

Run-Cang Sun

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212
papers

11,920
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216
ext. papers

14,633
ext. citations

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avg, IF

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L-index

#	Paper	IF	Citations
212	Structural Differences between the Lignin-Carbohydrate Complexes (LCCs) from 2- and 24-Month-Old Bamboo (<i>Neosinocalamus affinis</i>). <i>International Journal of Molecular Sciences</i> , 2017 , 19,	6.3	816
211	Chemical, structural, and thermal characterizations of alkali-soluble lignins and hemicelluloses, and cellulose from maize stems, rye straw, and rice straw. <i>Polymer Degradation and Stability</i> , 2001 , 74, 307-319	4.7	558
210	Recent Advances in Characterization of Lignin Polymer by Solution-State Nuclear Magnetic Resonance (NMR) Methodology. <i>Materials</i> , 2013 , 6, 359-391	3.5	446
209	Characterization of lignin structures and lignin-carbohydrate complex (LCC) linkages by quantitative ¹³ C and 2D HSQC NMR spectroscopy. <i>Journal of Agricultural and Food Chemistry</i> , 2011 , 59, 10604-14	5.7	359
208	Fractional purification and bioconversion of hemicelluloses. <i>Biotechnology Advances</i> , 2012 , 30, 879-903	17.8	264
207	Comparative study of hemicelluloses obtained by graded ethanol precipitation from sugarcane bagasse. <i>Journal of Agricultural and Food Chemistry</i> , 2009 , 57, 6305-17	5.7	256
206	Facile fractionation of lignocelluloses by biomass-derived deep eutectic solvent (DES) pretreatment for cellulose enzymatic hydrolysis and lignin valorization. <i>Green Chemistry</i> , 2019 , 21, 275-283	1.0	244
205	Understanding the chemical transformations of lignin during ionic liquid pretreatment. <i>Green Chemistry</i> , 2014 , 16, 181-190	10	191
204	A Supercompressible, Elastic, and Bendable Carbon Aerogel with Ultrasensitive Detection Limits for Compression Strain, Pressure, and Bending Angle. <i>Advanced Materials</i> , 2018 , 30, e1706705	24	174
203	Nanocomposite films based on xylan-rich hemicelluloses and cellulose nanofibers with enhanced mechanical properties. <i>Biomacromolecules</i> , 2011 , 12, 3321-9	6.9	163
202	Probing Energy and Electron Transfer Mechanisms in Fluorescence Quenching of Biomass Carbon Quantum Dots. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 17478-88	9.5	156
201	Unmasking the structural features and property of lignin from bamboo. <i>Industrial Crops and Products</i> , 2013 , 42, 332-343	5.9	155
200	Gram-scale synthesis of single-crystalline graphene quantum dots derived from lignin biomass. <i>Green Chemistry</i> , 2018 , 20, 1383-1390	10	150
199	Understanding the chemical and structural transformations of lignin macromolecule during torrefaction. <i>Applied Energy</i> , 2014 , 121, 1-9	10.7	147
198	Manufacture and application of lignin-based carbon fibers (LCFs) and lignin-based carbon nanofibers (LCNFs). <i>Green Chemistry</i> , 2017 , 19, 1794-1827	10	143
197	Catalytic Hydrogenolysis of Lignins into Phenolic Compounds over Carbon Nanotube Supported Molybdenum Oxide. <i>ACS Catalysis</i> , 2017 , 7, 7535-7542	13.1	139
196	Quantitative structures and thermal properties of birch lignins after ionic liquid pretreatment. <i>Journal of Agricultural and Food Chemistry</i> , 2013 , 61, 635-45	5.7	138

195	Compressible, Elastic, and Pressure-Sensitive Carbon Aerogels Derived from 2D Titanium Carbide Nanosheets and Bacterial Cellulose for Wearable Sensors. <i>Chemistry of Materials</i> , 2019 , 31, 3301-3312	9.6	132
194	Ester and ether linkages between hydroxycinnamic acids and lignins from wheat, rice, rye, and barley straws, maize stems, and fast-growing poplar wood. <i>Industrial Crops and Products</i> , 2002 , 15, 179-188	5.9	132
193	Ultrasound-assisted dissolution of cellulose in ionic liquid. <i>Carbohydrate Polymers</i> , 2011 , 86, 672-677	10.3	129
192	A lignosulfonate-modified graphene hydrogel with ultrahigh adsorption capacity for Pb(II) removal. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 11888-11896	13	123
191	Quantitative structural characterization of the lignins from the stem and pith of bamboo (<i>Phyllostachys pubescens</i>). <i>Holzforschung</i> , 2013 , 67, 613-627	2	119
190	Quantitative determination of hydroxycinnamic acids in wheat, rice, rye, and barley straws, maize stems, oil palm frond fiber, and fast-growing poplar wood. <i>Journal of Agricultural and Food Chemistry</i> , 2001 , 49, 5122-9	5.7	112
189	Formic acid based organosolv pulping of bamboo (<i>Phyllostachys acuta</i>): Comparative characterization of the dissolved lignins with milled wood lignin. <i>Chemical Engineering Journal</i> , 2012 , 179, 80-89	14.7	111
188	Structural features and antioxidant activity of xylooligosaccharides enzymatically produced from sugarcane bagasse. <i>Bioresource Technology</i> , 2013 , 127, 236-41	11	107
187	Role of lignin in a biorefinery: separation characterization and valorization. <i>Journal of Chemical Technology and Biotechnology</i> , 2013 , 88, 346-352	3.5	106
186	Structural elucidation of whole lignin from Eucalyptus based on preswelling and enzymatic hydrolysis. <i>Green Chemistry</i> , 2015 , 17, 1589-1596	10	104
185	Structural characterization of lignin from triploid of <i>Populus tomentosa</i> Carr. <i>Journal of Agricultural and Food Chemistry</i> , 2011 , 59, 6605-15	5.7	97
184	High-value utilization of lignin to synthesize Ag nanoparticles with detection capacity for Hg ²⁺ . <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 16147-55	9.5	92
183	Fabrication of Cellulose Film with Enhanced Mechanical Properties in Ionic Liquid 1-Allyl-3-methylimidazolium Chloride (AmimCl). <i>Materials</i> , 2013 , 6, 1270-1284	3.5	91
182	From lignin subunits to aggregates: insights into lignin solubilization. <i>Green Chemistry</i> , 2017 , 19, 3272-3281	8.1	89
181	Structural and physico-chemical characterization of hemicelluloses from ultrasound-assisted extractions of partially delignified fast-growing poplar wood through organic solvent and alkaline solutions. <i>Biotechnology Advances</i> , 2010 , 28, 583-93	17.8	89
180	Application of biochar-based catalysts in biomass upgrading: a review. <i>RSC Advances</i> , 2017 , 7, 48793-48805	9.5	88
179	Recent advances in alcohol and organic acid fractionation of lignocellulosic biomass. <i>Bioresource Technology</i> , 2016 , 200, 971-80	11	88
178	Effect of ionic liquid/organic solvent pretreatment on the enzymatic hydrolysis of corncob for bioethanol production. Part 1: Structural characterization of the lignins. <i>Industrial Crops and Products</i> , 2013 , 43, 570-577	5.9	87

177	Characterization and phenolation of biorefinery technical lignins for lignin-phenol-formaldehyde resin adhesive synthesis. <i>RSC Advances</i> , 2014 , 4, 57996-58004	3.7	85
176	Direct transformation of xylan-type hemicelluloses to furfural via SnCl ₄ catalysts in aqueous and biphasic systems. <i>Bioresource Technology</i> , 2015 , 183, 188-94	11	84
175	Characterization and antioxidant activity of β -carotene loaded chitosan-graft-poly(lactide) nanomicelles. <i>Carbohydrate Polymers</i> , 2015 , 117, 169-176	10.3	82
174	Autohydrolysis of bamboo (<i>Dendrocalamus giganteus</i> Munro) culm for the production of xylo-oligosaccharides. <i>Bioresource Technology</i> , 2013 , 138, 63-70	11	82
173	Structural elucidation of lignin polymers of Eucalyptus chips during organosolv pretreatment and extended delignification. <i>Journal of Agricultural and Food Chemistry</i> , 2013 , 61, 11067-75	5.7	82
172	Compressive, ultralight and fire-resistant lignin-modified graphene aerogels as recyclable absorbents for oil and organic solvents. <i>Chemical Engineering Journal</i> , 2018 , 350, 173-180	14.7	82
171	Facile and High-Yield Synthesis of Carbon Quantum Dots from Biomass-Derived Carbons at Mild Condition. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 7833-7843	8.3	81
170	A metal-free and flexible supercapacitor based on redox-active lignosulfonate functionalized graphene hydrogels. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 20643-20650	13	80
169	Green and Facile Preparation of Regular Lignin Nanoparticles with High Yield and Their Natural Broad-Spectrum Sunscreens. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 2658-2666	8.3	78
168	Fractionation of bamboo culms by autohydrolysis, organosolv delignification and extended delignification: understanding the fundamental chemistry of the lignin during the integrated process. <i>Bioresource Technology</i> , 2013 , 150, 278-86	11	75
167	Preparation of cellulose-graft-poly(ϵ -caprolactone) nanomicelles by homogeneous ROP in ionic liquid. <i>Carbohydrate Polymers</i> , 2013 , 92, 77-83	10.3	74
166	Self-assembly and paclitaxel loading capacity of cellulose-graft-poly(lactide) nanomicelles. <i>Journal of Agricultural and Food Chemistry</i> , 2012 , 60, 3900-8	5.7	73
165	Effects of precipitation pH on the physico-chemical properties of the lignins isolated from the black liquor of oil palm empty fruit bunch fibre pulping. <i>Polymer Degradation and Stability</i> , 1999 , 63, 195-200	4.7	73
164	Highly thermostable, flexible, and conductive films prepared from cellulose, graphite, and polypyrrole nanoparticles. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 15641-8	9.5	72
163	Sustainable carbon quantum dots from forestry and agricultural biomass with amplified photoluminescence by simple NH ₄ OH passivation. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 9760-9766	7.1	72
162	Microwave-assisted acid hydrolysis to produce xylooligosaccharides from sugarcane bagasse hemicelluloses. <i>Food Chemistry</i> , 2014 , 156, 7-13	8.5	70
161	Effect of hydrothermal pretreatment on the structural changes of alkaline ethanol lignin from wheat straw. <i>Scientific Reports</i> , 2016 , 6, 39354	4.9	69
160	A feasible process for furfural production from the pre-hydrolysis liquor of corncob via biochar catalysts in a new biphasic system. <i>Bioresource Technology</i> , 2016 , 216, 754-60	11	68

159	Structural Characteristics of Lignin Macromolecules from Different Eucalyptus Species. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 11618-11627	8.3	67
158	Sequential solvent fractionation of heterogeneous bamboo organosolv lignin for value-added application. <i>Separation and Purification Technology</i> , 2012 , 101, 18-25	8.3	64
157	Structural variation of bamboo lignin before and after ethanol organosolv pretreatment. <i>International Journal of Molecular Sciences</i> , 2013 , 14, 21394-413	6.3	63
156	Research Progress in Lignin-Based Slow/Controlled Release Fertilizer. <i>ChemSusChem</i> , 2020 , 13, 4356-4366	6.3	63
155	Availability of four energy crops assessing by the enzymatic hydrolysis and structural features of lignin before and after hydrothermal treatment. <i>Energy Conversion and Management</i> , 2018 , 155, 58-67	10.6	61
154	Successive alkali extraction and structural characterization of hemicelluloses from sweet sorghum stem. <i>Carbohydrate Polymers</i> , 2013 , 92, 2224-31	10.3	60
153	Biomass polymer-assisted fabrication of aerogels from MXenes with ultrahigh compression elasticity and pressure sensitivity. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 10273-10281	13	58
152	Microwave-enhanced extraction of lignin from birch in formic acid: Structural characterization and antioxidant activity study. <i>Process Biochemistry</i> , 2012 , 47, 1799-1806	4.8	58
151	Characterization of lignins from wheat straw by alkaline peroxide treatment. <i>Polymer Degradation and Stability</i> , 2000 , 67, 101-109	4.7	57
150	A highly conductive, pliable and foldable Cu/cellulose paper electrode enabled by controlled deposition of copper nanoparticles. <i>Nanoscale</i> , 2019 , 11, 725-732	7.7	56
149	Chemosynthesis and structural characterization of a novel lignin-based bio-sorbent and its strong adsorption for Pb (II). <i>Industrial Crops and Products</i> , 2017 , 108, 72-80	5.9	55
148	Structural elucidation of inhomogeneous lignins from bamboo. <i>International Journal of Biological Macromolecules</i> , 2015 , 77, 250-9	7.9	53
147	Functional relationship of furfural yields and the hemicellulose-derived sugars in the hydrolysates from corncob by microwave-assisted hydrothermal pretreatment. <i>Biotechnology for Biofuels</i> , 2015 , 8, 127	7.8	53
146	Hydrothermal treatment and enzymatic hydrolysis of <i>Tamarix ramosissima</i> : evaluation of the process as a conversion method in a biorefinery concept. <i>Bioresource Technology</i> , 2013 , 135, 73-81	11	50
145	Selective Fragmentation of Biorefinery Corncob Lignin into p-Hydroxycinnamic Esters with a Supported Zinc Molybdate Catalyst. <i>ChemSusChem</i> , 2018 , 11, 2114-2123	8.3	49
144	Enhanced enzymatic digestibility of bamboo by a combined system of multiple steam explosion and alkaline treatments. <i>Applied Energy</i> , 2014 , 136, 519-526	10.7	49
143	In-depth interpretation of the structural changes of lignin and formation of diketones during acidic deep eutectic solvent pretreatment. <i>Green Chemistry</i> , 2020 , 22, 1851-1858	10	48
142	Lignin-phenol-formaldehyde resin adhesives prepared with biorefinery technical lignins. <i>Journal of Applied Polymer Science</i> , 2015 , 132, n/a-n/a	2.9	48

141	Isolation of cellulolytic enzyme lignin from wood preswollen/dissolved in dimethyl sulfoxide/n-methylimidazole. <i>Journal of Agricultural and Food Chemistry</i> , 2010 , 58, 3446-50	5.7	48
140	Economically Competitive Biodegradable PBAT/Lignin Composites: Effect of Lignin Methylation and Compatibilizer. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 5338-5346	8.3	47
139	Structural Characterization of Alkali-Extractable Lignin Fractions from Bamboo. <i>Journal of Biobased Materials and Bioenergy</i> , 2010 , 4, 408-425	1.4	47
138	Fractionation of alkali-solubilized hemicelluloses from delignified <i>Populus gansuensis</i> : structure and properties. <i>Journal of Agricultural and Food Chemistry</i> , 2010 , 58, 5743-50	5.7	43
137	Oxidized nanocellulose facilitates preparing photoluminescent nitrogen-doped fluorescent carbon dots for Fe ³⁺ ions detection and bioimaging. <i>Chemical Engineering Journal</i> , 2020 , 384, 123260	14.7	43
136	Green Process for Extraction of Lignin by the Microwave-Assisted Ionic Liquid Approach: Toward Biomass Biorefinery and Lignin Characterization. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 13062-13072	8.3	42
135	Efficient separation and physico-chemical characterization of lignin from eucalyptus using ionic liquid/organic solvent and alkaline ethanol solvent. <i>Industrial Crops and Products</i> , 2013 , 47, 277-285	5.9	42
134	Isolation and physico-chemical characterization of lignins from ultrasound irradiated fast-growing poplar wood. <i>BioResources</i> , 2011 , 6, 414-433	1.3	42
133	Effects of aluminum chloride-catalyzed hydrothermal pretreatment on the structural characteristics of lignin and enzymatic hydrolysis. <i>Bioresource Technology</i> , 2016 , 206, 57-64	11	41
132	Unraveling the structural characteristics of lignin in hydrothermal pretreated fibers and manufactured binderless boards from <i>Eucalyptus grandis</i> . <i>Sustainable Chemical Processes</i> , 2014 , 2, 9		41
131	Sequential utilization of bamboo biomass through reductive catalytic fractionation of lignin. <i>Bioresource Technology</i> , 2019 , 285, 121335	11	40
130	<i>Eucommia ulmoides</i> Oliver: A Potential Feedstock for Bioactive Products. <i>Journal of Agricultural and Food Chemistry</i> , 2018 , 66, 5433-5438	5.7	40
129	Fractional and structural characterization of lignin and its modification as biosorbents for efficient removal of chromium from wastewater: a review. <i>Journal of Leather Science and Engineering</i> , 2019 , 1,	3.6	40
128	Advanced Compressible and Elastic 3D Monoliths beyond Hydrogels. <i>Advanced Functional Materials</i> , 2019 , 29, 1904472	15.6	40
127	Production of xylooligosaccharides by microwave-induced, organic acid-catalyzed hydrolysis of different xylan-type hemicelluloses: Optimization by response surface methodology. <i>Carbohydrate Polymers</i> , 2017 , 157, 214-225	10.3	40
126	Characterization of Lignins Isolated with Alkaline Ethanol from the Hydrothermal Pretreated <i>Tamarix ramosissima</i> . <i>Bioenergy Research</i> , 2013 , 6, 519-532	3.1	40
125	Superelastic Carbon Aerogel with Ultrahigh and Wide-Range Linear Sensitivity. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 40641-40650	9.5	40
124	Structural elucidation of sorghum lignins from an integrated biorefinery process based on hydrothermal and alkaline treatments. <i>Journal of Agricultural and Food Chemistry</i> , 2014 , 62, 8120-8	5.7	39

123	Synthesis and characterization of hydrophobic long-chain fatty acylated cellulose and its self-assembled nanoparticles. <i>Polymer Bulletin</i> , 2012 , 69, 389-403	2.4	39
122	Revealing the structure and distribution changes of Eucalyptus lignin during the hydrothermal and alkaline pretreatments. <i>Scientific Reports</i> , 2017 , 7, 593	4.9	38
121	High Production Yield and More Thermally Stable Lignin-Containing Cellulose Nanocrystals Isolated Using a Ternary Acidic Deep Eutectic Solvent. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 7182-7191	8.3	38
120	Heat Treatment of Industrial Alkaline Lignin and its Potential Application as an Adhesive for Green Wood-Lignin Composites. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 7269-7277	8.3	38
119	Chemodivergent hydrogenolysis of eucalyptus lignin with Ni@ZIF-8 catalyst. <i>Green Chemistry</i> , 2019 , 21, 1498-1504	10	38
118	Self-Assembled Conjugated Polymer/Chitosan-graft-Oleic Acid Micelles for Fast Visible Detection of Aliphatic Biogenic Amines by "Turn-On" FRET. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 22875-22884	9.5	37
117	Structural Variation of Lignin and Lignin-Carbohydrate Complex in Eucalyptus grandis L. uruphylla during Its Growth Process. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 1113-1122	8.3	37
116	Production of xylo-sugars from corn cob by oxalic acid-assisted ball milling and microwave-induced hydrothermal treatments. <i>Industrial Crops and Products</i> , 2016 , 79, 137-145	5.9	36
115	Fractional isolation and chemical structure of hemicellulosic polymers obtained from Bambusa rigida species. <i>Journal of Agricultural and Food Chemistry</i> , 2010 , 58, 11372-83	5.7	36
114	New Understandings of the Relationship and Initial Formation Mechanism for Pseudo-lignin, Humins, and Acid-Induced Hydrothermal Carbon. <i>Journal of Agricultural and Food Chemistry</i> , 2018 , 66, 11981-11989	5.7	36
113	Effect of hot-water extraction on alkaline pulping of bagasse. <i>Biotechnology Advances</i> , 2010 , 28, 609-12	17.8	35
112	Fragmentation of Woody Lignocellulose into Primary Monolignols and Their Derivatives. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 4666-4674	8.3	34
111	Lignin Source and Structural Characterization. <i>ChemSusChem</i> , 2020 , 13, 4385-4393	8.3	34
110	Gasification of bio-oil: Effects of equivalence ratio and gasifying agents on product distribution and gasification efficiency. <i>Bioresource Technology</i> , 2016 , 211, 164-72	11	34
109	D-Xylonic acid: a solvent and an effective biocatalyst for a three-component reaction. <i>Green Chemistry</i> , 2016 , 18, 1738-1750	10	34
108	Structural and dynamic changes of lignin in Eucalyptus cell walls during successive alkaline ethanol treatments. <i>Industrial Crops and Products</i> , 2015 , 74, 200-208	5.9	34
107	Direct grafting modification of pulp in ionic liquids and self-assembly behavior of the graft copolymers. <i>Cellulose</i> , 2013 , 20, 873-884	5.5	34
106	Effects of Various Surfactants on Alkali Lignin Electrospinning Ability and Spun Fibers. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 9551-9559	3.9	33

105	Microwave-assisted conversion of biomass derived hemicelluloses into xylo-oligosaccharides by novel sulfonated bamboo-based catalysts. <i>Biomass and Bioenergy</i> , 2015 , 75, 245-253	5.3	32
104	Three-step cascade over a single catalyst: synthesis of 5-(ethoxymethyl)furfural from glucose over a hierarchical lamellar multi-functional zeolite catalyst. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 7693-7705	7.1	32
103	Structural and Hydrolysis Characteristics of Cypress Pretreated by Ionic Liquids in a Microwave Irradiation Environment. <i>Bioenergy Research</i> , 2014 , 7, 1305-1316	3.1	32
102	Fabrication and Characterization of Regenerated Cellulose Films Using Different Ionic Liquids. <i>Journal of Spectroscopy</i> , 2014 , 2014, 1-8	1.5	32
101	Catechyl Lignin Extracted from Castor Seed Coats Using Deep Eutectic Solvents: Characterization and Depolymerization. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 7031-7038	8.3	31
100	Preparation of Lignin-Phenol-Formaldehyde Resin Adhesive Based on Active Sites of Technical Lignin. <i>Journal of Biobased Materials and Bioenergy</i> , 2015 , 9, 266-272	1.4	31
99	Lignin-Derived Thioacidolysis Dimers: Reevaluation, New Products, Authentication, and Quantification. <i>ChemSusChem</i> , 2017 , 10, 830-835	8.3	30
98	Facile approach to prepare drug-loading film from hemicelluloses and chitosan. <i>Carbohydrate Polymers</i> , 2016 , 153, 542-548	10.3	30
97	Advanced and versatile lignin-derived biodegradable composite film materials toward a sustainable world. <i>Green Chemistry</i> , 2021 , 23, 3790-3817	10	30
96	Structural variations of lignin macromolecule from different growth years of Triploid of <i>Populus tomentosa</i> Carr. <i>International Journal of Biological Macromolecules</i> , 2017 , 101, 747-757	7.9	29
95	Isolation and analysis of four constituents from barks and leaves of <i>Eucommia ulmoides</i> Oliver by a multi-step process. <i>Industrial Crops and Products</i> , 2016 , 83, 124-132	5.9	29
94	Synergistic benefits of ionic liquid and alkaline pretreatments of poplar wood. Part 1: effect of integrated pretreatment on enzymatic hydrolysis. <i>Bioresource Technology</i> , 2013 , 144, 429-34	11	29
93	Synthesis and characterization of new 5-linked pinoresinol lignin models. <i>Chemistry - A European Journal</i> , 2012 , 18, 16402-10	4.8	29
92	Hydrogenolysis of biorefinery corncob lignin into aromatic phenols over activated carbon-supported nickel. <i>Sustainable Energy and Fuels</i> , 2019 , 3, 401-408	5.8	29
91	Selective precipitation and characterization of lignin-carbohydrate complexes (LCCs) from Eucalyptus. <i>Planta</i> , 2018 , 247, 1077-1087	4.7	28
90	Homogeneous lauroylation of ball-milled bamboo in ionic liquid for bio-based composites production: Part I: Modification and characterization. <i>Industrial Crops and Products</i> , 2011 , 34, 1491-1501	5.9	28
89	Lignosulfonic Acid: A Renewable and Effective Biomass-Based Catalyst for Multicomponent Reactions. <i>ACS Sustainable Chemistry and Engineering</i> , 2015 , 3, 1366-1373	8.3	27
88	Comparative study of anatomy and lignin distribution in normal and tension wood of <i>Salix gordejecii</i> . <i>Wood Science and Technology</i> , 2006 , 40, 358-370	2.5	27

87	All-Biomass Fluorescent Hydrogels Based on Biomass Carbon Dots and Alginate/Nanocellulose for Biosensing.. <i>ACS Applied Bio Materials</i> , 2018 , 1, 1398-1407	4.1	27
86	Unraveling the Fate of Lignin from Eucalyptus and Poplar during Integrated Delignification and Bleaching. <i>ChemSusChem</i> , 2019 , 12, 1059-1068	8.3	26
85	Fabrication of antimicrobial composite films based on xylan from pulping process for food packaging. <i>International Journal of Biological Macromolecules</i> , 2019 , 134, 122-130	7.9	25
84	Acidic deep eutectic solvent assisted isolation of lignin containing nanocellulose from thermomechanical pulp. <i>Carbohydrate Polymers</i> , 2020 , 247, 116727	10.3	25
83	Life-cycle assessment and techno-economic analysis of the utilization of bio-oil components for the production of three chemicals. <i>Green Chemistry</i> , 2018 , 20, 3287-3301	10	25
82	Recent advances in lignocellulose prior-fractionation for biomaterials, biochemicals, and bioenergy. <i>Carbohydrate Polymers</i> , 2021 , 261, 117884	10.3	25
81	Structural Elucidation of Whole Lignin in Cell Walls of Triploid of Populus tomentosa Carr.. <i>ACS Sustainable Chemistry and Engineering</i> , 2016 , 4, 1006-1015	8.3	24
80	Functional B@mCN-assisted photocatalytic oxidation of biomass-derived pentoses and hexoses to lactic acid. <i>Green Chemistry</i> , 2020 , 22, 6384-6392	10	24
79	Synthesis, characterization, and micellar behaviors of hydroxyethyl cellulose-graft-poly(lactide/ε-caprolactone/p-dioxanone). <i>Cellulose</i> , 2015 , 22, 2365-2374	5.5	23
78	Cellulosic micelles as nanocapsules of liposoluble CdSe/ZnS quantum dots for bioimaging. <i>Journal of Materials Chemistry B</i> , 2016 , 4, 6454-6461	7.3	23
77	Structural Variations of Lignin Macromolecules from Early Growth Stages of Poplar Cell Walls. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 1813-1822	8.3	23
76	Evaluation of xylooligosaccharide production from residual hemicelluloses of dissolving pulp by acid and enzymatic hydrolysis.. <i>RSC Advances</i> , 2018 , 8, 35211-35217	3.7	23
75	Structural characterization of lignin in heartwood, sapwood, and bark of eucalyptus. <i>International Journal of Biological Macromolecules</i> , 2019 , 138, 519-527	7.9	22
74	Hemicelluloses/montmorillonite hybrid films with improved mechanical and barrier properties. <i>Scientific Reports</i> , 2015 , 5, 16405	4.9	22
73	Enhancement of Lignin Biopolymer Isolation from Hybrid Poplar by Organosolv Pretreatments. <i>International Journal of Polymer Science</i> , 2014 , 2014, 1-10	2.4	22
72	Preparation of sulfur-doped carbon quantum dots from lignin as a sensor to detect Sudan I in an acidic environment. <i>Journal of Materials Chemistry B</i> , 2020 , 8, 10788-10796	7.3	22
71	Lignin-AuNPs liquid marble for remotely-controllable detection of Pb. <i>Scientific Reports</i> , 2016 , 6, 38164	4.9	22
70	Au@h-Al ₂ O ₃ analogic yolk-shell nanocatalyst for highly selective synthesis of biomass-derived D-xylonic acid via regulation of structure effects. <i>Green Chemistry</i> , 2018 , 20, 5188-5195	10	22

69	The effect of ionic liquids pretreatment on the distribution and structure of alkali-soluble hemicelluloses from Eucalyptus. <i>Separation and Purification Technology</i> , 2018 , 191, 364-369	8.3	21
68	Chemical Changes of Raw Materials and Manufactured Binderless Boards during Hot Pressing: Lignin Isolation and Characterization. <i>BioResources</i> , 2013 , 9,	1.3	21
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