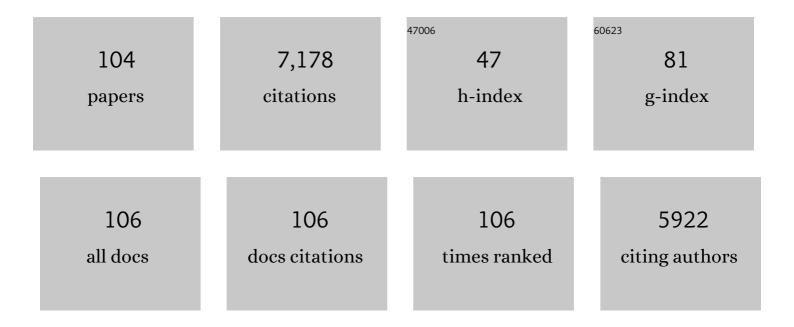
List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Characterization of Lignin Structures and Lignin–Carbohydrate Complex (LCC) Linkages by Quantitative ¹³ C and 2D HSQC NMR Spectroscopy. Journal of Agricultural and Food Chemistry, 2011, 59, 10604-10614.	5.2	483
2	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.	9.0	445
3	Understanding the chemical transformations of lignin during ionic liquid pretreatment. Green Chemistry, 2014, 16, 181-190.	9.0	260
4	Manufacture and application of lignin-based carbon fibers (LCFs) and lignin-based carbon nanofibers (LCNFs). Green Chemistry, 2017, 19, 1794-1827.	9.0	216
5	Progress in microwave pyrolysis conversion of agricultural waste to value-added biofuels: A batch to continuous approach. Renewable and Sustainable Energy Reviews, 2021, 135, 110148.	16.4	206
6	Understanding the chemical and structural transformations of lignin macromolecule during torrefaction. Applied Energy, 2014, 121, 1-9.	10.1	190
7	A lignosulfonate-modified graphene hydrogel with ultrahigh adsorption capacity for Pb(<scp>ii</scp>) removal. Journal of Materials Chemistry A, 2016, 4, 11888-11896.	10.3	169
8	Structural elucidation of whole lignin from Eucalyptus based on preswelling and enzymatic hydrolysis. Green Chemistry, 2015, 17, 1589-1596.	9.0	157
9	Structure–function relationships of deep eutectic solvents for lignin extraction and chemical transformation. Green Chemistry, 2020, 22, 7219-7232.	9.0	151
10	The Chinese pine genome and methylome unveil key features of conifer evolution. Cell, 2022, 185, 204-217.e14.	28.9	151
11	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.	6.7	148
12	Fractionation and physico-chemical analysis of degraded lignins from the black liquor of Eucalyptus pellita KP-AQ pulping. Polymer Degradation and Stability, 2009, 94, 1142-1150.	5.8	132
13	Structural and Morphological Transformations of Lignin Macromolecules during Bio-Based Deep Eutectic Solvent (DES) Pretreatment. ACS Sustainable Chemistry and Engineering, 2020, 8, 2130-2137.	6.7	131
14	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.	9.0	123
15	Structural Characteristics of Lignin Macromolecules from Different <i>Eucalyptus</i> Species. ACS Sustainable Chemistry and Engineering, 2017, 5, 11618-11627.	6.7	122
16	Role of lignin in a biorefinery: separation characterization and valorization. Journal of Chemical Technology and Biotechnology, 2013, 88, 346-352.	3.2	120
17	Lewis Acid-Facilitated Deep Eutectic Solvent (DES) Pretreatment for Producing High-Purity and Antioxidative Lignin. ACS Sustainable Chemistry and Engineering, 2020, 8, 1050-1057.	6.7	117
18	Recent progress on biomassâ€derived ecomaterials toward advanced rechargeable lithium batteries. EcoMat, 2020, 2, e12019.	11.9	117

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19	Advanced and versatile lignin-derived biodegradable composite film materials toward a sustainable world. Green Chemistry, 2021, 23, 3790-3817.	9.0	114
20	Economically Competitive Biodegradable PBAT/Lignin Composites: Effect of Lignin Methylation and Compatibilizer. ACS Sustainable Chemistry and Engineering, 2020, 8, 5338-5346.	6.7	113
21	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.	11.7	112
22	Structural Elucidation of Lignin Polymers of <i>Eucalyptus</i> Chips during Organosolv Pretreatment and Extended Delignification. Journal of Agricultural and Food Chemistry, 2013, 61, 11067-11075.	5.2	109
23	Structural Characterization of Lignin from Triploid of Populus tomentosa Carr Journal of Agricultural and Food Chemistry, 2011, 59, 6605-6615.	5.2	108
24	Electrolyte Regulation towards Stable Lithiumâ€Metal Anodes in Lithium–Sulfur Batteries with Sulfurized Polyacrylonitrile Cathodes. Angewandte Chemie - International Edition, 2020, 59, 10732-10745.	13.8	108
25	Characterization and phenolation of biorefinery technical lignins for lignin–phenol–formaldehyde resin adhesive synthesis. RSC Advances, 2014, 4, 57996-58004.	3.6	103
26	Effect of ionic liquid/organic solvent pretreatment on the enzymatic hydrolysis of corncob for bioethanol production. Part 1: Structural characterization of the lignins. Industrial Crops and Products, 2013, 43, 570-577.	5.2	97
27	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.	9.6	95
28	Plasticized hemicelluloses/chitosan-based edible films reinforced by cellulose nanofiber with enhanced mechanical properties. Carbohydrate Polymers, 2019, 224, 115164.	10.2	93
29	In situ regulated solid electrolyte interphase via reactive separators for highly efficient lithium metal batteries. Energy Storage Materials, 2020, 30, 27-33.	18.0	90
30	A Mixed Ether Electrolyte for Lithium Metal Anode Protection in Working Lithium–Sulfur Batteries. Energy and Environmental Materials, 2020, 3, 160-165.	12.8	85
31	Structure-property relationships for technical lignins for the production of lignin-phenol-formaldehyde resins. Industrial Crops and Products, 2017, 108, 316-326.	5.2	84
32	Electrolyte Regulation towards Stable Lithiumâ€Metal Anodes in Lithium–Sulfur Batteries with Sulfurized Polyacrylonitrile Cathodes. Angewandte Chemie, 2020, 132, 10821-10834.	2.0	80
33	Microwave-assisted deep eutectic solvents (DES) pretreatment of control and transgenic poplars for boosting the lignin valorization and cellulose bioconversion. Industrial Crops and Products, 2021, 164, 113415.	5.2	79
34	Effect of compression combined with steam treatment on the porosity, chemical compositon and cellulose crystalline structure of wood cell walls. Carbohydrate Polymers, 2017, 155, 163-172.	10.2	74
35	Lignin–phenol–formaldehyde resin adhesives prepared with biorefinery technical lignins. Journal of Applied Polymer Science, 2015, 132, .	2.6	72
36	Redox mediator assists electron transfer in lithium–sulfur batteries with sulfurized polyacrylonitrile cathodes. EcoMat, 2021, 3, e12066.	11.9	69

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37	Heat Treatment of Industrial Alkaline Lignin and its Potential Application as an Adhesive for Green Wood–Lignin Composites. ACS Sustainable Chemistry and Engineering, 2017, 5, 7269-7277.	6.7	63
38	Downstream Processing Strategies for Ligninâ€First Biorefinery. ChemSusChem, 2020, 13, 5199-5212.	6.8	62
39	Tunable, UV-shielding and biodegradable composites based on well-characterized lignins and poly(butylene adipate- <i>co</i> -terephthalate). Green Chemistry, 2020, 22, 8623-8632.	9.0	59
40	Structural Variations of Lignin Macromolecules from Early Growth Stages of Poplar Cell Walls. ACS Sustainable Chemistry and Engineering, 2020, 8, 1813-1822.	6.7	56
41	Structural variations of lignin macromolecule from different growth years of Triploid of Populus tomentosa Carr International Journal of Biological Macromolecules, 2017, 101, 747-757.	7.5	54
42	Ultrastructural change in lignocellulosic biomass during hydrothermal pretreatment. Bioresource Technology, 2021, 341, 125807.	9.6	54
43	Structural Variation of Lignin and Lignin–Carbohydrate Complex in <i>Eucalyptus grandis × E. urophylla</i> during Its Growth Process. ACS Sustainable Chemistry and Engineering, 2017, 5, 1113-1122.	6.7	53
44	Unraveling the structural characteristics of lignin in hydrothermal pretreated fibers and manufactured binderless boards from Eucalyptus grandis. Sustainable Chemical Processes, 2014, 2, .	2.3	52
45	A synergistic hydrothermal-deep eutectic solvent (DES) pretreatment for rapid fractionation and targeted valorization of hemicelluloses and cellulose from poplar wood. Bioresource Technology, 2021, 341, 125828.	9.6	52
46	Structural elucidation of lignin macromolecule from abaca during alkaline hydrogen peroxide delignification. International Journal of Biological Macromolecules, 2020, 144, 596-602.	7.5	51
47	Improved value and carbon footprint by complete utilization of corncob lignocellulose. Chemical Engineering Journal, 2021, 419, 129565.	12.7	50
48	Study on thermal degradation kinetics of cellulose-graft-poly(l-lactic acid) by thermogravimetric analysis. Polymer Degradation and Stability, 2014, 99, 233-239.	5.8	49
49	Effects of Various Surfactants on Alkali Lignin Electrospinning Ability and Spun Fibers. Industrial & Engineering Chemistry Research, 2017, 56, 9551-9559.	3.7	49
50	Raney Ni as a Versatile Catalyst for Biomass Conversion. ACS Catalysis, 2021, 11, 10508-10536.	11.2	49
51	Isolation and physico-chemical characterization of lignins from ultrasound irradiated fast-growing poplar wood. BioResources, 2011, 6, 414-433.	1.0	48
52	A review on production of lignin-based ï¬,occulants: Sustainable feedstock and low carbon footprint applications. Renewable and Sustainable Energy Reviews, 2020, 134, 110384.	16.4	46
53	Short-time deep eutectic solvents pretreatment enhanced production of fermentable sugars and tailored lignin nanoparticles from abaca. International Journal of Biological Macromolecules, 2021, 192, 417-425.	7.5	46
54	Green synthesis of chemical converted graphene sheets derived from pulping black liquor. Carbon, 2020, 158, 690-697.	10.3	45

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55	Hydrothermal degradation of lignin: Products analysis for phenol formaldehyde adhesive synthesis. International Journal of Biological Macromolecules, 2015, 72, 54-62.	7.5	44
56	Preparation of Lignin-Phenol-Formaldehyde Resin Adhesive Based on Active Sites of Technical Lignin. Journal of Biobased Materials and Bioenergy, 2015, 9, 266-272.	0.3	39
57	Selective precipitation and characterization of lignin–carbohydrate complexes (LCCs) from Eucalyptus. Planta, 2018, 247, 1077-1087.	3.2	39
58	Valorization of lignin and cellulose in acid-steam-exploded corn stover by a moderate alkaline ethanol post-treatment based on an integrated biorefinery concept. Biotechnology for Biofuels, 2016, 9, 238.	6.2	38
59	Lignin-derived materials and their applications in rechargeable batteries. Green Chemistry, 2022, 24, 565-584.	9.0	37
60	Structural characterization of lignin in heartwood, sapwood, and bark of eucalyptus. International Journal of Biological Macromolecules, 2019, 138, 519-527.	7.5	36
61	Use of xylooligosaccharides (XOS) in hemicelluloses/chitosan-based films reinforced by cellulose nanofiber: Effect on physicochemical properties. Food Chemistry, 2019, 298, 125041.	8.2	35
62	Homogeneous Esterification of Poplar Wood in an Ionic Liquid under Mild Conditions: Characterization and Properties. Journal of Agricultural and Food Chemistry, 2010, 58, 11302-11310.	5.2	34
63	Synergistic benefits of ionic liquid and alkaline pretreatments of poplar wood. Part 1: Effect of integrated pretreatment on enzymatic hydrolysis. Bioresource Technology, 2013, 144, 429-434.	9.6	34
64	Effect of ultrasonic time on the structural and physico-chemical properties of hemicelluloses from Eucalyptus grandis. Carbohydrate Polymers, 2018, 195, 114-119.	10.2	34
65	Synergistic benefits of ionic liquid and alkaline pretreatments of poplar wood. Part 2: Characterization of lignin and hemicelluloses. Bioresource Technology, 2013, 136, 345-350.	9.6	33
66	Technical Lignin Valorization in Biodegradable Polyester-Based Plastics (BPPs). ACS Sustainable Chemistry and Engineering, 2021, 9, 12017-12042.	6.7	33
67	Ultrafast alkaline deep eutectic solvent pretreatment for enhancing enzymatic saccharification and lignin fractionation from industrial xylose residue. Bioresource Technology, 2022, 352, 127065.	9.6	33
68	Eco-Friendly Phenol–Urea–Formaldehyde Co-condensed Resin Adhesives Accelerated by Resorcinol for Plywood Manufacturing. ACS Omega, 2018, 3, 8521-8528.	3.5	32
69	Chemical Changes of Raw Materials and Manufactured Binderless Boards during Hot Pressing: Lignin Isolation and Characterization. BioResources, 2013, 9, .	1.0	30
70	Structural Elucidation of Whole Lignin in Cell Walls of Triploid of <i>Populus tomentosa</i> Carr ACS Sustainable Chemistry and Engineering, 2016, 4, 1006-1015.	6.7	29
71	One-pot preparation and characterization of lignin-based cation exchange resin and its utilization in Pb (II) removal. Bioresource Technology, 2020, 295, 122297.	9.6	29
72	Preparation and Characterization of Lignocellulosic Oil Sorbent by Hydrothermal Treatment of Populus Fiber. Materials, 2014, 7, 6733-6747.	2.9	27

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73	Effect of integrated treatment on improving the enzymatic digestibility of poplar and the structural features of isolated hemicelluloses. Carbohydrate Polymers, 2021, 252, 117164.	10.2	27
74	The direct transformation of bioethanol fermentation residues for production of high-quality resins. Green Chemistry, 2020, 22, 439-447.	9.0	26
75	Improvement in Wood Bonding Strength of Poly (Vinyl Acetate-Butyl Acrylate) Emulsion by Controlling the Amount of Redox Initiator. Materials, 2018, 11, 89.	2.9	25
76	Fractionation of technical lignin and its application on the lignin/poly-(butylene) Tj ETQq0 0 0 rgBT /Overlock 10 209, 1065-1074.	Tf 50 627 7.5	Td (adipate-c 25
77	Reconstitution of cellulose and lignin after [C ₂ mim][OAc] pretreatment and its relation to enzymatic hydrolysis. Biotechnology and Bioengineering, 2013, 110, 729-736.	3.3	24
78	Microwave-Assisted Sulfonation of Lignin for the Fabrication of a High-Performance Dye Dispersant. ACS Sustainable Chemistry and Engineering, 2021, 9, 9053-9061.	6.7	24
79	Efficient fractionation of bamboo residue by autohydrolysis and deep eutectic solvents pretreatment. Bioresource Technology, 2022, 354, 127225.	9.6	23
80	Separation and Structural Characterization of Lignin from Hybrid Poplar Based on Complete Dissolution in DMSO/LiCl. Separation Science and Technology, 2010, 45, 2497-2506.	2.5	22
81	Compressive Alginate Sponge Derived from Seaweed Biomass Resources for Methylene Blue Removal from Wastewater. Polymers, 2019, 11, 961.	4.5	21
82	Integrated Hot-Compressed Water and Laccase-Mediator Treatments of <i>Eucalyptus grandis</i> Fibers: Structural Changes of Fiber and Lignin. Journal of Agricultural and Food Chemistry, 2015, 63, 1763-1772.	5.2	19
83	Effects of Hydrothermal Pretreatment on the Structural Characteristics of Organosolv Lignin from Triarrhena lutarioriparia. Polymers, 2018, 10, 1157.	4.5	19
84	Ultrafast fractionation of wild-type and CSE down-regulated poplars by microwave-assisted deep eutectic solvents (DES) for cellulose bioconversion enhancement and lignin nanoparticles fabrication. Industrial Crops and Products, 2022, 176, 114275.	5.2	19
85	A bio-based coating onto the surface Populus fiber for oil spillage cleanup applications. Industrial Crops and Products, 2017, 98, 38-45.	5.2	18
86	Valorization of Technical Lignin for the Production of Desirable Resins with High Substitution Rate and Controllable Viscosity. ChemSusChem, 2020, 13, 4446-4454.	6.8	18
87	Recent Advances in the Catalytic Upgrading of Biomass Platform Chemicals Via Hydrotalcite-Derived Metal Catalysts. Transactions of Tianjin University, 2022, 28, 89-111.	6.4	17
88	Structural Features of Alkaline Dioxane Lignin and Residual Lignin from <i>Eucalyptus grandis × E. urophylla</i> . Journal of Agricultural and Food Chemistry, 2019, 67, 968-974.	5.2	16
89	A sustainable agricultural strategy integrating Cd-contaminated soils remediation and bioethanol production using sorghum cultivars. Industrial Crops and Products, 2021, 162, 113299.	5.2	16
90	Exploration of deep eutectic solvent-based biphasic system for furfural production and enhancing enzymatic hydrolysis: Chemical, topochemical, and morphological changes. Bioresource Technology, 2022, 352, 127074.	9.6	15

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91	Homogeneous butyrylation and lauroylation of poplar wood in the ionic liquid 1-butyl-3-methylimidazolium chloride. Bioresource Technology, 2011, 102, 4590-4593.	9.6	14
92	Unmasking the heterogeneity of carbohydrates in heartwood, sapwood, and bark of Eucalyptus. Carbohydrate Polymers, 2020, 238, 116212.	10.2	14
93	Revealing the Topochemistry and Structural Features of Lignin during the Growth of <i>Eucalyptus grandis</i> × <i>Eucalyptus urophylla</i> . ACS Sustainable Chemistry and Engineering, 2018, 6, 9198-9207.	6.7	13
94	Unveiling the Migration and Transformation Mechanism of Lignin in <i>Eucalyptus</i> During Deep Eutectic Solvent Pretreatment. ChemSusChem, 2022, 15, .	6.8	13
95	Comparison of cellulose and chitin nanocrystals for reinforcing regenerated cellulose fibers. Journal of Applied Polymer Science, 2017, 134, .	2.6	11
96	SYNTHESIS AND CHARACTERIZATION OF CELLULOSE-GRAFT-POLY (L-LACTIDE) VIA RING-OPENING POLYMERIZATION. BioResources, 2012, 7, .	1.0	10
97	Upgrading Traditional Pulp Mill into Biorefinery Platform: Wheat Straw as a Feedstock. ACS Sustainable Chemistry and Engineering, 2018, 6, 15284-15291.	6.7	9
98	Insights into Structural Transformations of Lignin Toward High Reactivity During Choline Chloride/Formic Acid Deep Eutectic Solvents Pretreatment. Frontiers in Energy Research, 2020, 8, .	2.3	9
99	Effect of alkaline preswelling on the structure of lignins from Eucalyptus. Scientific Reports, 2017, 7, 45752.	3.3	7
100	A scalable and simple lignin-based polymer for ultra-efficient flocculation and sterilization. Separation and Purification Technology, 2022, 292, 120960.	7.9	7
101	Ultrastructural elucidation of lignin macromolecule from different growth stages of Chinese pine. International Journal of Biological Macromolecules, 2022, 209, 1792-1800.	7.5	6
102	Aldehydes-Aided Lignin-First Deconstruction Strategy for Facilitating Lignin Monomers and Fermentable Glucose Production from Poplar Wood. Energies, 2020, 13, 1113.	3.1	4
103	Performance regulation of lignin-based flocculant at the practical molecular level by fractionation. Separation and Purification Technology, 2022, 299, 121670.	7.9	4
104	Recent Advances in Lignin Modification and Its Application in Wastewater Treatment. ACS Symposium Series, 2021, , 143-173.	0.5	3