LDPE) for deoxygenation and denitrification. *Bioresource Technology*, **2020**, 311, 123502	11	25
33	Preparation of Iron- and Nitrogen-Codoped Carbon Nanotubes from Waste Plastics Pyrolysis for the Oxygen Reduction Reaction. *ChemSusChem*, **2020**, 13, 938-944	8.3	25
32	Catalytic Upgrading of Fast Pyrolysis Products with Fe-, Zr-, and Co-Modified Zeolites Based on Pyrolyzer□C/MS Analysis. *Energy & Fuels*, **2017**, 31, 3979-3986	4.1	23
31	Study on intrinsic reaction behavior and kinetics during reduction of iron ore pellets by utilization of biochar. *Energy Conversion and Management*, **2018**, 158, 1-8	10.6	23
30	Role of porous structure and active O-containing groups of activated biochar catalyst during biomass catalytic pyrolysis. *Energy*, **2020**, 210, 118646	7.9	23
29	Pyrolysis of Chinese chestnut shells: Effects of temperature and Fe presence on product composition. *Bioresource Technology*, **2019**, 287, 121444	11	22
28	Experimental and modeling study of potassium catalyzed gasification of woody char pellet with CO2. *Energy*, **2019**, 171, 678-688	7.9	21
27	Lignin Characterization and Catalytic Pyrolysis for Phenol-Rich Oil with TiO2-Based Catalysts. *Energy & Fuels*, **2019**, 33, 9934-9941	4.1	16
26	Nano nickel embedded in N-doped CNTs-supported porous biochar for adsorption-reduction of hexavalent chromium. *Journal of Hazardous Materials*, **2021**, 416, 125693	12.8	16
25	Cellulose Pyrolysis Mechanism Based on Functional Group Evolutions by Two-Dimensional Perturbation Correlation Infrared Spectroscopy. *Energy & Fuels*, **2020**, 34, 3412-3421	4.1	15
24	Effects of biomass pyrolysis derived wood vinegar on microbial activity and communities of activated sludge. *Bioresource Technology*, **2019**, 279, 252-261	11	14
23	Effect of Torrefaction on Properties of Pellets Produced from Woody Biomass. *Energy & Fuels*, **2020**, 34, 15343-15354	4.1	14
22	Effects of biomass pyrolysis derived wood vinegar (WVG) on extracellular polymeric substances and performances of activated sludge. *Bioresource Technology*, **2019**, 274, 25-32	11	14
21	Influence of Biochar on the Steam Reforming of Biomass Volatiles: Effects of Activation Temperature and Atmosphere. *Energy & Fuels*, **2019**, 33, 2328-2334	4.1	13
20	Inert chemical looping conversion of biochar with iron ore as oxygen carrier: Products conversion kinetics and structural evolution. *Bioresource Technology*, **2019**, 275, 53-60	11	13
19	Life Cycle Assessment and Economic Analysis of Biomass Energy Technology in China: A Brief Review. *Processes*, **2020**, 8, 1112	2.9	12
18	Organic salt-assisted pyrolysis for preparation of porous carbon from cellulose, hemicellulose and lignin: New insight from structure evolution. *Fuel*, **2021**, 291, 120185	7.1	12
17	Temperature-dependent magnesium citrate modified formation of MgO nanoparticles biochar composites with efficient phosphate removal. *Chemosphere*, **2021**, 274, 129904	8.4	11

16	Synergetic effect of magnesium citrate and temperature on the product characteristics of waste lotus seedpod pyrolysis. *Bioresource Technology*, **2020**, 305, 123079	11	10
15	Production of furfural and levoglucosan from typical agricultural wastes via pyrolysis coupled with hydrothermal conversion: Influence of temperature and raw materials. *Waste Management*, **2020**, 114, 43-52	8.6	10
14	Catalytic pyrolysis of hemicellulose for the production of light olefins and aromatics over Fe modified ZSM-5 catalysts. *Cellulose*, **2019**, 26, 8489-8500	5.5	8
13	One-pot hydrothermal synthesis of dual metal incorporated CuCe-SAPO-34 zeolite for enhancing ammonia selective catalytic reduction. *Journal of Hazardous Materials*, **2021**, 405, 124177	12.8	8
12	Reduction of fine particulate matter emissions from cornstalk combustion by calcium phosphates additives. *Fuel*, **2021**, 283, 119303	7.1	7
11	Lignin pyrolysis under NH3 atmosphere for 4-vinylphenol product: An experimental and theoretical study. *Fuel*, **2021**, 297, 120776	7.1	7
10	Enhancing the Production of Light Olefins from Wheat Straw with Modified HZSM-5 Catalytic Pyrolysis. *Energy & Fuels*, **2019**, 33, 11263-11273	4.1	6
9	Application of Carbon Nanotubes from Waste Plastics As Filler to Epoxy Resin Composite.. *ACS Sustainable Chemistry and Engineering*, **2022**, 10, 2204-2213	8.3	5
8	Effects of acid and metal salt additives on product characteristics of biomass microwave pyrolysis. *Journal of Renewable and Sustainable Energy*, **2016**, 8, 063103	2.5	5
7	High-value products from ex-situ catalytic pyrolysis of polypropylene waste using iron-based catalysts: the influence of support materials. *Waste Management*, **2021**, 136, 47-56	8.6	4
6	The critical role of anions in the porous biochar structure and potassium release during the potassium-assisted pyrolysis process. *Green Chemistry*,	10	3
5	Effects of the physicochemical properties of biochar and soil on moisture sorption. *Journal of Renewable and Sustainable Energy*, **2016**, 8, 064702	2.5	2
4	Study on the physicochemical structure and gasification reactivity of chars from pyrolysis of biomass pellets under different heating rates. *Fuel*, **2022**, 314, 122789	7.1	1
3	Pyrolysis Chemistry and Mechanisms: Interactions of Primary Components. *Biofuels and Biorefineries*, **2020**, 113-137	0.3	1
2	Dynamic modeling with experimental calibration for the syngas production from biomass fixed-bed gasification. *AICHE Journal*, **2021**, 67, e17366	3.6	1
1	Pyrolysis of boron-crosslinked lignin: influence on lignin softening and product properties.. *Bioresource Technology*, **2022**, 127218	11	1