Ming-Qiang Zhu

List of Publications by Year
in descending order

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440	23,662	7069 78	17546 121
papers	citations	h-index	g-index

446	446	446	21113
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Structural Differences between the Lignin-Carbohydrate Complexes (LCCs) from 2- and 24-Month-Old Bamboo (Neosinocalamus affinis). International Journal of Molecular Sciences, 2018, 19, 1.	1.8	1,144
2	The role of pretreatment in improving the enzymatic hydrolysis of lignocellulosic materials. Bioresource Technology, 2016, 199, 49-58.	4.8	708
3	Recent Advances in Characterization of Lignin Polymer by Solution-State Nuclear Magnetic Resonance (NMR) Methodology. Materials, 2013, 6, 359-391.	1.3	591
4	Facile fractionation of lignocelluloses by biomass-derived deep eutectic solvent (DES) pretreatment for cellulose enzymatic hydrolysis and lignin valorization. Green Chemistry, 2019, 21, 275-283.	4.6	445
5	Understanding the chemical transformations of lignin during ionic liquid pretreatment. Green Chemistry, 2014, 16, 181-190.	4.6	260
6	A Supercompressible, Elastic, and Bendable Carbon Aerogel with Ultrasensitive Detection Limits for Compression Strain, Pressure, and Bending Angle. Advanced Materials, 2018, 30, e1706705.	11.1	255
7	Gram-scale synthesis of single-crystalline graphene quantum dots derived from lignin biomass. Green Chemistry, 2018, 20, 1383-1390.	4.6	250
8	Engineering aspects of hydrothermal pretreatment: From batch to continuous operation, scale-up and pilot reactor under biorefinery concept. Bioresource Technology, 2020, 299, 122685.	4.8	236
9	Probing Energy and Electron Transfer Mechanisms in Fluorescence Quenching of Biomass Carbon Quantum Dots. ACS Applied Materials & Interfaces, 2016, 8, 17478-17488.	4.0	223
10	Compressible, Elastic, and Pressure-Sensitive Carbon Aerogels Derived from 2D Titanium Carbide Nanosheets and Bacterial Cellulose for Wearable Sensors. Chemistry of Materials, 2019, 31, 3301-3312.	3.2	220
11	Manufacture and application of lignin-based carbon fibers (LCFs) and lignin-based carbon nanofibers (LCNFs). Green Chemistry, 2017, 19, 1794-1827.	4.6	216
12	Catalytic Hydrogenolysis of Lignins into Phenolic Compounds over Carbon Nanotube Supported Molybdenum Oxide. ACS Catalysis, 2017, 7, 7535-7542.	5.5	198
13	The strong association of condensed phenolic moieties in isolated lignins with their inhibition of enzymatic hydrolysis. Green Chemistry, 2016, 18, 4276-4286.	4.6	195
14	Comparative study of lignins isolated by alkali and ultrasound-assisted alkali extractions from wheat straw. Ultrasonics Sonochemistry, 2002, 9, 85-93.	3.8	190
15	Understanding the chemical and structural transformations of lignin macromolecule during torrefaction. Applied Energy, 2014, 121, 1-9.	5.1	190
16	An ultralight, elastic, cost-effective, and highly recyclable superabsorbent from microfibrillated cellulose fibers for oil spillage cleanup. Journal of Materials Chemistry A, 2015, 3, 8772-8781.	5.2	186
17	Quantitative Structures and Thermal Properties of Birch Lignins after Ionic Liquid Pretreatment. Journal of Agricultural and Food Chemistry, 2013, 61, 635-645.	2.4	179
18	Lignin-Based Rigid Polyurethane Foam Reinforced with Pulp Fiber: Synthesis and Characterization. ACS Sustainable Chemistry and Engineering, 2014, 2, 1474-1480.	3.2	176

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19	A lignosulfonate-modified graphene hydrogel with ultrahigh adsorption capacity for Pb(<scp>ii</scp>) removal. Journal of Materials Chemistry A, 2016, 4, 11888-11896.	5.2	169
20	Structural elucidation of whole lignin from Eucalyptus based on preswelling and enzymatic hydrolysis. Green Chemistry, 2015, 17, 1589-1596.	4.6	157
21	Colloidal stability of negatively charged cellulose nanocrystalline in aqueous systems. Carbohydrate Polymers, 2012, 90, 644-649.	5.1	152
22	Application of biochar-based catalysts in biomass upgrading: a review. RSC Advances, 2017, 7, 48793-48805.	1.7	150
23	Lignin Source and Structural Characterization. ChemSusChem, 2020, 13, 4385-4393.	3.6	150
24	From lignin subunits to aggregates: insights into lignin solubilization. Green Chemistry, 2017, 19, 3272-3281.	4.6	149
25	Facile and High-Yield Synthesis of Carbon Quantum Dots from Biomass-Derived Carbons at Mild Condition. ACS Sustainable Chemistry and Engineering, 2019, 7, 7833-7843.	3.2	149
26	Green and Facile Preparation of Regular Lignin Nanoparticles with High Yield and Their Natural Broad-Spectrum Sunscreens. ACS Sustainable Chemistry and Engineering, 2019, 7, 2658-2666.	3.2	148
27	High Strength Hemicellulose-Based Nanocomposite Film for Food Packaging Applications. ACS Sustainable Chemistry and Engineering, 2016, 4, 1985-1993.	3.2	145
28	Properties of polyvinyl alcohol/xylan composite films with citric acid. Carbohydrate Polymers, 2014, 103, 94-99.	5.1	140
29	Research Progress in Ligninâ€Based Slow/Controlled Release Fertilizer. ChemSusChem, 2020, 13, 4356-4366.	3.6	140
30	Studies on the properties and formation mechanism of flexible nanocomposite hydrogels from cellulose nanocrystals and poly(acrylic acid). Journal of Materials Chemistry, 2012, 22, 22467.	6.7	138
31	Cold sodium hydroxide/urea based pretreatment of bamboo for bioethanol production: Characterization of the cellulose rich fraction. Industrial Crops and Products, 2010, 32, 551-559.	2.5	132
32	Structural and Morphological Transformations of Lignin Macromolecules during Bio-Based Deep Eutectic Solvent (DES) Pretreatment. ACS Sustainable Chemistry and Engineering, 2020, 8, 2130-2137.	3.2	131
33	Synthesis and characterization of mechanically flexible and tough cellulose nanocrystalsâ€“polyacrylamide nanocomposite hydrogels. Cellulose, 2013, 20, 227-237.	2.4	128
34	3D hierarchical porous N-doped carbon aerogel from renewable cellulose: an attractive carbon for high-performance supercapacitor electrodes and CO₂ adsorption. RSC Advances, 2016, 6, 15788-15795.	1.7	127
35	In-depth interpretation of the structural changes of lignin and formation of diketones during acidic deep eutectic solvent pretreatment. Green Chemistry, 2020, 22, 1851-1858.	4.6	123
36	Structural Characteristics of Lignin Macromolecules from Different Eucalyptus Species. ACS Sustainable Chemistry and Engineering, 2017, 5, 11618-11627.	3.2	122

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37	Role of lignin in a biorefinery: separation characterization and valorization. Journal of Chemical Technology and Biotechnology, 2013, 88, 346-352.	1.6	120
38	Comparison of physical properties of regenerated cellulose films fabricated with different cellulose feedstocks in ionic liquid. Carbohydrate Polymers, 2015, 121, 71-78.	5.1	120
39	Fabrication of Cellulose Film with Enhanced Mechanical Properties in Ionic Liquid 1-Allyl-3-methylimidaxolium Chloride (AmimCl). Materials, 2013, 6, 1270-1284.	1.3	114
40	Advanced and versatile lignin-derived biodegradable composite film materials toward a sustainable world. Green Chemistry, 2021, 23, 3790-3817.	4.6	114
41	A metal-free and flexible supercapacitor based on redox-active lignosulfonate functionalized graphene hydrogels. Journal of Materials Chemistry A, 2017, 5, 20643-20650.	5.2	113
42	Economically Competitive Biodegradable PBAT/Lignin Composites: Effect of Lignin Methylation and Compatibilizer. ACS Sustainable Chemistry and Engineering, 2020, 8, 5338-5346.	3.2	113
43	Structural and physico-chemical characterization of hemicelluloses from ultrasound-assisted extractions of partially delignified fast-growing poplar wood through organic solvent and alkaline solutions. Biotechnology Advances, 2010, 28, 583-593.	6.0	112
44	Recent advances in alcohol and organic acid fractionation of lignocellulosic biomass. Bioresource Technology, 2016, 200, 971-980.	4.8	112
45	Production of furfural from xylose, water-insoluble hemicelluloses and water-soluble fraction of corncob via a tin-loaded montmorillonite solid acid catalyst. Bioresource Technology, 2015, 176, 242-248.	4.8	108
46	Electrolyte Regulation towards Stable Lithiumâ€Metal Anodes in Lithiumâ€“Sulfur Batteries with Sulfurized Polyacrylonitrile Cathodes. Angewandte Chemie - International Edition, 2020, 59, 10732-10745.	7.2	108
47	Xylan-based temperature/pH sensitive hydrogels for drug controlled release. Carbohydrate Polymers, 2016, 151, 189-197.	5.1	107
48	Direct transformation of xylan-type hemicelluloses to furfural via SnCl4 catalysts in aqueous and biphasic systems. Bioresource Technology, 2015, 183, 188-194.	4.8	105
49	Characterization and phenolation of biorefinery technical lignins for ligninâ€“phenolâ€“formaldehyde resin adhesive synthesis. RSC Advances, 2014, 4, 57996-58004.	1.7	103
50	Studies on the Starch and Hemicelluloses Fractionated by Graded Ethanol Precipitation from Bamboo Phyllostachys bambusoides f. shouzhu Yi. Journal of Agricultural and Food Chemistry, 2011, 59, 2680-2688.	2.4	102
51	Catalytic hydrothermal pretreatment of corncob into xylose and furfural via solid acid catalyst. Bioresource Technology, 2014, 158, 313-320.	4.8	101
52	Unveiling the Structural Heterogeneity of Bamboo Lignin by In Situ HSQC NMR Technique. Bioenergy Research, 2012, 5, 886-903.	2.2	100
53	Quantitative structural characterization andÂthermal properties of birch lignins after autoâ€catalyzed organosolv pretreatment andÂenzymatic hydrolysis. Journal of Chemical Technology and Biotechnology, 2013, 88, 1663-1671.	1.6	100
54	Biomass polymer-assisted fabrication of aerogels from MXenes with ultrahigh compression elasticity and pressure sensitivity. Journal of Materials Chemistry A, 2019, 7, 10273-10281.	5.2	100

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55	Naturally p-Hydroxybenzoylated Lignins in Palms. Bioenergy Research, 2015, 8, 934-952.	2.2	99
56	Characterization and antioxidant activity of Î²-carotene loaded chitosan-graft-poly(lactide) nanomicelles. Carbohydrate Polymers, 2015, 117, 169-176.	5.1	96
57	Fractionation of bamboo culms by autohydrolysis, organosolv delignification and extended delignification: Understanding the fundamental chemistry of the lignin during the integrated process. Bioresource Technology, 2013, 150, 278-286.	4.8	95
58	Self-Biotemplate Preparation of Hierarchical Porous Carbon with Rational Mesopore Ratio and High Oxygen Content for an Ultrahigh Energy-Density Supercapacitor. ACS Sustainable Chemistry and Engineering, 2018, 6, 7138-7150.	3.2	95
59	Plasticized hemicelluloses/chitosan-based edible films reinforced by cellulose nanofiber with enhanced mechanical properties. Carbohydrate Polymers, 2019, 224, 115164.	5.1	93
60	Syntheses of Lignin-Derived Thioacidolysis Monomers and Their Uses as Quantitation Standards. Journal of Agricultural and Food Chemistry, 2012, 60, 922-928.	2.4	92
61	Autohydrolysis of bamboo (Dendrocalamus giganteus Munro) culm for the production of xylo-oligosaccharides. Bioresource Technology, 2013, 138, 63-70.	4.8	92
62	Enhanced enzymatic hydrolysis of bamboo (Dendrocalamus giganteus Munro) culm by hydrothermal pretreatment. Bioresource Technology, 2014, 159, 41-47.	4.8	92
63	Sustainable carbon quantum dots from forestry and agricultural biomass with amplified photoluminescence by simple NH₄OH passivation. Journal of Materials Chemistry C, 2014, 2, 9760-9766.	2.7	92
64	A feasible process for furfural production from the pre-hydrolysis liquor of corncob via biochar catalysts in a new biphasic system. Bioresource Technology, 2016, 216, 754-760.	4.8	92
65	Highly Thermostable, Flexible, and Conductive Films Prepared from Cellulose, Graphite, and Polypyrrole Nanoparticles. ACS Applied Materials & Interfaces, 2015, 7, 15641-15648.	4.0	90
66	Cellulose acetate fibers prepared from different raw materials with rapid synthesis method. Carbohydrate Polymers, 2016, 137, 685-692.	5.1	88
67	Chemosynthesis and structural characterization of a novel lignin-based bio-sorbent and its strong adsorption for Pb (II). Industrial Crops and Products, 2017, 108, 72-80.	2.5	88
68	â€œGreenâ€•films from renewable resources: Properties of epoxidized soybean oil plasticized ethyl cellulose films. Carbohydrate Polymers, 2014, 103, 198-206.	5.1	87
69	Microwave-assisted acid hydrolysis to produce xylooligosaccharides from sugarcane bagasse hemicelluloses. Food Chemistry, 2014, 156, 7-13.	4.2	87
70	Highly Conductive and Mechanically Robust Cellulose Nanocomposite Hydrogels with Antifreezing and Antidehydration Performances for Flexible Humidity Sensors. ACS Applied Materials & Interfaces, 2022, 14, 10886-10897.	4.0	87
71	Effect of hydrothermal pretreatment on the structural changes of alkaline ethanol lignin from wheat straw. Scientific Reports, 2016, 6, 39354.	1.6	86
72	Comparative study of the pyrolysis of lignocellulose and its major components: Characterization and overall distribution of their biochars and volatiles. Bioresource Technology, 2014, 155, 21-27.	4.8	85

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73	Comparison of activated carbons prepared by one-step and two-step chemical activation process based on cotton stalk for supercapacitors application. Energy, 2021, 215, 119144.	4.5	85
74	Choline chloride/urea as an effective plasticizer for production of cellulose films. Carbohydrate Polymers, 2015, 117, 133-139.	5.1	84
75	One-pot synthesis of levulinic acid from cellulose in ionic liquids. Bioresource Technology, 2015, 192, 812-816.	4.8	83
76	Structural elucidation of inhomogeneous lignins from bamboo. International Journal of Biological Macromolecules, 2015, 77, 250-259.	3.6	83
77	Hydrothermal synthesis and applications of advanced carbonaceous materials from biomass: a review. Advanced Composites and Hybrid Materials, 2020, 3, 267-284.	9.9	83
78	Severity factor kinetic model as a strategic parameter of hydrothermal processing (steam explosion) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 2021, 342, 125961.	4.8	83
79	Microwave-assisted organic acid extraction of lignin from bamboo: Structure and antioxidant activity investigation. Food Chemistry, 2012, 134, 1392-1398.	4.2	82
80	Electrolyte Regulation towards Stable Lithiumâ€Metal Anodes in Lithiumâ€“Sulfur Batteries with Sulfurized Polyacrylonitrile Cathodes. Angewandte Chemie, 2020, 132, 10821-10834.	1.6	80
81	High Production Yield and More Thermally Stable Lignin-Containing Cellulose Nanocrystals Isolated Using a Ternary Acidic Deep Eutectic Solvent. ACS Sustainable Chemistry and Engineering, 2020, 8, 7182-7191.	3.2	79
82	Eucommia ulmoides Oliver: A Potential Feedstock for Bioactive Products. Journal of Agricultural and Food Chemistry, 2018, 66, 5433-5438.	2.4	78
83	Sequential utilization of bamboo biomass through reductive catalytic fractionation of lignin. Bioresource Technology, 2019, 285, 121335.	4.8	74
84	Producing Lignin-Based Polyols through Microwave-Assisted Liquefaction for Rigid Polyurethane Foam Production. Materials, 2015, 8, 586-599.	1.3	73
85	Selective Fragmentation of Biorefinery Corncob Lignin into pâ€Hydroxycinnamic Esters with a Supported Zinc Molybdate Catalyst. ChemSusChem, 2018, 11, 2114-2123.	3.6	73
86	Ligninâ€“phenolâ€“formaldehyde resin adhesives prepared with biorefinery technical lignins. Journal of Applied Polymer Science, 2015, 132, .	1.3	72
87	Recent advances in lignocellulose prior-fractionation for biomaterials, biochemicals, and bioenergy. Carbohydrate Polymers, 2021, 261, 117884.	5.1	72
88	Graphene Oxide Encapsulating Liquid Metal to Toughen Hydrogel. Advanced Functional Materials, 2021, 31, 2106761.	7.8	72
89	Insights into bamboo delignification with acidic deep eutectic solvents pretreatment for enhanced lignin fractionation and valorization. Industrial Crops and Products, 2021, 170, 113692.	2.5	72
90	Chemical modification of ultrasound-pretreated sugarcane bagasse with maleic anhydride. Industrial Crops and Products, 2007, 26, 212-219.	2.5	71

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91	Evaluation of the two-step treatment with ionic liquids and alkali for enhancing enzymatic hydrolysis of Eucalyptus: chemical and anatomical changes. Biotechnology for Biofuels, 2016, 9, 166.	6.2	71
92	Assessment of integrated process based on hydrothermal and alkaline treatments for enzymatic saccharification of sweet sorghum stems. Bioresource Technology, 2015, 175, 473-479.	4.8	70
93	Catechyl Lignin Extracted from Castor Seed Coats Using Deep Eutectic Solvents: Characterization and Depolymerization. ACS Sustainable Chemistry and Engineering, 2020, 8, 7031-7038.	3.2	70
94	Isolation and Structural Characterization of Lignin from Cotton Stalk Treated in an Ammonia Hydrothermal System. International Journal of Molecular Sciences, 2012, 13, 15209-15226.	1.8	69
95	Functional relationship of furfural yields and the hemicellulose-derived sugars in the hydrolysates from corncob by microwave-assisted hydrothermal pretreatment. Biotechnology for Biofuels, 2015, 8, 127.	6.2	69
96	Hydrothermal conversion of xylose, glucose, and cellulose under the catalysis of transition metal sulfates. Carbohydrate Polymers, 2015, 118, 44-51.	5.1	69
97	Advanced Compressible and Elastic 3D Monoliths beyond Hydrogels. Advanced Functional Materials, 2019, 29, 1904472.	7.8	69
98	Microwave-enhanced extraction of lignin from birch in formic acid: Structural characterization and antioxidant activity study. Process Biochemistry, 2012, 47, 1799-1806.	1.8	68
99	Synthetic and viscoelastic behaviors of silicananoparticle reinforced poly(acrylamide) coreâ€“shell nanocomposite hydrogels. Soft Matter, 2013, 9, 1220-1230.	1.2	68
100	Green Process for Extraction of Lignin by the Microwave-Assisted Ionic Liquid Approach: Toward Biomass Biorefinery and Lignin Characterization. ACS Sustainable Chemistry and Engineering, 2019, 7, 13062-13072.	3.2	68
101	Microwave-Induced Synthesis of Carboxymethyl Hemicelluloses and Their Rheological Properties. Journal of Agricultural and Food Chemistry, 2011, 59, 570-576.	2.4	66
102	Wet Torrefaction of Bamboo in Hydrochloric Acid Solution by Microwave Heating. ACS Sustainable Chemistry and Engineering, 2015, 3, 2022-2029.	3.2	66
103	Enhanced adsorption activity for phosphate removal by functional lignin-derived carbon-based adsorbent: Optimization, performance and evaluation. Science of the Total Environment, 2021, 761, 143217.	3.9	66
104	Hemicelluloses and Their Derivatives. ACS Symposium Series, 2003, , 2-22.	0.5	65
105	Effect of structural changes of lignin during the autohydrolysis and organosolv pretreatment on Eucommia ulmoides Oliver for an effective enzymatic hydrolysis. Bioresource Technology, 2015, 185, 378-385.	4.8	65
106	Chemodivergent hydrogenolysis of eucalyptus lignin with Ni@ZIF-8 catalyst. Green Chemistry, 2019, 21, 1498-1504.	4.6	65
107	Structural changes and electrochemical properties of lacquer wood activated carbon prepared by phosphoric acid-chemical activation for supercapacitor applications. Renewable Energy, 2021, 177, 82-94.	4.3	65
108	Superelastic Carbon Aerogel with Ultrahigh and Wide-Range Linear Sensitivity. ACS Applied Materials & Interfaces, 2018, 10, 40641-40650.	4.0	64

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109	Structural and physicochemical characterization of hemicelluloses isolated by alkaline peroxide from barley straw. Polymer International, 2002, 51, 117-124.	1.6	63
110	Self-Assembled Conjugated Polymer/Chitosan-graft-Oleic Acid Micelles for Fast Visible Detection of Aliphatic Biogenic Amines by â€œTurn-Onâ€•FRET. ACS Applied Materials & Interfaces, 2017, 9, 22875-22884.	4.0	63
111	Heat Treatment of Industrial Alkaline Lignin and its Potential Application as an Adhesive for Green Woodâ€“Lignin Composites. ACS Sustainable Chemistry and Engineering, 2017, 5, 7269-7277.	3.2	63
112	Transparent, Selfâ€Adhesive, Conductive Organohydrogels with Fast Gelation from Ligninâ€Based Selfâ€Catalytic System for Extreme Environmentâ€Resistant Triboelectric Nanogenerators. Advanced Functional Materials, 2022, 32, .	7.8	63
113	Enhanced enzymatic digestibility of bamboo by a combined system of multiple steam explosion and alkaline treatments. Applied Energy, 2014, 136, 519-526.	5.1	61
114	Effects of aluminum chloride-catalyzed hydrothermal pretreatment on the structural characteristics of lignin and enzymatic hydrolysis. Bioresource Technology, 2016, 206, 57-64.	4.8	61
115	Effects of pretreatments on crystalline properties and morphology of cellulose nanocrystals. Cellulose, 2013, 20, 2427-2437.	2.4	60
116	Self-assembly and Î²-carotene loading capacity of hydroxyethyl cellulose-graft-linoleic acid nanomicelles. Carbohydrate Polymers, 2016, 145, 56-63.	5.1	60
117	Production of xylooligosaccharides by microwave-induced, organic acid-catalyzed hydrolysis of different xylan-type hemicelluloses: Optimization by response surface methodology. Carbohydrate Polymers, 2017, 157, 214-225.	5.1	60
118	Hemicellulose from Plant Biomass in Medical and Pharmaceutical Application: A Critical Review. Current Medicinal Chemistry, 2019, 26, 2430-2455.	1.2	60
119	Tunable, UV-shielding and biodegradable composites based on well-characterized lignins and poly(butylene adipate-co-terephthalate). Green Chemistry, 2020, 22, 8623-8632.	4.6	59
120	Unlocking Structureâ€“Reactivity Relationships for Catalytic Hydrogenolysis of Lignin into Phenolic Monomers. ChemSusChem, 2020, 13, 4548-4556.	3.6	58
121	Acidic deep eutectic solvent assisted isolation of lignin containing nanocellulose from thermomechanical pulp. Carbohydrate Polymers, 2020, 247, 116727.	5.1	58
122	Comprehensive evaluation of the liquid fraction during the hydrothermal treatment of rapeseed straw. Biotechnology for Biofuels, 2016, 9, 142.	6.2	57
123	Fragmentation of Woody Lignocellulose into Primary Monolignols and Their Derivatives. ACS Sustainable Chemistry and Engineering, 2019, 7, 4666-4674.	3.2	56
124	Structural Variations of Lignin Macromolecules from Early Growth Stages of Poplar Cell Walls. ACS Sustainable Chemistry and Engineering, 2020, 8, 1813-1822.	3.2	56
125	Recent advances and challenges on removal and recycling of phosphate from wastewater using biomass-derived adsorbents. Chemosphere, 2021, 278, 130377.	4.2	56
126	Alkaline hydrothermal liquefaction of swine carcasses to bio-oil. Waste Management, 2015, 43, 230-238.	3.7	55

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127	Efficient separation and physico-chemical characterization of lignin from eucalyptus using ionic liquidâ€“organic solvent and alkaline ethanol solvent. Industrial Crops and Products, 2013, 47, 277-285.	2.5	54
128	Structural variations of lignin macromolecule from different growth years of Triploid of Populus tomentosa Carr.. International Journal of Biological Macromolecules, 2017, 101, 747-757.	3.6	54
129	Facile fabrication of chitosan active film with xylan via direct immersion. Cellulose, 2014, 21, 1873-1883.	2.4	53
130	Revealing the structure and distribution changes of Eucalyptus lignin during the hydrothermal and alkaline pretreatments. Scientific Reports, 2017, 7, 593.	1.6	53
131	Fractionation of rapeseed straw by hydrothermal/dilute acid pretreatment combined with alkali post-treatment for improving its enzymatic hydrolysis. Bioresource Technology, 2017, 225, 127-133.	4.8	53
132	Structural Variation of Lignin and Ligninâ€“Carbohydrate Complex in Eucalyptus grandis Ã— E. urophylla during Its Growth Process. ACS Sustainable Chemistry and Engineering, 2017, 5, 1113-1122.	3.2	53
133	Understanding the structural changes and depolymerization of Eucalyptus lignin under mild conditions in aqueous AlCl₃. RSC Advances, 2016, 6, 45315-45325.	1.7	52
134	Functional B@mCN-assisted photocatalytic oxidation of biomass-derived pentoses and hexoses to lactic acid. Green Chemistry, 2020, 22, 6384-6392.	4.6	52
135	Facile synthesis of cellulose-based carbon with tunable N content for potential supercapacitor application. Carbohydrate Polymers, 2017, 170, 107-116.	5.1	52
136	Preparation and characterization of double crosslinked hydrogel films from carboxymethylchitosan and carboxymethylcellulose. Carbohydrate Polymers, 2014, 110, 113-120.	5.1	51
137	Multifunctional cellulosic paper based on quaternized chitosan and gold nanoparticleâ€“reduced graphene oxide via electrostatic self-assembly. Journal of Materials Chemistry A, 2015, 3, 7422-7428.	5.2	51
138	Gasification of bio-oil: Effects of equivalence ratio and gasifying agents on product distribution and gasification efficiency. Bioresource Technology, 2016, 211, 164-172.	4.8	51
139	New Understandings of the Relationship and Initial Formation Mechanism for Pseudo-lignin, Humins, and Acid-Induced Hydrothermal Carbon. Journal of Agricultural and Food Chemistry, 2018, 66, 11981-11989.	2.4	51
140	Structural elucidation of lignin macromolecule from abaca during alkaline hydrogen peroxide delignification. International Journal of Biological Macromolecules, 2020, 144, 596-602.	3.6	51
141	Removed heavy metal ions from wastewater reuse for chemiluminescence: Successive application of lignin-based composite hydrogels. Journal of Hazardous Materials, 2022, 421, 126722.	6.5	51
142	Effect of structural characteristics of corncob hemicelluloses fractionated by graded ethanol precipitation on furfural production. Carbohydrate Polymers, 2016, 136, 203-209.	5.1	50
143	Activated carbons prepared by hydrothermal pretreatment and chemical activation of Eucommia ulmoides wood for supercapacitors application. Industrial Crops and Products, 2018, 125, 41-49.	2.5	50
144	Effect of lignin content on enzymatic hydrolysis of furfural residues. BioResources, 2011, 6, 317-328.	0.5	50

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145	Effects of Various Surfactants on Alkali Lignin Electrospinning Ability and Spun Fibers. Industrial & Engineering Chemistry Research, 2017, 56, 9551-9559.	1.8	49
146	Synthesis and characterization of hydrophobic long-chain fatty acylated cellulose and its self-assembled nanoparticles. Polymer Bulletin, 2012, 69, 389-403.	1.7	48
147	Microwave-assisted modification on montmorillonite with ester-containing Gemini surfactant and its adsorption behavior for triclosan. Journal of Colloid and Interface Science, 2014, 418, 311-316.	5.0	48
148	Copper Sulfide Nanoparticle/Cellulose Composite Paper: Room-Temperature Green Fabrication for NIR Laser-Inducible Ablation of Pathogenic Microorganisms. ACS Sustainable Chemistry and Engineering, 2017, 5, 2648-2655.	3.2	48
149	All-Biomass Fluorescent Hydrogels Based on Biomass Carbon Dots and Alginate/Nanocellulose for Biosensing. ACS Applied Bio Materials, 2018, 1, 1398-1407.	2.3	48
150	Isolation and physico-chemical characterization of lignins from ultrasound irradiated fast-growing poplar wood. BioResources, 2011, 6, 414-433.	0.5	48
151	Regenerated cellulose film with enhanced tensile strength prepared with ionic liquid 1-ethyl-3-methylimidazolium acetate (EMIMAc). Cellulose, 2013, 20, 1391-1399.	2.4	47
152	Direct grafting modification of pulp in ionic liquids and self-assembly behavior of the graft copolymers. Cellulose, 2013, 20, 873-884.	2.4	47
153	Fabrication and Characterization of Regenerated Cellulose Films Using Different Ionic Liquids. Journal of Spectroscopy, 2014, 2014, 1-8.	0.6	47
154	A renewable biomass-based lignin film as an effective protective layer to stabilize zinc metal anodes for high-performance zincâ€“iodine batteries. Journal of Materials Chemistry A, 2022, 10, 4845-4857.	5.2	47
155	Oleoylation of sugarcane bagasse hemicelluloses using N -bromosuccinimide as a catalyst. Journal of the Science of Food and Agriculture, 2004, 84, 800-810.	1.7	46
156	Flexible nanocomposites with ultrahigh specific areal capacitance and tunable properties based on a cellulose derived nanofiber-carbon sheet framework coated with polyaniline. Journal of Materials Chemistry A, 2016, 4, 13352-13362.	5.2	46
157	<scp>d</scp>-Xylonic acid: a solvent and an effective biocatalyst for a three-component reaction. Green Chemistry, 2016, 18, 1738-1750.	4.6	46
158	Valorization of bamboo by Î³-valerolactone/acid/water to produce digestible cellulose, degraded sugars and lignin. Bioresource Technology, 2017, 230, 90-96.	4.8	46
159	Synthesizing green carbon dots with exceptionally high yield from biomass hydrothermal carbon. Cellulose, 2020, 27, 415-428.	2.4	46
160	Effect of pretreatment severity on the enzymatic hydrolysis of bamboo in hydrothermal deconstruction. Cellulose, 2014, 21, 4105-4117.	2.4	45
161	Hydrogenolysis of biorefinery corncob lignin into aromatic phenols over activated carbon-supported nickel. Sustainable Energy and Fuels, 2019, 3, 401-408.	2.5	45
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