

Xianglan Bai

List of Publications by Year in descending order

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46
papers

2,748
citations

186265

28
h-index

223800

46
g-index

51
all docs

51
docs citations

51
times ranked

2801
citing authors

#	ARTICLE	IF	CITATIONS
1	Co-conversion of wood and polyvinyl chloride to valuable chemicals and high-quality solid fuel. <i>Waste Management</i> , 2022, 144, 376-386.	7.4	7
2	Comparative study of the solvolytic deconstruction of corn stover lignin in batch and flow-through reactors. <i>Green Chemistry</i> , 2021, 23, 7731-7742.	9.0	17
3	Upcycling polyamide containing post-consumer Tetra Pak carton packaging to valuable chemicals and recyclable polymer. <i>Waste Management</i> , 2021, 131, 423-432.	7.4	18
4	Enabling high-quality carbon fiber through transforming lignin into an orientable and melt-spinnable polymer. <i>Journal of Cleaner Production</i> , 2021, 307, 127252.	9.3	18
5	Towards producing high-quality lignin-based carbon fibers: A review of crucial factors affecting lignin properties and conversion techniques. <i>International Journal of Biological Macromolecules</i> , 2021, 189, 768-784.	7.5	52
6	An experimental study on the detrimental effects of deicing fluids on the performance of icephobic coatings for aircraft icing mitigation. <i>Aerospace Science and Technology</i> , 2021, 119, 107090.	4.8	18
7	Thermal treatment of pyrolytic lignin and polyethylene terephthalate toward carbon fiber production. <i>Journal of Applied Polymer Science</i> , 2020, 137, 48843.	2.6	11
8	Tunable Wettability of Biodegradable Multilayer Sandwich-Structured Electrospun Nanofibrous Membranes. <i>Polymers</i> , 2020, 12, 2092.	4.5	12
9	Plasma electrolysis of cellulose in polar aprotic solvents for production of levoglucosenone. <i>Green Chemistry</i> , 2020, 22, 7871-7883.	9.0	11
10	Insights into Structural Changes of Lignin toward Tailored Properties during Deep Eutectic Solvent Pretreatment. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 9783-9793.	6.7	72
11	Low-pressure two-stage catalytic hydrolysis of lignin and lignin-derived phenolic monomers using zeolite-based bifunctional catalysts. <i>Journal of Analytical and Applied Pyrolysis</i> , 2020, 146, 104779.	5.5	26
12	Producing high yield of levoglucosan by pyrolyzing nonthermal plasma-pretreated cellulose. <i>Green Chemistry</i> , 2020, 22, 2036-2048.	9.0	20
13	One-pot selective conversion of lignocellulosic biomass into furfural and co-products using aqueous choline chloride/methyl isobutyl ketone biphasic solvent system. <i>Bioresource Technology</i> , 2019, 289, 121708.	9.6	45
14	Agricultural residue-derived lignin as the filler of polylactic acid composites and the effect of lignin purity on the composite performance. <i>Journal of Applied Polymer Science</i> , 2019, 136, 47915.	2.6	29
15	Controlled Radical Polymerization of Crude Lignin Bio-oil Containing Multihydroxyl Molecules for Methacrylate Polymers and the Potential Applications. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 9050-9060.	6.7	19
16	Anisotropic thermal conductivities and structure in lignin-based microscale carbon fibers. <i>Carbon</i> , 2019, 147, 58-69.	10.3	37
17	Synergistic enhancement of product quality through fast co-pyrolysis of acid pretreated biomass and waste plastic. <i>Energy Conversion and Management</i> , 2018, 164, 629-638.	9.2	66
18	Potential of producing carbon fiber from biorefinery corn stover lignin with high ash content. <i>Journal of Applied Polymer Science</i> , 2018, 135, 45736.	2.6	39

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19	Production of biofuel precursor chemicals from the mixture of cellulose and polyvinylchloride in polar aprotic solvent. <i>Waste Management</i> , 2018, 78, 894-902.	7.4	17
20	High-Solid Lignocellulose Processing Enabled by Natural Deep Eutectic Solvent for Lignin Extraction and Industrially Relevant Production of Renewable Chemicals. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 12205-12216.	6.7	137
21	Solubilized Carbohydrate Production by Acid-Catalyzed Depolymerization of Cellulose in Polar Aprotic Solvents. <i>ChemistrySelect</i> , 2018, 3, 4777-4785.	1.5	17
22	Thermal conductivity and annealing effect on structure of lignin-based microscale carbon fibers. <i>Carbon</i> , 2017, 121, 35-47.	10.3	50
23	Effect of catalyst contact mode and gas atmosphere during catalytic pyrolysis of waste plastics. <i>Energy Conversion and Management</i> , 2017, 142, 441-451.	9.2	158
24	Understanding Low-Pressure Hydrolysis of Lignin Using Deuterated Sodium Formate. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 8939-8950.	6.7	25
25	Recovery and Utilization of Lignin Monomers as Part of the Biorefinery Approach. <i>Energies</i> , 2016, 9, 808.	3.1	69
26	Repolymerization of pyrolytic lignin for producing carbon fiber with improved properties. <i>Biomass and Bioenergy</i> , 2016, 95, 19-26.	5.7	72
27	Biofuels and Chemicals from Lignin Based on Pyrolysis. <i>Biofuels and Biorefineries</i> , 2016, , 263-287.	0.5	13
28	Lignin Valorization through Thermochemical Conversion: Comparison of Hardwood, Softwood and Herbaceous Lignin. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 6608-6617.	6.7	105
29	Role of Hydrogen Transfer during Catalytic Copyrolysis of Lignin and Tetralin over HZSM-5 and HY Zeolite Catalysts. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 4237-4250.	6.7	61
30	Catalytic co-pyrolysis of biomass and polyethylene in a tandem micropyrolyzer. <i>Fuel</i> , 2016, 166, 227-236.	6.4	230
31	Production of solubilized carbohydrate from cellulose using non-catalytic, supercritical depolymerization in polar aprotic solvents. <i>Green Chemistry</i> , 2016, 18, 1023-1031.	9.0	45
32	Quantitative Investigation of Free Radicals in Bio-Oil and their Potential Role in Condensed-Phase Polymerization. <i>ChemSusChem</i> , 2015, 8, 894-900.	6.8	56
33	Fast pyrolysis of biomass and waste plastic in a fluidized bed reactor. <i>Fuel</i> , 2015, 156, 40-46.	6.4	245
34	The use of calcium hydroxide pretreatment to overcome agglomeration of technical lignin during fast pyrolysis. <i>Green Chemistry</i> , 2015, 17, 4748-4759.	9.0	80
35	Pyrolysis mechanisms of methoxy substituted 1,4-O-4 lignin dimeric model compounds and detection of free radicals using electron paramagnetic resonance analysis. <i>Journal of Analytical and Applied Pyrolysis</i> , 2014, 110, 254-263.	5.5	61
36	The effect of low-concentration oxygen in sweep gas during pyrolysis of red oak using a fluidized bed reactor. <i>Fuel</i> , 2014, 124, 49-56.	6.4	60

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37	Formation of phenolic oligomers during fast pyrolysis of lignin. <i>Fuel</i> , 2014, 128, 170-179.	6.4	199
38	The Influence of Alkali and Alkaline Earth Metals and the Role of Acid Pretreatments in Production of Sugars from Switchgrass Based on Solvent Liquefaction. <i>Energy & Fuels</i> , 2014, 28, 1111-1120.	5.1	26
39	Hydrogen-Donor-Assisted Solvent Liquefaction of Lignin to Short-Chain Alkylphenols Using a Micro Reactor/Gas Chromatography System. <i>Energy & Fuels</i> , 2014, 28, 6429-6437.	5.1	67
40	Modeling the physiochemistry of levoglucosan during cellulose pyrolysis. <i>Journal of Analytical and Applied Pyrolysis</i> , 2014, 105, 363-368.	5.5	35
41	Partial oxidative pyrolysis of acid infused red oak using a fluidized bed reactor to produce sugar rich bio-oil. <i>Fuel</i> , 2014, 130, 135-141.	6.4	33
42	An experimental study of the competing processes of evaporation and polymerization of levoglucosan in cellulose pyrolysis. <i>Journal of Analytical and Applied Pyrolysis</i> , 2013, 99, 130-136.	5.5	56
43	Role of levoglucosan physiochemistry in cellulose pyrolysis. <i>Journal of Analytical and Applied Pyrolysis</i> , 2013, 99, 58-65.	5.5	73
44	Pyrolytic Sugars from Cellulosic Biomass. <i>ChemSusChem</i> , 2012, 5, 2228-2236.	6.8	155
45	Secondary reactions of levoglucosan and char in the fast pyrolysis of cellulose. <i>Environmental Progress and Sustainable Energy</i> , 2012, 31, 256-260.	2.3	79
46	One-pot production of oxygenated monomers and selectively oxidized lignin from biomass based on plasma electrolysis. <i>Green Chemistry</i> , 0, , .	9.0	4