

Feng Peng

List of Publications by Year in descending order

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119
papers

5,470
citations

101543

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91884

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all docs

120
docs citations

120
times ranked

7257
citing authors

#	ARTICLE	IF	CITATIONS
1	Dynamic Macro- and Microgels Driven by Adenosine Triphosphate-Fueled Competitive Host–Guest Interaction. <i>CCS Chemistry</i> , 2022, 4, 838-846.	7.8	17
2	Hydrothermal pretreatment for the production of oligosaccharides: A review. <i>Bioresource Technology</i> , 2022, 343, 126075.	9.6	40
3	Flexible conductive gasket based on Eucommia ulmoides gum and carbon fillers. <i>Industrial Crops and Products</i> , 2022, 176, 114347.	5.2	7
4	Novel, recyclable Brønsted acidic deep eutectic solvent for mild fractionation of hemicelluloses. <i>Carbohydrate Polymers</i> , 2022, 278, 118992.	10.2	19
5	An electrospun composite of epoxidized Eucommia ulmoides gum and SiO ₂ -GO with ultraviolet resistance. <i>Journal of Materials Science</i> , 2022, 57, 4862-4875.	3.7	2
6	Highly antibacterial hydrogels prepared from amino cellulose, dialdehyde xylan, and Ag nanoparticles by a green reduction method. <i>Cellulose</i> , 2022, 29, 1055-1067.	4.9	7
7	Effects of hydrothermal pretreatment on the dissolution and structural evolution of hemicelluloses and lignin: A review. <i>Carbohydrate Polymers</i> , 2022, 281, 119050.	10.2	81
8	A novel lignin-based hierarchical porous carbon for efficient and selective removal of Cr(VI) from wastewater. <i>International Journal of Biological Macromolecules</i> , 2022, 204, 310-320.	7.5	29
9	Strong and Highly Conductive Poly(vinyl alcohol)/Carbon Dot/EGaIn Composite Films for Flexible and Transient Electronics. <i>ACS Applied Polymer Materials</i> , 2022, 4, 3647-3655.	4.4	5
10	Efficient fractionation of woody biomass hemicelluloses using cholinium amino acids-based deep eutectic solvents and their aqueous mixtures. <i>Bioresource Technology</i> , 2022, 354, 127139.	9.6	19
11	Scalable, strong and water-stable wood-derived bioplastic. <i>Chemical Engineering Journal</i> , 2022, 439, 135680.	12.7	19
12	Incineration Properties and Kinetic Studies of Sludge from Old Newsprint Fiber Line. <i>BioResources</i> , 2022, 17, 3095-3106.	1.0	0
13	Kinetic model analysis of mild autohydrolysis of eucalyptus woodchips for xylose production. <i>BioResources</i> , 2022, 17, 3214-3226.	1.0	1
14	Transparent, Self-Adhesive, Conductive Organohydrogels with Fast Gelation from Lignin-Based Self-Catalytic System for Extreme Environmental-Resistant Triboelectric Nanogenerators. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	63
15	Self-Standing, Photothermal-Actuating, and Motion-Monitoring Janus Films One-Pot Synthesized by Green Carboxymethyl Glucomannan/Liquid Metal Nanoinks. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 23717-23725.	8.0	4
16	Novel high-strength montmorillonite/polyvinyl alcohol composite film enhanced by chitin nanowhiskers. <i>Journal of Applied Polymer Science</i> , 2021, 138, app50344.	2.6	4
17	Dialdehyde xylan-based sustainable, stable, and catalytic liquid metal nano-inks. <i>Green Chemistry</i> , 2021, 23, 7796-7804.	9.0	26
18	Ultrafast fabrication of organohydrogels with UV-blocking, anti-freezing, anti-drying, and skin epidermal sensing properties using lignin–Cu ²⁺ plant catechol chemistry. <i>Journal of Materials Chemistry A</i> , 2021, 9, 14381-14391.	10.3	45

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19	Solvent effect on xylose-to-furfural reaction in biphasic systems: combined experiments with theoretical calculations. <i>Green Chemistry</i> , 2021, 23, 8510-8518.	9.0	41
20	Rapid Processing of Holocellulose-Based Nanopaper toward an Electrode Material. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 3337-3346.	6.7	9
21	Natural Polymer <i>Eucommia Ulmoides</i> Rubber: A Novel Material. <i>Journal of Agricultural and Food Chemistry</i> , 2021, 69, 3797-3821.	5.2	70
22	Fabrication of flexible composite film based on xylan from pulping process for packaging application. <i>International Journal of Biological Macromolecules</i> , 2021, 173, 285-292.	7.5	16
23	Mussel-inspired adhesive hydrogels based on biomass-derived xylan and tannic acid cross-linked with acrylic acid with antioxidant and antibacterial properties. <i>Journal of Materials Science</i> , 2021, 56, 14729-14740.	3.7	24
24	Molybdenum-catalyzed hydrogenolysis of herbaceous biomass: A procedure integrated lignin fragmentation and components fractionation. <i>Bioresource Technology</i> , 2021, 333, 124977.	9.6	20
25	Constructing a Novel Xylan-Based Film with Flexibility, Transparency, and High Strength. <i>Biomacromolecules</i> , 2021, 22, 3810-3818.	5.4	14
26	Comparison of structure, thermal stability, and pyrolysis products of lignin extracted with CHCl_3 -formic acid/lactic acid systems. <i>Journal of Materials Research and Technology</i> , 2021, 14, 841-850.	5.8	9
27	Anti-freezing, water-retaining, conductive, and strain-sensitive hemicellulose/polypyrrole composite hydrogels for flexible sensors. <i>Journal of Materials Research and Technology</i> , 2021, 14, 555-566.	5.8	34
28	Physicochemical Properties and Skin Protection Activities of Polysaccharides from <i>Usnea longissima</i> by Graded Ethanol Precipitation. <i>ACS Omega</i> , 2021, 6, 25010-25018.	3.5	8
29	Rapid fabrication of xylan-based hydrogel by graft polymerization via a dynamic lignin- Fe^{3+} plant catechol system. <i>Carbohydrate Polymers</i> , 2021, 269, 118306.	10.2	25
30	Green and cost-effective synthesis of flexible, highly conductive cellulose nanofiber/reduced graphene oxide composite film with deep eutectic solvent. <i>Carbohydrate Polymers</i> , 2021, 272, 118514.	10.2	19
31	Acetone fractionation of heterogeneous tetrahydrofurfuryl alcohol lignin to improve its homogeneity and functionality. <i>Journal of Materials Research and Technology</i> , 2021, 10, 632-642.	5.8	6
32	Lignin/Xylan-Based Phase Selective Powder Gelator for Eco-Friendly Oil Spill Treatment. <i>Advanced Sustainable Systems</i> , 2021, 5, 2100229.	5.3	6
33	Alkaline deep eutectic solvents as novel and effective pretreatment media for hemicellulose dissociation and enzymatic hydrolysis enhancement. <i>International Journal of Biological Macromolecules</i> , 2021, 193, 1610-1616.	7.5	32
34	Solvent effect on xylose conversion under catalyst-free conditions: insights from molecular dynamics simulation and experiments. <i>Green Chemistry</i> , 2020, 22, 532-539.	9.0	43
35	Biocatalytic Feedback-Controlled Non-Newtonian Fluids. <i>Angewandte Chemie</i> , 2020, 132, 4344-4349.	2.0	8
36	Biocatalytic Feedback-Controlled Non-Newtonian Fluids. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 4314-4319.	13.8	17

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37	Synthesis of hemicellulose hydrogels with tunable conductivity and swelling behavior through facile one-pot reaction. International Journal of Biological Macromolecules, 2020, 154, 1528-1536.	7.5	10
38	Hydrothermal synthesis and applications of advanced carbonaceous materials from biomass: a review. Advanced Composites and Hybrid Materials, 2020, 3, 267-284.	21.1	83
39	Chemicalâ€Fuelâ€Driven Assembly in Macromolecular Science: Recent Advances and Challenges. ChemPlusChem, 2020, 85, 1190-1199.	2.8	13
40	Photo-regulated supramolecular star with a pillar[6]arene-coated metalâ€organic polyhedron (MOP) core. Chemical Communications, 2020, 56, 6676-6679.	4.1	2
41	Enhanced mechanical performance of xylan-based composite hydrogel via chain extension and semi-interpenetrating networks. Cellulose, 2020, 27, 4407-4416.	4.9	14
42	Xylan-based hydrogels for potential skin care application. International Journal of Biological Macromolecules, 2020, 158, 244-250.	7.5	32
43	Hemicelluloses-based magnetic aerogel as an efficient adsorbent for Congo red. International Journal of Biological Macromolecules, 2020, 155, 369-375.	7.5	44
44	CO ₂ -switchable non-Newtonian fluids. Green Chemistry, 2020, 22, 3784-3790.	9.0	15
45	Comparison of emulsifying capacity of two hemicelluloses from moso bamboo in soy oil-in-water emulsions. RSC Advances, 2020, 10, 4657-4663.	3.6	7
46	Industrial scale-up of fiber recovery technology from mixed office waste fine screen rejects. BioResources, 2020, 15, 6420-6430.	1.0	3
47	A ternary MnO ₂ -deposited RGO/lignin-based porous carbon composite electrode for flexible supercapacitor applications. New Journal of Chemistry, 2019, 43, 14084-14092.	2.8	21
48	Syntheses of xylan stearate nanoparticles with loading function from by-products of viscose fiber mills. Cellulose, 2019, 26, 7195-7206.	4.9	23
49	Efficient catalytic conversion of dilute-oxalic acid pretreated bagasse hydrolysate to furfural using recyclable iron phosphates catalysts. Bioresource Technology, 2019, 290, 121764.	9.6	19
50	Comparative investigation on bio-oil production from eucalyptus via liquefaction in subcritical water and supercritical ethanol. Industrial Crops and Products, 2019, 140, 111695.	5.2	30
51	Choline chloride-lactic acid deep eutectic solvent for delignification and nanocellulose production of moso bamboo. Cellulose, 2019, 26, 9447-9462.	4.9	79
52	Subcritical liquefaction of lignocellulose for the production of bio-oils in ethanol/water system. Renewable Energy, 2019, 136, 865-872.	8.9	18
53	Benzoxazine enhanced amino cellulose-based composite films: Preparation, proposed mechanism, and improved performance. Carbohydrate Polymers, 2019, 222, 115008.	10.2	24
54	Fabrication of antimicrobial composite films based on xylan from pulping process for food packaging. International Journal of Biological Macromolecules, 2019, 134, 122-130.	7.5	37

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55	Fast and simple construction of composite films with renewable <i>Eucommia ulmoides</i> gum and Poly(μ -caprolactone). <i>Composites Science and Technology</i> , 2019, 179, 145-151.	7.8	18
56	Structure and distribution changes of Eucalyptus hemicelluloses during hydrothermal and alkaline pretreatments. <i>International Journal of Biological Macromolecules</i> , 2019, 133, 514-521.	7.5	36
57	Self-assembly design and synthesis of pulp fiberâ€“graphene for flexible and high performance electrode based on polyacrylamide. <i>New Journal of Chemistry</i> , 2019, 43, 6394-6403.	2.8	3
58	Preparation of organic acid lignin submicrometer particle as a natural broad-spectrum photo-protection agent. <i>International Journal of Biological Macromolecules</i> , 2019, 132, 836-843.	7.5	29
59	Isolation, Purification, and Potential Applications of Xylan. <i>Biofuels and Biorefineries</i> , 2019, , 3-35.	0.5	5
60	Tetrahydro-2-furanmethanol pretreatment of eucalyptus to enhance cellulose enzymatic hydrolysis and to produce high-quality lignin. <i>Bioresource Technology</i> , 2019, 280, 489-492.	9.6	20
61	Preparation of Lignocellulose-Based Activated Carbon Paper as a Manganese Dioxide Carrier for Adsorption and in-situ Catalytic Degradation of Formaldehyde. <i>Frontiers in Chemistry</i> , 2019, 7, 808.	3.6	14
62	Hemicellulose from Plant Biomass in Medical and Pharmaceutical Application: A Critical Review. <i>Current Medicinal Chemistry</i> , 2019, 26, 2430-2455.	2.4	60
63	Fabrication of strong nanocomposite films with renewable forestry waste/montmorillonite/reduction of graphene oxide for fire retardant. <i>Chemical Engineering Journal</i> , 2018, 337, 436-445.	12.7	49
64	NMR and ESIâ€“MS spectrometry characterization of autohydrolysis xylo-oligosaccharides separated by gel permeation chromatography. <i>Carbohydrate Polymers</i> , 2018, 195, 303-310.	10.2	31
65	Composite Film Based on Pulping Industry Waste and Chitosan for Food Packaging. <i>Materials</i> , 2018, 11, 2264.	2.9	9
66	Conversion of poplar into bio-oil via subcritical hydrothermal liquefaction: Structure and antioxidant capacity. <i>Bioresource Technology</i> , 2018, 270, 216-222.	9.6	29
67	Turning Wood Autohydrolysate Directly into Food Packing Composite Films with Good Toughness. <i>International Journal of Polymer Science</i> , 2018, 2018, 1-8.	2.7	6
68	Fractionation of DMSO-Extracted and NaOH-Extracted Hemicelluloses by Gradient Ethanol Precipitation from <i>Neosinocalamus affinis</i> . <i>International Journal of Polymer Science</i> , 2018, 2018, 1-8.	2.7	5
69	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> , 2018, 19, 1.	4.1	1,144
70	Changes of Chemical Composition and Hemicelluloses Structure in Differently Aged Bamboo (<i>Neosinocalamus affinis</i>) Culms. <i>Journal of Agricultural and Food Chemistry</i> , 2018, 66, 9199-9208.	5.2	20
71	Facile synthesis of high strength hot-water wood extract films with oxygen-barrier performance. <i>Scientific Reports</i> , 2017, 7, 41075.	3.3	5
72	Biphasic 2-methyltetrahydrofuran/oxalic acid/water pretreatment to enhance cellulose enzymatic hydrolysis and lignin valorization. <i>Bioresource Technology</i> , 2017, 243, 1105-1111.	9.6	43

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73	Synthesis of Acylated Xylan-Based Magnetic Fe ₃ O ₄ Hydrogels and Their Application for H ₂ O ₂ Detection. <i>Materials</i> , 2016, 9, 690.	2.9	22
74	Preparation and Characterization of Blended Films from Quaternized Hemicelluloses and Carboxymethyl Cellulose. <i>Materials</i> , 2016, 9, 4.	2.9	26
75	High Strength Hemicellulose-Based Nanocomposite Film for Food Packaging Applications. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 1985-1993.	6.7	145
76	Facile approach to prepare drug-loading film from hemicelluloses and chitosan. <i>Carbohydrate Polymers</i> , 2016, 153, 542-548.	10.2	42
77	Enhanced mechanical performance of biocompatible hemicelluloses-based hydrogel via chain extension. <i>Scientific Reports</i> , 2016, 6, 33603.	3.3	26
78	Effect of structural characteristics of corncob hemicelluloses fractionated by graded ethanol precipitation on furfural production. <i>Carbohydrate Polymers</i> , 2016, 136, 203-209.	10.2	50
79	Variations of lignin and lignin-carbohydrate linkages from young <i>Neosinocalamus affinis</i> bamboo culms. <i>RSC Advances</i> , 2016, 6, 15478-15484.	3.6	21
80	Hemicelluloses/montmorillonite hybrid films with improved mechanical and barrier properties. <i>Scientific Reports</i> , 2015, 5, 16405.	3.3	29
81	Fractionation of bamboo hemicelluloses by graded saturated ammonium sulphate. <i>Carbohydrate Polymers</i> , 2015, 129, 201-207.	10.2	20
82	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.	6.2	69
83	Structural characterization of hemicelluloses and topochemical changes in <i>Eucalyptus</i> cell wall during alkali ethanol treatment. <i>Carbohydrate Polymers</i> , 2015, 123, 17-26.	10.2	26
84	Fabrication of Biopolymer Hydrogel Containing Ag Nanoparticles for Antibacterial Property. <i>Industrial & Engineering Chemistry Research</i> , 2015, 54, 7393-7400.	3.7	42
85	Corncob lignocellulose for the production of furfural by hydrothermal pretreatment and heterogeneous catalytic process. <i>RSC Advances</i> , 2015, 5, 60264-60272.	3.6	28
86	TiO ₂ -containing PVA/xylan composite films with enhanced mechanical properties, high hydrophobicity and UV shielding performance. <i>Cellulose</i> , 2015, 22, 593-602.	4.9	69
87	A non-covalent strategy for montmorillonite/xylose self-healing hydrogels. <i>RSC Advances</i> , 2015, 5, 41006-41012.	3.6	20
88	Assessment of integrated process based on hydrothermal and alkaline treatments for enzymatic saccharification of sweet sorghum stems. <i>Bioresource Technology</i> , 2015, 175, 473-479.	9.6	70
89	Organic/Inorganic Superabsorbent Hydrogels Based on Xylan and Montmorillonite. <i>Journal of Nanomaterials</i> , 2014, 2014, 1-11.	2.7	17
90	High strength of hemicelluloses based hydrogels by freeze/thaw technique. <i>Carbohydrate Polymers</i> , 2014, 101, 272-280.	10.2	126

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91	Influence of urea and glycerol on functional properties of biodegradable PVA/xylan composite films. <i>Cellulose</i> , 2014, 21, 495-505.	4.9	30
92	Nanoreinforced hemicellulose-based hydrogels prepared by freeze-thaw treatment. <i>Cellulose</i> , 2014, 21, 1709-1721.	4.9	39
93	Synthesis and properties of hemicelluloses-based semi-IPN hydrogels. <i>International Journal of Biological Macromolecules</i> , 2014, 65, 564-572.	7.5	39
94	Organic-Inorganic Composite Films Based on Modified Hemicelluloses with Clay Nanoplatelets. <i>ACS Sustainable Chemistry and Engineering</i> , 2014, 2, 1811-1818.	6.7	42
95	Microwave-assisted acid hydrolysis to produce xylooligosaccharides from sugarcane bagasse hemicelluloses. <i>Food Chemistry</i> , 2014, 156, 7-13.	8.2	87
96	Catalytic hydrothermal pretreatment of corncob into xylose and furfural via solid acid catalyst. <i>Bioresource Technology</i> , 2014, 158, 313-320.	9.6	101
97	Structural features and antioxidant activity of xylooligosaccharides enzymatically produced from sugarcane bagasse. <i>Bioresource Technology</i> , 2013, 127, 236-241.	9.6	127
98	Binding cellulose and chitosan via click chemistry: Synthesis, characterization, and formation of some hollow tubes. <i>Journal of Polymer Science Part A</i> , 2012, 50, 5201-5210.	2.3	33
99	Separation and Characterization of Acetyl and Non-Acetyl Hemicelluloses of <i>Arundo donax</i> by Ammonium Sulfate Precipitation. <i>Journal of Agricultural and Food Chemistry</i> , 2012, 60, 4039-4047.	5.2	41
100	A comparative study of bamboo (<i>Phyllostachys incarnata</i> Wen) milled wood lignin and the successively alkali-fractionated lignins. <i>Wood Science and Technology</i> , 2012, 46, 871-885.	3.2	16
101	Fractional purification and bioconversion of hemicelluloses. <i>Biotechnology Advances</i> , 2012, 30, 879-903.	11.7	338
102	Chemical composition and structural feature of <i>Populus gansuensis</i> hemicellulosic polymers. <i>Journal of Applied Polymer Science</i> , 2012, 124, 3154-3164.	2.6	12
103	Studies on the Starch and Hemicelluloses Fractionated by Graded Ethanol Precipitation from Bamboo <i>Phyllostachys bambusoides</i> f. <i>shouzhu</i> Yi. <i>Journal of Agricultural and Food Chemistry</i> , 2011, 59, 2680-2688.	5.2	102
104	Chemicals from Hemicelluloses: A Review. <i>ACS Symposium Series</i> , 2011, , 219-259.	0.5	20
105	Isolation and structural characterization of hemicelluloses from the bamboo species <i>Phyllostachys incarnata</i> Wen. <i>Carbohydrate Polymers</i> , 2011, 86, 883-890.	10.2	85
106	Rapid Carboxymethylation of Xylan-Rich Hemicelluloses by Microwave Irradiation. <i>Advanced Materials Research</i> , 2011, 236-238, 292-296.	0.3	7
107	Fractional isolation and structural characterization of hemicelluloses from <i>Caragana korshinskii</i> . <i>Carbohydrate Polymers</i> , 2010, 80, 753-760.	10.2	47
108	Separation and Structural Characterization of Lignin from Hybrid Poplar Based on Complete Dissolution in DMSO/LiCl. <i>Separation Science and Technology</i> , 2010, 45, 2497-2506.	2.5	22

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109	Fractionation of Alkali-Solubilized Hemicelluloses from Delignified <i>Populus gansuensis</i> : Structure and Properties. Journal of Agricultural and Food Chemistry, 2010, 58, 5743-5750.	5.2	51
110	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.	5.2	91
111	Comparative Study of Hemicelluloses Obtained by Graded Ethanol Precipitation from Sugarcane Bagasse. Journal of Agricultural and Food Chemistry, 2009, 57, 6305-6317.	5.2	312
112	Preparation and characterization of carbamoylethyl hemicelluloses. E-Polymers, 2009, 9, .	3.0	1
113	Carboxymethylation of hemicelluloses isolated from sugarcane bagasse. Polymer Degradation and Stability, 2008, 93, 786-793.	5.8	131
114	Preparation and characterization of hemicellulosic derivatives containing carbamoylethyl and carboxyethyl groups. Carbohydrate Research, 2008, 343, 2776-2782.	2.3	16
115	Rapid homogeneous lauroylation of wheat straw hemicelluloses under mild conditions. Carbohydrate Research, 2008, 343, 2956-2962.	2.3	23
116	Rapid phthaloylation and succinylation of hemicelluloses by microwave irradiation. E-Polymers, 2008, 8, .	3.0	0
117	Preparation of Ag-sensitized ZnO and its photocatalytic performance under simulated solar light. Korean Journal of Chemical Engineering, 2007, 24, 1022-1026.	2.7	18
118	MWNTs Modified Glassy Carbon Biosensor for Glucose. , 2006, , .		2
119	Synthesis and Characterization of Novel Functional Polymers from Hemicelluloses. Advanced Materials Research, 0, 295-297, 64-69.	0.3	0