

Kaixu Li

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/3457438/kaixu-li-publications-by-year.pdf>

Version: 2024-04-11

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	Application of Carbon Nanotubes from Waste Plastics As Filler to Epoxy Resin Composite.. <i>ACS Sustainable Chemistry and Engineering</i> , 2022 , 10, 2204-2213	8.3	5
68	Study on the physicochemical structure and gasification reactivity of chars from pyrolysis of biomass pellets under different heating rates. <i>Fuel</i> , 2022 , 314, 122789	7.1	1
67	Pyrolysis of boron-crosslinked lignin: influence on lignin softening and product properties.. <i>Bioresource Technology</i> , 2022 , 127218	11	1
66	High-value products from ex-situ catalytic pyrolysis of polypropylene waste using iron-based catalysts: the influence of support materials. <i>Waste Management</i> , 2021 , 136, 47-56	8.6	4
65	Organic salt-assisted pyrolysis for preparation of porous carbon from cellulose, hemicellulose and lignin: New insight from structure evolution. <i>Fuel</i> , 2021 , 291, 120185	7.1	12
64	Temperature-dependent magnesium citrate modified formation of MgO nanoparticles biochar composites with efficient phosphate removal. <i>Chemosphere</i> , 2021 , 274, 129904	8.4	11
63	Reduction of fine particulate matter emissions from cornstalk combustion by calcium phosphates additives. <i>Fuel</i> , 2021 , 283, 119303	7.1	7
62	One-pot hydrothermal synthesis of dual metal incorporated CuCe-SAPO-34 zeolite for enhancing ammonia selective catalytic reduction. <i>Journal of Hazardous Materials</i> , 2021 , 405, 124177	12.8	8
61	Dynamic modeling with experimental calibration for the syngas production from biomass fixed-bed gasification. <i>AIChE Journal</i> , 2021 , 67, e17366	3.6	1
60	Nano nickel embedded in N-doped CNTs-supported porous biochar for adsorption-reduction of hexavalent chromium. <i>Journal of Hazardous Materials</i> , 2021 , 416, 125693	12.8	16
59	Lignin pyrolysis under NH ₃ atmosphere for 4-vinylphenol product: An experimental and theoretical study. <i>Fuel</i> , 2021 , 297, 120776	7.1	7
58	Cellulose Pyrolysis Mechanism Based on Functional Group Evolutions by Two-Dimensional Perturbation Correlation Infrared Spectroscopy. <i>Energy & Fuels</i> , 2020 , 34, 3412-3421	4.1	15
57	Synergetic effect of magnesium citrate and temperature on the product characteristics of waste lotus seedpod pyrolysis. <i>Bioresource Technology</i> , 2020 , 305, 123079	11	10
56	Effect of deashing on activation process and lead adsorption capacities of sludge-based biochar. <i>Science of the Total Environment</i> , 2020 , 716, 137016	10.2	50
55	Pyrolysis Chemistry and Mechanisms: Interactions of Primary Components. <i>Biofuels and Biorefineries</i> , 2020 , 113-137	0.3	1
54	Co-pyrolysis of microalgae with low-density polyethylene (LDPE) for deoxygenation and denitrification. <i>Bioresource Technology</i> , 2020 , 311, 123502	11	25
53	Bimetallic carbon nanotube encapsulated Fe-Ni catalysts from fast pyrolysis of waste plastics and their oxygen reduction properties. <i>Waste Management</i> , 2020 , 109, 119-126	8.6	26

52	Synthesis and characterization of magnesium oxide nanoparticle-containing biochar composites for efficient phosphorus removal from aqueous solution. <i>Chemosphere</i> , 2020 , 247, 125847	8.4	44
51	Preparation of Iron- and Nitrogen-Codoped Carbon Nanotubes from Waste Plastics Pyrolysis for the Oxygen Reduction Reaction. <i>ChemSusChem</i> , 2020 , 13, 938-944	8.3	25
50	Bamboo wastes catalytic pyrolysis with N-doped biochar catalyst for phenols products. <i>Applied Energy</i> , 2020 , 260, 114242	10.7	58
49	Life Cycle Assessment and Economic Analysis of Biomass Energy Technology in China: A Brief Review. <i>Processes</i> , 2020 , 8, 1112	2.9	12
48	Role of porous structure and active O-containing groups of activated biochar catalyst during biomass catalytic pyrolysis. <i>Energy</i> , 2020 , 210, 118646	7.9	23
47	Production of furfural and levoglucosan from typical agricultural wastes via pyrolysis coupled with hydrothermal conversion: Influence of temperature and raw materials. <i>Waste Management</i> , 2020 , 114, 43-52	8.6	10
46	Effect of Torrefaction on Properties of Pellets Produced from Woody Biomass. <i>Energy & Fuels</i> , 2020 , 34, 15343-15354	4.1	14
45	Insight into KOH activation mechanism during biomass pyrolysis: Chemical reactions between O-containing groups and KOH. <i>Applied Energy</i> , 2020 , 278, 115730	10.7	54
44	Catalytic pyrolysis of hemicellulose for the production of light olefins and aromatics over Fe modified ZSM-5 catalysts. <i>Cellulose</i> , 2019 , 26, 8489-8500	5.5	8
43	Lignin Characterization and Catalytic Pyrolysis for Phenol-Rich Oil with TiO ₂ -Based Catalysts. <i>Energy & Fuels</i> , 2019 , 33, 9934-9941	4.1	16
42	Experimental and modeling study of potassium catalyzed gasification of woody char pellet with CO ₂ . <i>Energy</i> , 2019 , 171, 678-688	7.9	21
41	Influence of physicochemical properties of metal modified ZSM-5 catalyst on benzene, toluene and xylene production from biomass catalytic pyrolysis. <i>Bioresource Technology</i> , 2019 , 278, 248-254	11	71
40	Effects of biomass pyrolysis derived wood vinegar on microbial activity and communities of activated sludge. <i>Bioresource Technology</i> , 2019 , 279, 252-261	11	14
39	Investigation on co-pyrolysis of lignocellulosic biomass and amino acids using TG-FTIR and Py-GC/MS. <i>Energy Conversion and Management</i> , 2019 , 196, 320-329	10.6	48
38	Pyrolysis of Chinese chestnut shells: Effects of temperature and Fe presence on product composition. <i>Bioresource Technology</i> , 2019 , 287, 121444	11	22
37	Influence of Biochar on the Steam Reforming of Biomass Volatiles: Effects of Activation Temperature and Atmosphere. <i>Energy & Fuels</i> , 2019 , 33, 2328-2334	4.1	13
36	Mechanism of biomass activation and ammonia modification for nitrogen-doped porous carbon materials. <i>Bioresource Technology</i> , 2019 , 280, 260-268	11	58
35	Preparation of mesoporous ZSM-5 catalysts using green templates and their performance in biomass catalytic pyrolysis. <i>Bioresource Technology</i> , 2019 , 289, 121729	11	38

34	Enhancing the Production of Light Olefins from Wheat Straw with Modified HZSM-5 Catalytic Pyrolysis. <i>Energy & Fuels</i> , 2019 , 33, 11263-11273	4.1	6
33	Co-pyrolysis of microalgae and plastic: Characteristics and interaction effects. <i>Bioresource Technology</i> , 2019 , 274, 145-152	11	66
32	Inert chemical looping conversion of biochar with iron ore as oxygen carrier: Products conversion kinetics and structural evolution. <i>Bioresource Technology</i> , 2019 , 275, 53-60	11	13
31	Enhancing the production of light olefins and aromatics from catalytic fast pyrolysis of cellulose in a dual-catalyst fixed bed reactor. <i>Bioresource Technology</i> , 2019 , 273, 77-85	11	34
30	Effects of biomass pyrolysis derived wood vinegar (WVG) on extracellular polymeric substances and performances of activated sludge. <i>Bioresource Technology</i> , 2019 , 274, 25-32	11	14
29	The conversion of biomass to light olefins on Fe-modified ZSM-5 catalyst: Effect of pyrolysis parameters. <i>Science of the Total Environment</i> , 2018 , 628-629, 350-357	10.2	41
28	Thermal behavior and reaction kinetics analysis of pyrolysis and subsequent in-situ gasification of torrefied biomass pellets. <i>Energy Conversion and Management</i> , 2018 , 161, 205-214	10.6	78
27	Study on intrinsic reaction behavior and kinetics during reduction of iron ore pellets by utilization of biochar. <i>Energy Conversion and Management</i> , 2018 , 158, 1-8	10.6	23
26	Effects of potassium salts loading on calcium oxide on the hydrogen production from pyrolysis-gasification of biomass. <i>Bioresource Technology</i> , 2018 , 249, 744-750	11	37
25	Investigation on biomass nitrogen-enriched pyrolysis: Influence of temperature. <i>Bioresource Technology</i> , 2018 , 249, 247-253	11	77
24	Influence of Biochar Addition on Nitrogen Transformation during Copyrolysis of Algae and Lignocellulosic Biomass. <i>Environmental Science & Technology</i> , 2018 , 52, 9514-9521	10.3	54
23	Influence of NH concentration on biomass nitrogen-enriched pyrolysis. <i>Bioresource Technology</i> , 2018 , 263, 350-357	11	44
22	Transformation of Nitrogen and Evolution of N-Containing Species during Algae Pyrolysis. <i>Environmental Science & Technology</i> , 2017 , 51, 6570-6579	10.3	149
21	Lignocellulosic biomass pyrolysis mechanism: A state-of-the-art review. <i>Progress in Energy and Combustion Science</i> , 2017 , 62, 33-86	33.6	1182
20	Correlation of Feedstock and Bio-oil Compound Distribution. <i>Energy & Fuels</i> , 2017 , 31, 7093-7100	4.1	43
19	Catalytic Upgrading of Fast Pyrolysis Products with Fe-, Zr-, and Co-Modified Zeolites Based on Pyrolyzer-IC/MS Analysis. <i>Energy & Fuels</i> , 2017 , 31, 3979-3986	4.1	23
18	The effects of contact time and coking on the catalytic fast pyrolysis of cellulose. <i>Green Chemistry</i> , 2017 , 19, 286-297	10	50
17	The structure evolution of biochar from biomass pyrolysis and its correlation with gas pollutant adsorption performance. <i>Bioresource Technology</i> , 2017 , 246, 101-109	11	122

16	Co-pyrolysis of lignocellulosic biomass and microalgae: Products characteristics and interaction effect. <i>Bioresource Technology</i> , 2017 , 245, 860-868	11	86
15	Co-gasification of coal and biomass: Synergy, characterization and reactivity of the residual char. <i>Bioresource Technology</i> , 2017 , 244, 1-7	11	62
14	Effect of Carboxymethyl Cellulose Binder on the Quality of Biomass Pellets. <i>Energy & Fuels</i> , 2016 , 30, 5799-5808	4.1	34
13	Application of biomass pyrolytic polygeneration technology using retort reactors. <i>Bioresource Technology</i> , 2016 , 200, 64-71	11	53
12	The densification of bio-char: Effect of pyrolysis temperature on the qualities of pellets. <i>Bioresource Technology</i> , 2016 , 200, 521-7	11	73
11	Effects of acid and metal salt additives on product characteristics of biomass microwave pyrolysis. <i>Journal of Renewable and Sustainable Energy</i> , 2016 , 8, 063103	2.5	5
10	Effects of the physicochemical properties of biochar and soil on moisture sorption. <i>Journal of Renewable and Sustainable Energy</i> , 2016 , 8, 064702	2.5	2
9	Biomass pyrolysis for nitrogen-containing liquid chemicals and nitrogen-doped carbon materials. <i>Journal of Analytical and Applied Pyrolysis</i> , 2016 , 120, 186-193	6	77
8	Biomass-Based Pyrolytic Polygeneration System for Bamboo Industry Waste: Evolution of the Char Structure and the Pyrolysis Mechanism. <i>Energy & Fuels</i> , 2016 , 30, 6430-6439	4.1	75
7	Preparation of nitrogen-doped microporous modified biochar by high temperature CO ₂ /NH ₃ treatment for CO ₂ adsorption: effects of temperature. <i>RSC Advances</i> , 2016 , 6, 98157-98166	3.7	33
6	Biomass-based pyrolytic polygeneration system on cotton stalk pyrolysis: influence of temperature. <i>Bioresource Technology</i> , 2012 , 107, 411-8	11	279
5	Characteristics of hemicellulose, cellulose and lignin pyrolysis. <i>Fuel</i> , 2007 , 86, 1781-1788	7.1	4492
4	Mechanism of Palm Oil Waste Pyrolysis in a Packed Bed. <i>Energy & Fuels</i> , 2006 , 20, 1321-1328	4.1	133
3	In-Depth Investigation of Biomass Pyrolysis Based on Three Major Components: Hemicellulose, Cellulose and Lignin. <i>Energy & Fuels</i> , 2006 , 20, 388-393	4.1	768
2	Thermogravimetric Analysis/Fourier Transform Infrared Analysis of Palm Oil Waste Pyrolysis. <i>Energy & Fuels</i> , 2004 , 18, 1814-1821	4.1	221
1	The critical role of anions in the porous biochar structure and potassium release during the potassium-assisted pyrolysis process. <i>Green Chemistry</i> ,	10	3