

# Chenhuan

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

65  
papers

1,194  
citations

21  
h-index

33  
g-index

72  
ext. papers

1,725  
ext. citations

8.1  
avg. IF

5.18  
L-index

#	Paper	IF	Citations
65	Co-production of amino acid-rich xylooligosaccharide and single-cell protein from paper mulberry by autohydrolysis and fermentation technologies. <b>2022</b> , 15, 1		1
64	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
63	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
62	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
61	Using One-pot Fermentation Technology to Prepare Enzyme Cocktail to Sustainably Produce Low Molecular Weight Galactomannans from Sesbania cannabina Seeds.. <i>Applied Biochemistry and Biotechnology</i> , <b>2022</b> , 1	3.2	
60	The immunomodulatory activity of degradation products of Sesbania cannabina galactomannan with different molecular weights.. <i>International Journal of Biological Macromolecules</i> , <b>2022</b> ,	7.9	1
59	A structure-activity understanding of the interaction between lignin and various cellulase domains.. <i>Bioresource Technology</i> , <b>2022</b> , 127042	11	3
58	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
57	Critical Review of Solidification of Sandy Soil by Microbially Induced Carbonate Precipitation (MICP). <i>Crystals</i> , <b>2021</b> , 11, 1439	2.3	2
56	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
55	The and Antioxidant and Immunomodulatory Activity of Incomplete Degradation Products of Hemicellulosic Polysaccharide (Galactomannan) From. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2021</b> , 9, 679558	5.8	2
54	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
53	The key role of delignification in overcoming the inherent recalcitrance of Chinese fir for biorefining. <i>Bioresource Technology</i> , <b>2021</b> , 319, 124154	11	6
52	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
51	Green solvent pretreatment for enhanced production of sugars and antioxidative lignin from poplar. <i>Bioresource Technology</i> , <b>2021</b> , 321, 124471	11	25
50	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
49	The Increase of Incomplete Degradation Products of Galactomannan Production by Synergetic Hydrolysis of $\beta$ Mannanase and $\beta$ Galactosidase. <i>Applied Biochemistry and Biotechnology</i> , <b>2021</b> , 193, 405-416	3.2	2

48	Dietary Mannan oligosaccharide supplementation improves growth performance, intestinal integrity, serum immunity, and antioxidant capacity of Partridge Shank Chickens. <i>Journal of Poultry Science</i> , <b>2021</b> , 58, 147-153	1.6	
47	Production performance, egg quality, plasma biochemical constituents and lipid metabolites of aged laying hens supplemented with incomplete degradation products of galactomannan. <i>Poultry Science</i> , <b>2021</b> , 100, 101296	3.9	2
46	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
45	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
44	A method for quantitative characterization of incomplete degradation products of polygalacturonic acid. <i>International Journal of Biological Macromolecules</i> , <b>2021</b> , 188, 343-349	7.9	0
43	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
42	Effects of the Hofmeister anion series salts on the rheological properties of Sesbania cannabina galactomannan. <i>International Journal of Biological Macromolecules</i> , <b>2021</b> , 188, 350-358	7.9	
41	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
40	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
39	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
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	Progress in Preparation of Cellulase from Lignocellulose Using Fungi. <i>Biotechnology and Bioprocess Engineering</i> , <b>2021</b> , 26, 871-886	3.1	1
36	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
35	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
34	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
33	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
32	Humic acid-assisted autohydrolysis of waste wheat straw to sustainably improve enzymatic hydrolysis. <i>Bioresource Technology</i> , <b>2020</b> , 306, 123103	11	16
31	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

30	Organosolv lignin properties and their effects on enzymatic hydrolysis. <i>BioResources</i> , <b>2020</b> , 15, 8909-8924	3.3	1
29	Novel approach to produce biomass-derived oligosaccharides simultaneously by recombinant endoglucanase from <i>Trichoderma reesei</i> . <i>Enzyme and Microbial Technology</i> , <b>2020</b> , 134, 109481	3.8	0
28	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
27	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
26	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
25	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
24	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
23	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
22	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
21	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
20	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
19	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
18	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
17	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
16	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
15	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
14	Synergistic effects of pH and organosolv lignin addition on the enzymatic hydrolysis of organosolv-pretreated loblolly pine.. <i>RSC Advances</i> , <b>2018</b> , 8, 13835-13841	3.7	12
13	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

12	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
11	Co-production of bio-ethanol, xylic 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
10	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
9	Lignin Alkylation Enhances Enzymatic Hydrolysis of Lignocellulosic Biomass. <i>Energy &amp; Fuels</i> , <b>2017</b> , 31, 12317-12326	4.1	42
8	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
7	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
6	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
5	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
4	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
3	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
2	Contrasting effects of hardwood and softwood organosolv lignins on enzymatic hydrolysis of lignocellulose. <i>Bioresource Technology</i> , <b>2014</b> , 163, 320-7	11	62
1	Remarkable solvent and extractable lignin effects on enzymatic digestibility of organosolv pretreated hardwood. <i>Bioresource Technology</i> , <b>2014</b> , 156, 92-9	11	53