Feng Peng

List of Publications by Year in descending order

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91828 101496 5,470 119 36 69 h-index citations g-index papers 120 120 120 7257 docs citations times ranked citing authors all docs

#	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	Fractional purification and bioconversion of hemicelluloses. Biotechnology Advances, 2012, 30, 879-903.	6.0	338
3	Comparative Study of Hemicelluloses Obtained by Graded Ethanol Precipitation from Sugarcane Bagasse. Journal of Agricultural and Food Chemistry, 2009, 57, 6305-6317.	2.4	312
4	High Strength Hemicellulose-Based Nanocomposite Film for Food Packaging Applications. ACS Sustainable Chemistry and Engineering, 2016, 4, 1985-1993.	3.2	145
5	Carboxymethylation of hemicelluloses isolated from sugarcane bagasse. Polymer Degradation and Stability, 2008, 93, 786-793.	2.7	131
6	Structural features and antioxidant activity of xylooligosaccharides enzymatically produced from sugarcane bagasse. Bioresource Technology, 2013, 127, 236-241.	4.8	127
7	High strength of hemicelluloses based hydrogels by freeze/thaw technique. Carbohydrate Polymers, 2014, 101, 272-280.	5.1	126
8	Studies on the Starch and Hemicelluloses Fractionated by Graded Ethanol Precipitation from Bamboo <i>Phyllostachys bambusoides</i> f. shouzhu Yi. Journal of Agricultural and Food Chemistry, 2011, 59, 2680-2688.	2.4	102
9	Catalytic hydrothermal pretreatment of corncob into xylose and furfural via solid acid catalyst. Bioresource Technology, 2014, 158, 313-320.	4.8	101
10	Fractional Study of Alkali-Soluble Hemicelluloses Obtained by Graded Ethanol Precipitation from Sugar Cane Bagasse. Journal of Agricultural and Food Chemistry, 2010, 58, 1768-1776.	2.4	91
11	Microwave-assisted acid hydrolysis to produce xylooligosaccharides from sugarcane bagasse hemicelluloses. Food Chemistry, 2014, 156, 7-13.	4.2	87
12	Isolation and structural characterization of hemicelluloses from the bamboo species Phyllostachys incarnata Wen. Carbohydrate Polymers, 2011, 86, 883-890.	5.1	85
13	Hydrothermal synthesis and applications of advanced carbonaceous materials from biomass: a review. Advanced Composites and Hybrid Materials, 2020, 3, 267-284.	9.9	83
14	Effects of hydrothermal pretreatment on the dissolution and structural evolution of hemicelluloses and lignin: A review. Carbohydrate Polymers, 2022, 281, 119050.	5.1	81
15	Choline chloride-lactic acid deep eutectic solvent for delignification and nanocellulose production of moso bamboo. Cellulose, 2019, 26, 9447-9462.	2.4	79
16	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
17	Natural Polymer <i>Eucommia Ulmoides</i> Rubber: A Novel Material. Journal of Agricultural and Food Chemistry, 2021, 69, 3797-3821.	2.4	70
18	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

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19	TiO2-containing PVA/xylan composite films with enhanced mechanical properties, high hydrophobicity and UV shielding performance. Cellulose, 2015, 22, 593-602.	2.4	69
20	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
21	Hemicellulose from Plant Biomass in Medical and Pharmaceutical Application: A Critical Review. Current Medicinal Chemistry, 2019, 26, 2430-2455.	1.2	60
22	Fractionation of Alkali-Solubilized Hemicelluloses from Delignified <i>Populus gansuensis</i> Structure and Properties. Journal of Agricultural and Food Chemistry, 2010, 58, 5743-5750.	2.4	51
23	Effect of structural characteristics of corncob hemicelluloses fractionated by graded ethanol precipitation on furfural production. Carbohydrate Polymers, 2016, 136, 203-209.	5.1	50
24	Fabrication of strong nanocomposite films with renewable forestry waste/montmorillonite/reduction of graphene oxide for fire retardant. Chemical Engineering Journal, 2018, 337, 436-445.	6.6	49
25	Fractional isolation and structural characterization of hemicelluloses from Caragana korshinskii. Carbohydrate Polymers, 2010, 80, 753-760.	5.1	47
26	Ultrafast fabrication of organohydrogels with UV-blocking, anti-freezing, anti-drying, and skin epidermal sensing properties using lignin–Cu ²⁺ plant catechol chemistry. Journal of Materials Chemistry A, 2021, 9, 14381-14391.	5.2	45
27	Hemicelluloses-based magnetic aerogel as an efficient adsorbent for Congo red. International Journal of Biological Macromolecules, 2020, 155, 369-375.	3.6	44
28	Biphasic 2-methyltetrahydrofuran/oxalic acid/water pretreatment to enhance cellulose enzymatic hydrolysis and lignin valorization. Bioresource Technology, 2017, 243, 1105-1111.	4.8	43
29	Solvent effect on xylose conversion under catalyst-free conditions: insights from molecular dynamics simulation and experiments. Green Chemistry, 2020, 22, 532-539.	4.6	43
30	Organic–Inorganic Composite Films Based on Modified Hemicelluloses with Clay Nanoplatelets. ACS Sustainable Chemistry and Engineering, 2014, 2, 1811-1818.	3.2	42
31	Fabrication of Biopolymer Hydrogel Containing Ag Nanoparticles for Antibacterial Property. Industrial & Engineering Chemistry Research, 2015, 54, 7393-7400.	1.8	42
32	Facile approach to prepare drug-loading film from hemicelluloses and chitosan. Carbohydrate Polymers, 2016, 153, 542-548.	5.1	42
33	Separation and Characterization of Acetyl and Non-Acetyl Hemicelluloses of Arundo donax by Ammonium Sulfate Precipitation. Journal of Agricultural and Food Chemistry, 2012, 60, 4039-4047.	2.4	41
34	Solvent effect on xylose-to-furfural reaction in biphasic systems: combined experiments with theoretical calculations. Green Chemistry, 2021, 23, 8510-8518.	4.6	41
35	Hydrothermal pretreatment for the production of oligosaccharides: A review. Bioresource Technology, 2022, 343, 126075.	4.8	40
36	Nanoreinforced hemicellulose-based hydrogels prepared by freeze–thaw treatment. Cellulose, 2014, 21, 1709-1721.	2.4	39

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37	Synthesis and properties of hemicelluloses-based semi-IPN hydrogels. International Journal of Biological Macromolecules, 2014, 65, 564-572.	3.6	39
38	Fabrication of antimicrobial composite films based on xylan from pulping process for food packaging. International Journal of Biological Macromolecules, 2019, 134, 122-130.	3.6	37
39	Structure and distribution changes of Eucalyptus hemicelluloses during hydrothermal and alkaline pretreatments. International Journal of Biological Macromolecules, 2019, 133, 514-521.	3.6	36
40	Anti-freezing, water-retaining, conductive, and strain-sensitive hemicellulose/polypyrrole composite hydrogels for flexible sensors. Journal of Materials Research and Technology, 2021, 14, 555-566.	2.6	34
41	Binding cellulose and chitosan via click chemistry: Synthesis, characterization, and formation of some hollow tubes. Journal of Polymer Science Part A, 2012, 50, 5201-5210.	2.5	33
42	Xylan-based hydrogels for potential skin care application. International Journal of Biological Macromolecules, 2020, 158, 244-250.	3.6	32
43	Alkaline deep eutectic solvents as novel and effective pretreatment media for hemicellulose dissociation and enzymatic hydrolysis enhancement. International Journal of Biological Macromolecules, 2021, 193, 1610-1616.	3.6	32
44	NMR and ESI–MS spectrometry characterization of autohydrolysis xylo-oligosaccharides separated by gel permeation chromatography. Carbohydrate Polymers, 2018, 195, 303-310.	5.1	31
45	Influence of urea and glycerol on functional properties of biodegradable PVA/xylan composite films. Cellulose, 2014, 21, 495-505.	2.4	30
46	Comparative investigation on bio-oil production from eucalyptus via liquefaction in subcritical water and supercritical ethanol. Industrial Crops and Products, 2019, 140, 111695.	2.5	30
47	Hemicelluloses/montmorillonite hybrid films with improved mechanical and barrier properties. Scientific Reports, 2015, 5, 16405.	1.6	29
48	Conversion of poplar into bio-oil via subcritical hydrothermal liquefaction: Structure and antioxidant capacity. Bioresource Technology, 2018, 270, 216-222.	4.8	29
49	Preparation of organic acid lignin submicrometer particle as a natural broad-spectrum photo-protection agent. International Journal of Biological Macromolecules, 2019, 132, 836-843.	3.6	29
50	A novel lignin-based hierarchical porous carbon for efficient and selective removal of Cr(VI) from wastewater. International Journal of Biological Macromolecules, 2022, 204, 310-320.	3.6	29
51	Corncob lignocellulose for the production of furfural by hydrothermal pretreatment and heterogeneous catalytic process. RSC Advances, 2015, 5, 60264-60272.	1.7	28
52	Structural characterization of hemicelluloses and topochemical changes in Eucalyptus cell wall during alkali ethanol treatment. Carbohydrate Polymers, 2015, 123, 17-26.	5.1	26
53	Preparation and Characterization of Blended Films from Quaternized Hemicelluloses and Carboxymethyl Cellulose. Materials, 2016, 9, 4.	1.3	26
54	Enhanced mechanical performance of biocompatible hemicelluloses-based hydrogel via chain extension. Scientific Reports, 2016, 6, 33603.	1.6	26

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55	Dialdehyde xylan-based sustainable, stable, and catalytic liquid metal nano-inks. Green Chemistry, 2021, 23, 7796-7804.	4.6	26
56	Rapid fabrication of xylan-based hydrogel by graft polymerization via a dynamic lignin-Fe3+ plant catechol system. Carbohydrate Polymers, 2021, 269, 118306.	5.1	25
57	Benzoxazine enhanced amino cellulose-based composite films: Preparation, proposed mechanism, and improved performance. Carbohydrate Polymers, 2019, 222, 115008.	5.1	24
58	Mussel-inspired adhesive hydrogels based on biomass-derived xylan and tannic acid cross-linked with acrylic acid with antioxidant and antibacterial properties. Journal of Materials Science, 2021, 56, 14729-14740.	1.7	24
59	Rapid homogeneous lauroylation of wheat straw hemicelluloses under mild conditions. Carbohydrate Research, 2008, 343, 2956-2962.	1.1	23
60	Syntheses of xylan stearate nanoparticles with loading function from by-products of viscose fiber mills. Cellulose, 2019, 26, 7195-7206.	2.4	23
61	Separation and Structural Characterization of Lignin from Hybrid Poplar Based on Complete Dissolution in DMSO/LiCl. Separation Science and Technology, 2010, 45, 2497-2506.	1.3	22
62	Synthesis of Acylated Xylan-Based Magnetic Fe3O4 Hydrogels and Their Application for H2O2 Detection. Materials, 2016, 9, 690.	1.3	22
63	Variations of lignin–lignin and lignin–carbohydrate linkages from young Neosinocalamus affinis bamboo culms. RSC Advances, 2016, 6, 15478-15484.	1.7	21
64	A ternary MnO ₂ -deposited RGO/lignin-based porous carbon composite electrode for flexible supercapacitor applications. New Journal of Chemistry, 2019, 43, 14084-14092.	1.4	21
65	Chemicals from Hemicelluloses: A Review. ACS Symposium Series, 2011, , 219-259.	0.5	20
66	Fractionation of bamboo hemicelluloses by graded saturated ammonium sulphate. Carbohydrate Polymers, 2015, 129, 201-207.	5.1	20
67	A non-covalent strategy for montmorillonite/xylose self-healing hydrogels. RSC Advances, 2015, 5, 41006-41012.	1.7	20
68	Changes of Chemical Composition and Hemicelluloses Structure in Differently Aged Bamboo (<i>Neosinocalamus affinis</i>) Culms. Journal of Agricultural and Food Chemistry, 2018, 66, 9199-9208.	2.4	20
69	Tetrahydro-2-furanmethanol pretreatment of eucalyptus to enhance cellulose enzymatic hydrolysis and to produce high-quality lignin. Bioresource Technology, 2019, 280, 489-492.	4.8	20
70	Molybdenum-catalyzed hydrogenolysis of herbaceous biomass: A procedure integrated lignin fragmentation and components fractionation. Bioresource Technology, 2021, 333, 124977.	4.8	20
71	Efficient catalytic conversion of dilute-oxalic acid pretreated bagasse hydrolysate to furfural using recyclable ironic phosphates catalysts. Bioresource Technology, 2019, 290, 121764.	4.8	19
72	Green and cost-effective synthesis of flexible, highly conductive cellulose nanofiber/reduced graphene oxide composite film with deep eutectic solvent. Carbohydrate Polymers, 2021, 272, 118514.	5.1	19

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73	Novel, recyclable BrÃ,nsted acidic deep eutectic solvent for mild fractionation of hemicelluloses. Carbohydrate Polymers, 2022, 278, 118992.	5.1	19
74	Efficient fractionation of woody biomass hemicelluloses using cholinium amino acids-based deep eutectic solvents and their aqueous mixtures. Bioresource Technology, 2022, 354, 127139.	4.8	19
75	Scalable, strong and water-stable wood-derived bioplastic. Chemical Engineering Journal, 2022, 439, 135680.	6.6	19
76	Preparation of Ag-sensitized ZnO and its photocatalytic performance under simulated solar light. Korean Journal of Chemical Engineering, 2007, 24, 1022-1026.	1.2	18
77	Subcritical liquefaction of lignocellulose for the production of bio-oils in ethanol/water system. Renewable Energy, 2019, 136, 865-872.	4.3	18
78	Fast and simple construction of composite films with renewable Eucommia ulmoides gum and Poly(ε-caprolactone). Composites Science and Technology, 2019, 179, 145-151.	3.8	18
79	Organic/Inorganic Superabsorbent Hydrogels Based on Xylan and Montmorillonite. Journal of Nanomaterials, 2014, 2014, 1-11.	1.5	17
80	Biocatalytic Feedbackâ€Controlled Nonâ€Newtonian Fluids. Angewandte Chemie - International Edition, 2020, 59, 4314-4319.	7.2	17
81	Dynamic Macro- and Microgels Driven by Adenosine Triphosphate-Fueled Competitive Host–Guest Interaction. CCS Chemistry, 2022, 4, 838-846.	4.6	17
82	Preparation and characterization of hemicellulosic derivatives containing carbamoylethyl and carboxyethyl groups. Carbohydrate Research, 2008, 343, 2776-2782.	1.1	16
83	A comparative study of bamboo (Phyllostachys incarnata Wen) milled wood lignin and the successively alkali-fractionated lignins. Wood Science and Technology, 2012, 46, 871-885.	1.4	16
84	Fabrication of flexible composite film based on xylan from pulping process for packaging application. International Journal of Biological Macromolecules, 2021, 173, 285-292.	3.6	16
85	CO ₂ -switchable non-Newtonian fluids. Green Chemistry, 2020, 22, 3784-3790.	4.6	15
86	Preparation of Lignocellulose-Based Activated Carbon Paper as a Manganese Dioxide Carrier for Adsorption and in-situ Catalytic Degradation of Formaldehyde. Frontiers in Chemistry, 2019, 7, 808.	1.8	14
87	Enhanced mechanical performance of xylan-based composite hydrogel via chain extension and semi-interpenetrating networks. Cellulose, 2020, 27, 4407-4416.	2.4	14
88	Constructing a Novel Xylan-Based Film with Flexibility, Transparency, and High Strength. Biomacromolecules, 2021, 22, 3810-3818.	2.6	14
89	Chemicalâ€Fuelâ€Driven Assembly in Macromolecular Science: Recent Advances and Challenges. ChemPlusChem, 2020, 85, 1190-1199.	1.3	13
90	Chemical composition and structural feature of <i>Populus gansuensis</i> hemicellulosic polymers. Journal of Applied Polymer Science, 2012, 124, 3154-3164.	1.3	12

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91	Synthesis of hemicellulose hydrogels with tunable conductivity and swelling behavior through facile one-pot reaction. International Journal of Biological Macromolecules, 2020, 154, 1528-1536.	3.6	10
92	Composite Film Based on Pulping Industry Waste and Chitosan for Food Packaging. Materials, 2018, 11, 2264.	1.3	9
93	Rapid Processing of Holocellulose-Based Nanopaper toward an Electrode Material. ACS Sustainable Chemistry and Engineering, 2021, 9, 3337-3346.	3.2	9
94	Comparison of structure, thermal stability, and pyrolysis products of lignin extracted with ChCl-formic acid/lactic acid systems. Journal of Materials Research and Technology, 2021, 14, 841-850.	2.6	9
95	Biocatalytic Feedbackâ€Controlled Nonâ€Newtonian Fluids. Angewandte Chemie, 2020, 132, 4344-4349.	1.6	8
96	Physicochemical Properties and Skin Protection Activities of Polysaccharides from <i>Usnea longissima</i> by Graded Ethanol Precipitation. ACS Omega, 2021, 6, 25010-25018.	1.6	8
97	Rapid Carboxymethylation of Xylan-Rich Hemicelluloses by Microwave Irradiation. Advanced Materials Research, 2011, 236-238, 292-296.	0.3	7
98	Comparison of emulsifying capacity of two hemicelluloses from moso bamboo in soy oil-in-water emulsions. RSC Advances, 2020, 10, 4657-4663.	1.7	7
99	Flexible conductive gasket based on Eucommia ulmoides gum and carbon fillers. Industrial Crops and Products, 2022, 176, 114347.	2.5	7
100	Highly antibacterial hydrogels prepared from amino cellulose, dialdehyde xylan, and Ag nanoparticles by a green reduction method. Cellulose, 2022, 29, 1055-1067.	2.4	7
101	Turning Wood Autohydrolysate Directly into Food Packing Composite Films with Good Toughness. International Journal of Polymer Science, 2018, 2018, 1-8.	1.2	6
102	Acetone fractionation of heterogeneous tetrahydrofurfuryl alcohol lignin to improve its homogeneity and functionality. Journal of Materials Research and Technology, 2021, 10, 632-642.	2.6	6
103	Lignin/Xylanâ€Based Phase Selective Powder Gelator for Ecoâ€Friendly Oil Spill Treatment. Advanced Sustainable Systems, 2021, 5, 2100229.	2.7	6
104	Facile synthesis of high strength hot-water wood extract films with oxygen-barrier performance. Scientific Reports, 2017, 7, 41075.	1.6	5
105	Fractionation of DMSO-Extracted and NaOH-Extracted Hemicelluloses by Gradient Ethanol Precipitation from (i) Neosinocalamus affinis (i). International Journal of Polymer Science, 2018, 2018, 1-8.	1.2	5
106	Isolation, Purification, and Potential Applications of Xylan. Biofuels and Biorefineries, 2019, , 3-35.	0.5	5
107	Strong and Highly Conductive Poly(vinyl alcohol)/Carbon Dot/EGaln Composite Films for Flexible and Transient Electronics. ACS Applied Polymer Materials, 2022, 4, 3647-3655.	2.0	5
108	Novel highâ€strength montmorillonite/polyvinyl alcohol composite film enhanced by chitin nanowhiskers. Journal of Applied Polymer Science, 2021, 138, app50344.	1.3	4

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109	Self-Standing, Photothermal-Actuating, and Motion-Monitoring Janus Films One-Pot Synthesized by Green Carboxymethyl Glucomannan/Liquid Metal Nanoinks. ACS Applied Materials & Emp; Interfaces, 2022, 14, 23717-23725.	4.0	4
110	Self-assembly design and synthesis of pulp fiber–graphene for flexible and high performance electrode based on polyacrylamide. New Journal of Chemistry, 2019, 43, 6394-6403.	1.4	3
111	Industrial scale-up of fiber recovery technology from mixed office waste fine screen rejects. BioResources, 2020, 15, 6420-6430.	0.5	3
112	MWNTs Modified Glassy Carbon Biosensor for Glucose. , 2006, , .		2
113	Photo-regulated supramolecular star with a pillar[6]arene-coated metal–organic polyhedron (MOP) core. Chemical Communications, 2020, 56, 6676-6679.	2.2	2
114	An electrospun composite of epoxidized Eucommia ulmoides gum and SiO2-GO with ultraviolet resistance. Journal of Materials Science, 2022, 57, 4862-4875.	1.7	2
115	Preparation and characterization of carbamoylethyl hemicelluloses. E-Polymers, 2009, 9, .	1.3	1
116	Kinetic model analysis of mild autohydrolysis of eucalyptus woodchips for xylose production. BioResources, 2022, 17, 3214-3226.	0.5	1
117	Rapid phthaloylation and succinylation of hemicelluloses by microwave irradiation. E-Polymers, 2008, 8, .	1.3	0
118	Synthesis and Characterization of Novel Functional Polymers from Hemicelluloses. Advanced Materials Research, 0, 295-297, 64-69.	0.3	0
119	Incineration Properties and Kinetic Studies of Sludge from Old Newsprint Fiber Line. BioResources, 2022, 17, 3095-3106.	0.5	0