

# Caoxing Huang

## List of Publications by Citations

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159  
papers

3,492  
citations

35  
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175  
ext. papers

5,029  
ext. citations

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avg, IF

6.33  
L-index

#	Paper	IF	Citations
159	Coupling the post-extraction process to remove residual lignin and alter the recalcitrant structures for improving the enzymatic digestibility of acid-pretreated bamboo residues. <i>Bioresource Technology</i> , <b>2019</b> , 285, 121355	11	176
158	Characterization and Application of Lignin-Carbohydrate Complexes from Lignocellulosic Materials as Antioxidants for Scavenging In Vitro and In Vivo Reactive Oxygen Species. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> , 8, 256-266	8.3	140
157	Insight into understanding the performance of deep eutectic solvent pretreatment on improving enzymatic digestibility of bamboo residues. <i>Bioresource Technology</i> , <b>2020</b> , 306, 123163	11	136
156	A sustainable process for procuring biologically active fractions of high-purity xylooligosaccharides and water-soluble lignin from bamboo prehydrolyzate. <i>Biotechnology for Biofuels</i> , <b>2019</b> , 12, 189	7.8	130
155	Improving enzymatic hydrolysis of acid-pretreated bamboo residues using amphiphilic surfactant derived from dehydroabiatic acid. <i>Bioresource Technology</i> , <b>2019</b> , 293, 122055	11	87
154	Synthesis of Carbon Quantum Dot Nanoparticles Derived from Byproducts in Bio-Refinery Process for Cell Imaging and In Vivo Bioimaging. <i>Nanomaterials</i> , <b>2019</b> , 9,	5.4	83
153	Synthesis of Magnetic Wood with Excellent and Tunable Electromagnetic Wave-Absorbing Properties by a Facile Vacuum/Pressure Impregnation Method. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 1000-1008	8.3	67
152	Procuring the nano-scale lignin in prehydrolyzate as ingredient to prepare cellulose nanofibril composite film with multiple functions. <i>Cellulose</i> , <b>2020</b> , 27, 9355-9370	5.5	62
151	Novel process for the coproduction of xylo-oligosaccharides, fermentable sugars, and lignosulfonates from hardwood. <i>Bioresource Technology</i> , <b>2016</b> , 219, 600-607	11	61
150	Unveiling the Structural Properties of Lignin-Carbohydrate Complexes in Bamboo Residues and Its Functionality as Antioxidants and Immunostimulants. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 12522-12531	8.3	61
149	Characterization of Kraft Lignin Fractions Obtained by Sequential Ultrafiltration and Their Potential Application as a Biobased Component in Blends with Polyethylene. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2017</b> , 5, 11770-11779	8.3	58
148	Structural Characterization of the Lignins from the Green and Yellow Bamboo of Bamboo Culm ( <i>Phyllostachys pubescens</i> ). <i>Journal of Wood Chemistry and Technology</i> , <b>2016</b> , 36, 157-172	2	57
147	Using lignin as the precursor to synthesize Fe <sub>3</sub> O <sub>4</sub> @lignin composite for preparing electromagnetic wave absorbing lignin-phenol-formaldehyde adhesive. <i>Industrial Crops and Products</i> , <b>2020</b> , 154, 112638	5.9	56
146	Impacts of lignocellulose-derived inhibitors on L-lactic acid fermentation by <i>Rhizopus oryzae</i> . <i>Bioresource Technology</i> , <b>2016</b> , 203, 173-80	11	53
145	Enhancing the enzymatic digestibility of bamboo residues by biphasic phenoxyethanol-acid pretreatment. <i>Bioresource Technology</i> , <b>2021</b> , 325, 124691	11	51
144	An integrated process to produce bio-ethanol and xylooligosaccharides rich in xylobiose and xylotriose from high ash content waste wheat straw. <i>Bioresource Technology</i> , <b>2017</b> , 241, 228-235	11	50
143	Deconstruction of oriented crystalline cellulose by novel levulinic acid based deep eutectic solvents pretreatment for improved enzymatic accessibility. <i>Bioresource Technology</i> , <b>2020</b> , 305, 123025	11	50

142	Understanding the Nonproductive Enzyme Adsorption and Physicochemical Properties of Residual Lignins in Moso Bamboo Pretreated with Sulfuric Acid and Kraft Pulping. <i>Applied Biochemistry and Biotechnology</i> , <b>2016</b> , 180, 1508-1523	3.2	48
141	Influence of sulfur dioxide-ethanol-water pretreatment on the physicochemical properties and enzymatic digestibility of bamboo residues. <i>Bioresource Technology</i> , <b>2018</b> , 263, 17-24	11	47
140	Lignin-enzyme interaction: A roadblock for efficient enzymatic hydrolysis of lignocellulosics. <i>Renewable and Sustainable Energy Reviews</i> , <b>2022</b> , 154, 111822	16.2	47
139	Evaluating the bio-application of biomacromolecule of lignin-carbohydrate complexes (LCC) from wheat straw in bone metabolism via ROS scavenging. <i>International Journal of Biological Macromolecules</i> , <b>2021</b> , 176, 13-25	7.9	47
138	Preparation of Lignosulfonates from Biorefinery Lignins by Sulfomethylation and Their Application as a Water Reducer for Concrete. <i>Polymers</i> , <b>2018</b> , 10,	4.5	46
137	Stimulation and inhibition of enzymatic hydrolysis by organosolv lignins as determined by zeta potential and hydrophobicity. <i>Biotechnology for Biofuels</i> , <b>2017</b> , 10, 162	7.8	46
136	Facilitating the enzymatic saccharification of pulped bamboo residues by degrading the remained xylan and lignin-carbohydrates complexes. <i>Bioresource Technology</i> , <b>2015</b> , 192, 471-7	11	44
135	Enhanced enzymatic digestibility of mixed wood sawdust by lignin modification with naphthol derivatives during dilute acid pretreatment. <i>Bioresource Technology</i> , <b>2018</b> , 269, 18-24	11	44
134	Lignin Alkylation Enhances Enzymatic Hydrolysis of Lignocellulosic Biomass. <i>Energy &amp; Fuels</i> , <b>2017</b> , 31, 12317-12326	4.1	42
133	Improving enzymatic hydrolysis efficiency of wheat straw through sequential autohydrolysis and alkaline post-extraction. <i>Bioresource Technology</i> , <b>2018</b> , 251, 374-380	11	42
132	Prewashing enhances the liquid hot water pretreatment efficiency of waste wheat straw with high free ash content. <i>Bioresource Technology</i> , <b>2016</b> , 219, 583-588	11	41
131	Co-production of xylooligosaccharides and fermentable sugars from poplar through acetic acid pretreatment followed by poly (ethylene glycol) ether assisted alkali treatment. <i>Bioresource Technology</i> , <b>2019</b> , 288, 121569	11	40
130	Revealing the effects of centuries of ageing on the chemical structural features of lignin in archaeological fir woods. <i>New Journal of Chemistry</i> , <b>2019</b> , 43, 3520-3528	3.6	36
129	Coupling Biocompatible Au Nanoclusters and Cellulose Nanofibrils to Prepare the Antibacterial Nanocomposite Films. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2020</b> , 8, 986	5.8	36
128	Construction of arabinogalactans/selenium nanoparticles composites for enhancement of the antitumor activity. <i>International Journal of Biological Macromolecules</i> , <b>2019</b> , 128, 444-451	7.9	35
127	Enhanced enzymatic saccharification of corn stover by in situ modification of lignin with poly (ethylene glycol) ether during low temperature alkali pretreatment. <i>Bioresource Technology</i> , <b>2017</b> , 244, 92-99	11	35
126	Procuring biologically active galactomannans from spent coffee ground (SCG) by autohydrolysis and enzymatic hydrolysis. <i>International Journal of Biological Macromolecules</i> , <b>2020</b> , 149, 572-580	7.9	35
125	Removal of fermentation inhibitors from pre-hydrolysis liquor using polystyrene divinylbenzene resin. <i>Biotechnology for Biofuels</i> , <b>2020</b> , 13, 188	7.8	35

124	Understanding the effects of different residual lignin fractions in acid-pretreated bamboo residues on its enzymatic digestibility. <i>Biotechnology for Biofuels</i> , <b>2021</b> , 14, 143	7.8	35
123	Elucidation of structure-inhibition relationship of monosaccharides derived pseudo-lignin in enzymatic hydrolysis. <i>Industrial Crops and Products</i> , <b>2018</b> , 113, 368-375	5.9	34
122	Disparate roles of solvent extractable lignin and residual bulk lignin in enzymatic hydrolysis of pretreated sweetgum. <i>RSC Advances</i> , <b>2015</b> , 5, 97966-97974	3.7	33
121	Isolation and Identification of a Novel Anti-protein Aggregation Activity of Lignin-Carbohydrate Complex From Leaves. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2020</b> , 8, 573991	5.8	33
120	Minimizing inhibitors during pretreatment while maximizing sugar production in enzymatic hydrolysis through a two-stage hydrothermal pretreatment. <i>Cellulose</i> , <b>2015</b> , 22, 1253-1261	5.5	28
119	Lactic Acid Production from Pretreated Hydrolysates of Corn Stover by a Newly Developed <i>Bacillus coagulans</i> Strain. <i>PLoS ONE</i> , <b>2016</b> , 11, e0149101	3.7	28
118	Co-production of bio-ethanol, xylonic acid and slow-release nitrogen fertilizer from low-cost straw pulping solid residue. <i>Bioresource Technology</i> , <b>2018</b> , 250, 365-373	11	28
117	Melanin-Inspired Design: Preparing Sustainable Photothermal Materials from Lignin for Energy Generation. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 7600-7607	9.5	28
116	New strategy to elucidate the positive effects of extractable lignin on enzymatic hydrolysis by quartz crystal microbalance with dissipation. <i>Biotechnology for Biofuels</i> , <b>2019</b> , 12, 57	7.8	27
115	Natural surfactant-aided dilute sulfuric acid pretreatment of waste wheat straw to enhance enzymatic hydrolysis efficiency. <i>Bioresource Technology</i> , <b>2021</b> , 324, 124651	11	27
114	Associating cooking additives with sodium hydroxide to pretreat bamboo residues for improving the enzymatic saccharification and monosaccharides production. <i>Bioresource Technology</i> , <b>2015</b> , 193, 142-149	11	25
113	Characterization of arabinogalactans from <i>Larix principis-rupprechtii</i> and their effects on NO production by macrophages. <i>Carbohydrate Polymers</i> , <b>2018</b> , 200, 408-415	10.3	25
112	Green solvent pretreatment for enhanced production of sugars and antioxidative lignin from poplar. <i>Bioresource Technology</i> , <b>2021</b> , 321, 124471	11	25
111	Tuning the cellulose nanocrystal alignments for supramolecular assembly of chiral nematic films with highly efficient UVB shielding capability. <i>Journal of Materials Chemistry C</i> , <b>2020</b> , 8, 8493-8501	7.1	24
110	Bio-inspired nanocomposite by layer-by-layer coating of chitosan/hyaluronic acid multilayers on a hard nanocellulose-hydroxyapatite matrix. <i>Carbohydrate Polymers</i> , <b>2019</b> , 222, 115036	10.3	23
109	Comparative study on enzymatic digestibility of acid-pretreated poplar and larch based on a comprehensive analysis of the lignin-derived recalcitrance. <i>Bioresource Technology</i> , <b>2021</b> , 319, 124225	11	23
108	Synthesis and Characterization of Sucrose and Ammonium Dihydrogen Phosphate (SADP) Adhesive for Plywood. <i>Polymers</i> , <b>2019</b> , 11,	4.5	22
107	Further Exploration of Sucrose-Citric Acid Adhesive: Investigation of Optimal Hot-Pressing Conditions for Plywood and Curing Behavior. <i>Polymers</i> , <b>2019</b> , 11,	4.5	22

106	Preparing printable bacterial cellulose based gelatin gel to promote in vivo bone regeneration. <i>Carbohydrate Polymers</i> , <b>2021</b> , 270, 118342	10.3	22
105	An integrated process to produce prebiotic xylooligosaccharides by autohydrolysis, nanofiltration and endo-xylanase from alkali-extracted xylan. <i>Bioresource Technology</i> , <b>2020</b> , 314, 123685	11	21
104	Isolation, characterization and in vitro anticancer activity of an aqueous galactomannan from the seed of <i>Sesbania cannabina</i> . <i>International Journal of Biological Macromolecules</i> , <b>2018</b> , 113, 1241-1247	7.9	21
103	Increasing the Carbohydrate Output of Bamboo Using a Combinatorial Pretreatment. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> , 8, 7380-7393	8.3	20
102	Preparation of Graphene-Like Porous Carbons With Enhanced Thermal Conductivities From Lignin Nano-particles by Combining Hydrothermal Carbonization and Pyrolysis. <i>Frontiers in Energy Research</i> , <b>2020</b> , 8,	3.8	20
101	Understanding the relationship between the structural properties of lignin and their biological activities. <i>International Journal of Biological Macromolecules</i> , <b>2021</b> , 190, 291-300	7.9	20
100	A new magnesium bisulfite pretreatment (MBSP) development for bio-ethanol production from corn stover. <i>Bioresource Technology</i> , <b>2016</b> , 199, 188-193	11	19
99	Use of metal chlorides during waste wheat straw autohydrolysis to overcome the self-buffering effect. <i>Bioresource Technology</i> , <b>2018</b> , 268, 259-265	11	19
98	Titanium dioxide nanoparticle affects motor behavior, neurodevelopment and axonal growth in zebrafish ( <i>Danio rerio</i> ) larvae. <i>Science of the Total Environment</i> , <b>2021</b> , 754, 142315	10.2	19
97	Nacre-inspired hemicelluloses paper with fire retardant and gas barrier properties by self-assembly with bentonite nanosheets. <i>Carbohydrate Polymers</i> , <b>2019</b> , 225, 115219	10.3	18
96	Facilitating enzymatic digestibility of larch by in-situ lignin modification during combined acid and alkali pretreatment. <i>Bioresource Technology</i> , <b>2020</b> , 311, 123517	11	18
95	Effects of Sulfuric Acid on the Curing Behavior and Bonding Performance of Tannin?Sucrose Adhesive. <i>Polymers</i> , <b>2018</b> , 10,	4.5	18
94	Enhanced saccharification of SO <sub>2</sub> catalyzed steam-exploded corn stover by polyethylene glycol addition. <i>Biomass and Bioenergy</i> , <b>2011</b> , 35, 2053-2058	5.3	18
93	Relative fermentation of oligosaccharides from human milk and plants by gut microbes. <i>European Food Research and Technology</i> , <b>2017</b> , 243, 133-146	3.4	16
92	Humic acid-assisted autohydrolysis of waste wheat straw to sustainably improve enzymatic hydrolysis. <i>Bioresource Technology</i> , <b>2020</b> , 306, 123103	11	16
91	Fumaric Acid Production from Alkali-Pretreated Corncob by Fed-Batch Simultaneous Saccharification and Fermentation Combined with Separated Hydrolysis and Fermentation at High Solids Loading. <i>Applied Biochemistry and Biotechnology</i> , <b>2017</b> , 181, 573-583	3.2	16
90	Investigation of the effect of lignin/pseudo-lignin on enzymatic hydrolysis by Quartz Crystal Microbalance. <i>Industrial Crops and Products</i> , <b>2020</b> , 157, 112927	5.9	16
89	Water cast film formability of sugarcane bagasse xylans favored by side groups. <i>Cellulose</i> , <b>2020</b> , 27, 7307-7320	5.320	16

88	Selective aminolysis of acetylated lignin: Toward simultaneously improving thermal-oxidative stability and maintaining mechanical properties of polypropylene. <i>International Journal of Biological Macromolecules</i> , <b>2018</b> , 108, 775-781	7.9	16
87	Coproduction of Ethanol and Lignosulfonate From Moso Bamboo Residues by Fermentation and Sulfomethylation. <i>Waste and Biomass Valorization</i> , <b>2017</b> , 8, 965-974	3.2	15
86	Production of dissolving grade pulp from tobacco stalk through SO <sub>2</sub> -ethanol-water fractionation, alkaline extraction, and bleaching processes. <i>BioResources</i> , <b>2019</b> , 14, 5544-5558	1.3	15
85	Development of a novel polysaccharide-based iron oxide nanoparticle to prevent iron accumulation-related osteoporosis by scavenging reactive oxygen species. <i>International Journal of Biological Macromolecules</i> , <b>2020</b> , 165, 1634-1645	7.9	15
84	A covalently cross-linked hyaluronic acid/bacterial cellulose composite hydrogel for potential biological applications. <i>Carbohydrate Polymers</i> , <b>2021</b> , 252, 117123	10.3	15
83	Enhancing enzymatic digestibility of waste wheat straw by presoaking to reduce the ash-influencing effect on autohydrolysis. <i>Biotechnology for Biofuels</i> , <b>2019</b> , 12, 222	7.8	14
82	Sulfated modification of arabinogalactans from <i>Larix principis-rupprechtii</i> and their antitumor activities. <i>Carbohydrate Polymers</i> , <b>2019</b> , 215, 207-212	10.3	14
81	Sunlight-Driven Biomass Photorefinery for Coproduction of Sustainable Hydrogen and Value-Added Biochemicals. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> , 8, 15772-15781	8.3	14
80	Isolation of the Flavonoid from Bamboo Residues and Its Application as Metal Ion Sensor in Vitro. <i>Polymers</i> , <b>2019</b> , 11,	4.5	13
79	Highly efficient production of D-lactic acid from chicory-derived inulin by <i>Lactobacillus bulgaricus</i> . <i>Bioprocess and Biosystems Engineering</i> , <b>2016</b> , 39, 1749-57	3.7	13
78	A One-Step Method for the Simultaneous Determination of Five Wood Monosaccharides and the Corresponding Aldonic Acids in Fermentation Broth Using High-Performance Anion-Exchange Chromatography Coupled with a Pulsed Amperometric Detector. <i>Journal of Wood Chemistry and Technology</i> , <b>2014</b> , 34, 67-76	2	13
77	Advances in Biosensing and Environmental Monitoring Based on Electrospun Nanofibers. <i>Advanced Fiber Materials</i> , <b>2022</b> , 4, 404-435	10.9	13
76	Unlocking the secret of lignin-enzyme interactions: Recent advances in developing state-of-the-art analytical techniques. <i>Biotechnology Advances</i> , <b>2021</b> , 107830	17.8	13
75	Synergistic effects of hydrothermal and deep eutectic solvent pretreatment on co-production of xylo-oligosaccharides and enzymatic hydrolysis of poplar. <i>Bioresource Technology</i> , <b>2021</b> , 341, 125787	11	13
74	The effects of exogenous ash on the autohydrolysis and enzymatic hydrolysis of wheat straw. <i>Bioresource Technology</i> , <b>2019</b> , 286, 121411	11	12
73	Biomimetic galactomannan/bentonite/graphene oxide film with superior mechanical and fire retardant properties by borate cross-linking. <i>Carbohydrate Polymers</i> , <b>2020</b> , 245, 116508	10.3	12
72	Promoting enzymatic hydrolysis of aggregated bamboo crystalline cellulose by fast microwave-assisted dicarboxylic acid deep eutectic solvents pretreatments. <i>Bioresource Technology</i> , <b>2021</b> , 333, 125122	11	12
71	Incorporating Lignin into Polyethylene Glycol Enhanced Its Performance for Promoting Enzymatic Hydrolysis of Hardwood. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> , 8, 1797-1804	8.3	11

70	Efficient bioconversion of oleuropein from olive leaf extract to antioxidant hydroxytyrosol by enzymatic hydrolysis and high-temperature degradation. <i>Biotechnology and Applied Biochemistry</i> , <b>2018</b> , 65, 680-689	2.8	11
69	Oxygen plasma-treated enzymatic hydrolysis lignin as a natural binder for manufacturing biocomposites. <i>Holzforschung</i> , <b>2011</b> , 65, 829-833	2	11
68	The Application of Polysaccharides and Their Derivatives in Pigment, Barrier, and Functional Paper Coatings. <i>Polymers</i> , <b>2020</b> , 12,	4.5	11
67	Unveiling the structural properties of water-soluble lignin from gramineous biomass by autohydrolysis and its functionality as a bioactivator (anti-inflammatory and antioxidative). <i>International Journal of Biological Macromolecules</i> , <b>2021</b> , 191, 1087-1095	7.9	11
66	Difference analysis of the enzymatic hydrolysis performance of acid-catalyzed steam-exploded corn stover before and after washing with water. <i>Bioprocess and Biosystems Engineering</i> , <b>2016</b> , 39, 1619-26	3.7	10
65	An improved process of ethanol production from hemicellulose: bioconversion of undetoxified hemicellulosic hydrolyzate from steam-exploded corn stover with a domesticated <i>Pichia stipitis</i> . <i>Applied Biochemistry and Biotechnology</i> , <b>2012</b> , 167, 2330-40	3.2	10
64	Arabinogalactans from <i>Larix principis-rupprechtii</i> : An investigation into the structure-function contribution of side-chain structures. <i>Carbohydrate Polymers</i> , <b>2020</b> , 227, 115354	10.3	9
63	Continuous Bioconversion of Oleuropein from Olive Leaf Extract to Produce the Bioactive Product Hydroxytyrosol Using Carrier-Immobilized Enzyme. <i>Applied Biochemistry and Biotechnology</i> , <b>2020</b> , 190, 148-165	3.2	9
62	Ultra-strong hydroxypropyl cellulose/polyvinyl alcohol composite hydrogel by combination of triple-network and mechanical training. <i>International Journal of Biological Macromolecules</i> , <b>2021</b> , 184, 200-208	7.9	9
61	Antiviral/antibacterial biodegradable cellulose nonwovens as environmentally friendly and bioprotective materials with potential to minimize microplastic pollution. <i>Journal of Hazardous Materials</i> , <b>2022</b> , 424, 127391	12.8	9
60	Synthesis and Characterization of an Antioxidative Galactomannan-Iron(III) Complex from Seed. <i>Polymers</i> , <b>2018</b> , 11,	4.5	8
59	Investigation of Synthesis Mechanism, Optimal Hot-Pressing Conditions, and Curing Behavior of Sucrose and Ammonium Dihydrogen Phosphate Adhesive. <i>Polymers</i> , <b>2020</b> , 12,	4.5	8
58	Effects of Mannan oligosaccharide supplementation on the growth performance, immunity, and oxidative status of Partridge Shank Chickens. <i>Animals</i> , <b>2019</b> , 9,	3.1	8
57	Hypolipidemic activities of partially deacetylated chitin nanofibers/nanowhiskers in mice. <i>Food and Nutrition Research</i> , <b>2018</b> , 62,	3.1	8
56	A facile quantitative characterization method of incomplete degradation products of galactomannan by ethanol fractional precipitation. <i>Carbohydrate Polymers</i> , <b>2020</b> , 250, 116951	10.3	8
55	High efficiency and clean separation of eucalyptus components by glycolic acid pretreatment. <i>Bioresource Technology</i> , <b>2021</b> , 341, 125757	11	8
54	Promoting enzymatic saccharification of organosolv-pretreated poplar sawdust by saponin-rich tea seed waste. <i>Bioprocess and Biosystems Engineering</i> , <b>2020</b> , 43, 1999-2007	3.7	7
53	A novel cold-adapted esterase from <i>Enterobacter cloacae</i> : Characterization and improvement of its activity and thermostability via the site of Tyr193Cys. <i>Microbial Cell Factories</i> , <b>2018</b> , 17, 45	6.4	7

52	Relations Between Moso Bamboo Surface Properties Pretreated by Kraft Cooking and Dilute Acid with Enzymatic Digestibility. <i>Applied Biochemistry and Biotechnology</i> , <b>2017</b> , 183, 1526-1538	3.2	7
51	Fungal chitosan production using xylose rich of corn stover prehydrolysate by <i>Rhizopus oryzae</i> . <i>Biotechnology and Biotechnological Equipment</i> , <b>2017</b> , 31, 1160-1166	1.6	7
50	Utilization of enzymatic hydrolysate from corn stover as a precursor to synthesize an eco-friendly adhesive for plywood II: investigation of appropriate manufacturing conditions, curing behavior, and adhesion mechanism. <i>Journal of Wood Science</i> , <b>2020</b> , 66,	2.4	7
49	Improving the enzymatic hydrolysis of larch by coupling water pre-extraction with alkaline hydrogen peroxide post-treatment and adding enzyme cocktail. <i>Bioresource Technology</i> , <b>2019</b> , 285, 121322	11	6
48	Synthesis and application of an environmental epoxy plasticizer with phthalate-like structure based on tung oil and cardanol for poly(vinyl chloride). <i>Journal of Applied Polymer Science</i> , <b>2021</b> , 138, 50809	2.9	6
47	Preparation of Lignin-Based Magnetic Adsorbent From Kraft Lignin for Adsorbing the Congo Red. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2021</b> , 9, 691528	5.8	6
46	Insight in the Recent Application of Polyphenols From Biomass. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2021</b> , 9, 753898	5.8	6
45	Efficient production of xylooligosaccharides rich in xylobiose and xylotriose from poplar by hydrothermal pretreatment coupled with post-enzymatic hydrolysis. <i>Bioresource Technology</i> , <b>2021</b> , 342, 125955	11	6
44	A systematic comparison of neurotoxicity of bisphenol A and its derivatives in zebrafish. <i>Science of the Total Environment</i> , <b>2022</b> , 805, 150210	10.2	6
43	Extractive bioconversion of xylan for production of xylobiose and xylotriose using a PEG6000/sodium citrate aqueous two-phase system. <i>Korean Journal of Chemical Engineering</i> , <b>2011</b> , 28, 1897-1901	2.8	5
42	Effects of seleno-Sesbania canabina galactomannan on anti-oxidative and immune function of macrophage. <i>Carbohydrate Polymers</i> , <b>2021</b> , 261, 117833	10.3	5
41	Fabrication of anti-bacterial, hydrophobic and UV resistant galactomannan-zinc oxide nanocomposite films. <i>Polymer</i> , <b>2021</b> , 215, 123412	3.9	5
40	All-natural and biocompatible cellulose nanocrystals films with tunable supramolecular structure. <i>International Journal of Biological Macromolecules</i> , <b>2021</b> ,	7.9	4
39	Actuating, shape reconstruction, and reinforcement of galactomannan-based hydrogels by coordination bonds induced metal ions capture. <i>International Journal of Biological Macromolecules</i> , <b>2020</b> , 165, 2721-2730	7.9	4
38	Comprehensive understanding of the effects of metallic cations on enzymatic hydrolysis of humic acid-pretreated waste wheat straw. <i>Biotechnology for Biofuels</i> , <b>2021</b> , 14, 25	7.8	4
37	Efficient separation of bagasse lignin by freeze-thaw-assisted p-toluenesulfonic acid pretreatment.. <i>Bioresource Technology</i> , <b>2022</b> , 351, 126951	11	4
36	Quantitative lipidomic insights in the inhibitory response of <i>Pichia stipitis</i> to vanillin, 5-hydroxymethylfurfural, and acetic acid. <i>Biochemical and Biophysical Research Communications</i> , <b>2018</b> , 497, 7-12	3.4	3
35	Production of a <i>Trichoderma reesei</i> QM9414 xylanase in <i>Pichia pastoris</i> and its application in biobleaching of wheat straw pulp. <i>World Journal of Microbiology and Biotechnology</i> , <b>2011</b> , 27, 751-758	4.4	3



34	Dilute Sulfuric Acid Pretreatment and Enzymatic Hydrolysis of Corn Stover into Fermentable Sugars. <i>Advanced Materials Research</i> , <b>2012</b> , 535-537, 2462-2468	0.5	3
33	Co-production of xylooligosaccharides and glucose from birch sawdust by hot water pretreatment and enzymatic hydrolysis.. <i>Bioresource Technology</i> , <b>2022</b> , 348, 126795	11	3
32	Fabrication of hydrophobic and high-strength packaging films based on the esterification modification of galactomannan. <i>International Journal of Biological Macromolecules</i> , <b>2021</b> , 167, 1221-1229	7.9	3
31	TEMPO-oxidized nanochitin based hydrogels and inter-structure tunable cryogels prepared by sequential chemical and physical crosslinking. <i>Carbohydrate Polymers</i> , <b>2021</b> , 272, 118495	10.3	3
30	A structure-activity understanding of the interaction between lignin and various cellulase domains.. <i>Bioresource Technology</i> , <b>2022</b> , 127042	11	3
29	Regular enzyme recovery enhances cellulase production by <i>Trichoderma reesei</i> in fed-batch culture. <i>Biotechnology Letters</i> , <b>2017</b> , 39, 1493-1498	3	2
28	Valorization of Chinese hickory shell as novel sources for the efficient production of xylooligosaccharides. <i>Biotechnology for Biofuels</i> , <b>2021</b> , 14, 226	7.8	2
27	Protective Effects of Lignin-Carbohydrate Complexes from Wheat Stalk against Bisphenol a Neurotoxicity in Zebrafish via Oxidative Stress. <i>Antioxidants</i> , <b>2021</b> , 10,	7.1	2
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22	Bioinspired manufacturing of oriented polysaccharides scaffolds for strong, optical haze and anti-UV/bacterial membranes. <i>Carbohydrate Polymers</i> , <b>2021</b> , 270, 118328	10.3	2
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19	In-situ lignin modification with polyethylene glycol-epoxides to boost enzymatic hydrolysis of combined-pretreated masson pine. <i>Bioresource Technology</i> , <b>2022</b> , 344, 126315	11	1
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17	Unrevealing model compounds of soil conditioners impacts on the wheat straw autohydrolysis efficiency and enzymatic hydrolysis. <i>Biotechnology for Biofuels</i> , <b>2020</b> , 13, 122	7.8	1

16	Preparation of di- and tri- galacturonic acid by coupling hydrothermal pretreatment and enzymatic hydrolysis. <i>Process Biochemistry</i> , <b>2021</b> , 102, 180-185	4.8	1
15	Synthesis of cationic bacterial cellulose using a templated metal phenolic network for antibacterial applications. <i>Cellulose</i> , <b>2021</b> , 28, 9283-9296	5.5	1
14	Revealing the influence of metallic chlorides pretreatment on chemical structures of lignin and enzymatic hydrolysis of waste wheat straw. <i>Bioresource Technology</i> , <b>2021</b> , 342, 125983	11	1
13	The immunomodulatory activity of degradation products of <i>Sesbania cannabina</i> galactomannan with different molecular weights.. <i>International Journal of Biological Macromolecules</i> , <b>2022</b> ,	7.9	1
12	Lignin fractionation to realize the comprehensive elucidation of structure-inhibition relationship of lignins in enzymatic hydrolysis.. <i>Bioresource Technology</i> , <b>2022</b> , 355, 127255	11	1
11	Sustainable lignin and lignin-derived compounds as potential therapeutic agents for degenerative orthopaedic diseases: A systemic review. <i>International Journal of Biological Macromolecules</i> , <b>2022</b> , 212, 547-560	7.9	1
10	Facile adjustment on cellulose nanocrystals composite films with glycerol and benzyl acrylate copolymer for enhanced UV shielding property.. <i>International Journal of Biological Macromolecules</i> , <b>2022</b> , 204, 41-41	7.9	0
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