

# Feng Xu

## List of Publications by Year in descending order

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110  
papers

8,719  
citations

50170

46  
h-index

43802

91  
g-index

111  
all docs

111  
docs citations

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times ranked

9190  
citing authors

#	ARTICLE	IF	CITATIONS
1	Rapid and efficient microwave-assisted guanidine hydrochloride deep eutectic solvent pretreatment for biological conversion of castor stalk. <i>Bioresource Technology</i> , 2022, 343, 126022.	4.8	32
2	One-pot freezing-thawing preparation of cellulose nanofibrils reinforced polyvinyl alcohol based ionic hydrogel strain sensor for human motion monitoring. <i>Carbohydrate Polymers</i> , 2022, 275, 118697.	5.1	54
3	Mild fractionation of poplar into reactive lignin via lignin-first strategy and its enhancement on cellulose saccharification. <i>Bioresource Technology</i> , 2022, 343, 126122.	4.8	25
4	Low-Temperature tolerance and conformal adhesion zwitterionic hydrogels as electronic skin for strain and temperature responsiveness. <i>Chemical Engineering Journal</i> , 2022, 431, 133782.	6.6	57
5	Reinforcing Paper Strength with High Viscosity Aminated Cellulose Nanocrystal by Forming Nanocrystal Networks. <i>Journal of Polymers and the Environment</i> , 2022, 30, 2474-2482.	2.4	4
6	The choice of ionic liquid ions to mitigate corrosion impacts: the influence of superbase cations and electron-donating carboxylate anions. <i>Green Chemistry</i> , 2022, 24, 2114-2128.	4.6	9
7	Adhesive Ionohydrogels Based on Ionic Liquid/Water Binary Solvents with Freezing Tolerance for Flexible Ionotronic Devices. <i>Chemistry of Materials</i> , 2022, 34, 1065-1077.	3.2	66
8	Tree-inspired lignin microrods-based composite heterogeneous nanochannels for ion transport and osmotic energy harvesting. <i>Energy Conversion and Management</i> , 2022, 255, 115321.	4.4	12
9	Chemical Characteristics of Wood Cell Wall with an Emphasis on Ultrastructure: A Mini-Review. <i>Forests</i> , 2022, 13, 439.	0.9	17
10	Leak-free, high latent heat and self-cleaning phase change materials supported by layered cellulose/Fe <sub>3</sub> O <sub>4</sub> skeleton for light-to-thermal energy conversion. <i>Energy Conversion and Management</i> , 2022, 256, 115357.	4.4	23
11	Materials with Tunable Optical Properties for Wearable Epidermal Sensing in Health Monitoring. <i>Advanced Materials</i> , 2022, 34, e2109055.	11.1	74
12	Highly-efficient pretreatment using alkaline enhanced aqueous deep eutectic solvent to unlock poplar for high yield of fermentable sugars: Synergistic removal of lignin and mannan. <i>Bioresource Technology</i> , 2022, 351, 126993.	4.8	20
13	Surface-microstructured cellulose films toward sensitive pressure sensors and efficient triboelectric nanogenerators. <i>International Journal of Biological Macromolecules</i> , 2022, 208, 324-332.	3.6	14
14	Direct-Ink-Write Printing and Electrospinning of Cellulose Derivatives for Conductive Composite Materials. <i>Materials</i> , 2022, 15, 2840.	1.3	7
15	Laminar regenerated cellulose membrane employed for high-performance photothermal-gating osmotic power harvesting. <i>Carbohydrate Polymers</i> , 2022, 292, 119657.	5.1	6
16	Ultrafast Fabrication of Lignin-Encapsulated Silica Nanoparticles Reinforced Conductive Hydrogels with High Elasticity and Self-Adhesion for Strain Sensors. <i>Chemistry of Materials</i> , 2022, 34, 5258-5272.	3.2	85
17	Fractionation of light-colored lignin via lignin-first strategy and enhancement of cellulose saccharification towards biomass valorization. <i>Industrial Crops and Products</i> , 2022, 186, 115173.	2.5	15
18	Lignin nanorods reinforced nanocomposite hydrogels with UV-shielding, anti-freezing and anti-drying applications. <i>Industrial Crops and Products</i> , 2022, 187, 115324.	2.5	5

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19	Flexible and Sensitivity-Adjustable Pressure Sensors Based on Carbonized Bacterial Nanocellulose/Wood-Derived Cellulose Nanofibril Composite Aerogels. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 8754-8763.	4.0	76
20	High-barrier, strong, and antibacterial paper fabricated by coating acetylated cellulose and cinnamaldehyde for food packaging. <i>Cellulose</i> , 2021, 28, 4371-4384.	2.4	25
21	Environmentally Compatible Wearable Electronics Based on Ionically Conductive Organohydrogels for Health Monitoring with Thermal Compatibility, Anti-Dehydration, and Underwater Adhesion. <i>Small</i> , 2021, 17, e2101151.	5.2	70
22	Facile in situ fabrication of ZnO-embedded cellulose nanocomposite films with antibacterial properties and enhanced mechanical strength via hydrogen bonding interactions. <i>International Journal of Biological Macromolecules</i> , 2021, 183, 760-771.	3.6	26
23	Biodegradable and transparent films with tunable UV-blocking property from Lignocellulosic waste by a top-down approach. <i>Cellulose</i> , 2021, 28, 8629-8640.	2.4	16
24	Robust superbase-based emerging solvents for highly efficient dissolution of cellulose. <i>Carbohydrate Polymers</i> , 2021, 272, 118454.	5.1	18
25	Insights into alkaline choline chloride-based deep eutectic solvents pretreatment for <i>Populus deltoides</i> : Lignin structural features and modification mechanism. <i>International Journal of Biological Macromolecules</i> , 2021, 193, 319-327.	3.6	30
26	Sustainable and Superhydrophobic Lignocellulose-Based Transparent Films with Efficient Light Management and Self-Cleaning. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 49340-49347.	4.0	32
27	Nitrogen-Doped Carbon Quantum Dot-Anchored Hydrogels for Visual Recognition of Dual Metal Ions through Reversible Fluorescence Response. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 15190-15201.	3.2	19
28	Engineering Self-Adhesive Polyzwitterionic Hydrogel Electrolytes for Flexible Zinc-Ion Hybrid Capacitors with Superior Low-Temperature Adaptability. <i>ACS Nano</i> , 2021, 15, 18469-18482.	7.3	145
29	Tannic Acid-Silver Dual Catalysis Induced Rapid Polymerization of Conductive Hydrogel Sensors with Excellent Stretchability, Self-Adhesion, and Strain-Sensitivity Properties. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 56509-56521.	4.0	161
30	Mild Acetylation and Solubilization of Ground Whole Plant Cell Walls in EmimAc: A Method for Solution-State NMR in DMSO- <i>d</i> <sub>6</sub> . <i>Analytical Chemistry</i> , 2020, 92, 13101-13109.	3.2	6
31	Valorization of industrial xylan-rich hemicelluloses into water-soluble derivatives by in-situ acetylation in EmimAc ionic liquid. <i>International Journal of Biological Macromolecules</i> , 2020, 163, 457-463.	3.6	7
32	Quantitative structures and thermal properties of <i>Miscanthus Ã— giganteus</i> lignin after alcoholamine-based ionic liquid pretreatment. <i>Industrial Crops and Products</i> , 2020, 147, 112232.	2.5	21
33	High Purity and Low Molecular Weight Lignin Nano-Particles Extracted from Acid-Assisted MIBK Pretreatment. <i>Polymers</i> , 2020, 12, 378.	2.0	14
34	Deconstruction of oriented crystalline cellulose by novel levulinic acid based deep eutectic solvents pretreatment for improved enzymatic accessibility. <i>Bioresource Technology</i> , 2020, 305, 123025.	4.8	98
35	Smart colorimetric sensing films with high mechanical strength and hydrophobic properties for visual monitoring of shrimp and pork freshness. <i>Sensors and Actuators B: Chemical</i> , 2020, 309, 127752.	4.0	136
36	Room-Temperature Superbase-Derived Ionic Liquids with Facile Synthesis and Low Viscosity: Powerful Solvents for Cellulose Dissolution by Destroying the Cellulose Aggregate Structure. <i>Macromolecules</i> , 2020, 53, 3284-3295.	2.2	41

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37	NaOH-Aided Sulfolane Pretreatment for Effective Fractionation and Utilization of Willow ( <i>Salix</i> ) Tj ETQq1 1 0.784314 rgBT/Overlo	1.8	15
38	Fabrication of regenerated cellulose membranes with high tensile strength and antibacterial property via surface amination. <i>Industrial Crops and Products</i> , 2019, 140, 111603.	2.5	22
39	Compressible, Fatigue Resistant, and Pressure-Sensitive Carbon Aerogels Developed with a Facile Method for Sensors and Electrodes. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 12726-12733.	3.2	35
40	Enhanced Dissolution of Cotton Cellulose in 1-Allyl-3-methylimidazolium Chloride by the Addition of Metal Chlorides. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 19176-19184.	3.2	46
41	Heteropoly acids enhanced neutral deep eutectic solvent pretreatment for enzymatic hydrolysis and ethanol fermentation of <i>Miscanthus x giganteus</i> under mild conditions. <i>Bioresource Technology</i> , 2019, 293, 122036.	4.8	48
42	Synthesis of N-doped carbon quantum dots from bio-waste lignin for selective irons detection and cellular imaging. <i>International Journal of Biological Macromolecules</i> , 2019, 128, 537-545.	3.6	119
43	Transformation of lignosulfonate into graphene-like 2D nanosheets: Self-assembly mechanism and their potential in biomedical and electrical applications. <i>International Journal of Biological Macromolecules</i> , 2019, 128, 621-628.	3.6	18
44	Subcellular dissolution of xylan and lignin for enhancing enzymatic hydrolysis of microwave assisted deep eutectic solvent pretreated <i>Pinus bungeana</i> Zucc. <i>Bioresource Technology</i> , 2019, 288, 121475.	4.8	48
45	Crepe cellulose paper and nitrocellulose membrane-based triboelectric nanogenerators for energy harvesting and self-powered human-machine interaction. <i>Nano Energy</i> , 2019, 61, 69-77.	8.2	142
46	Short-time deep eutectic solvent pretreatment for enhanced enzymatic saccharification and lignin valorization. <i>Green Chemistry</i> , 2019, 21, 3099-3108.	4.6	155
47	Structural Characterization and Antioxidant Activity of Milled Wood Lignin from Xylose Residue and Corncob. <i>Polymers</i> , 2019, 11, 2092.	2.0	21
48	Structural variations of cotton cellulose nanocrystals from deep eutectic solvent treatment: micro and nano scale. <i>Cellulose</i> , 2019, 26, 861-876.	2.4	73
49	Mimicking Dynamic Adhesiveness and Strain-Stiffening Behavior of Biological Tissues in Tough and Self-Healable Cellulose Nanocomposite Hydrogels. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 5885-5895.	4.0	171
50	Effects of synergistic fungal pretreatment on structure and thermal properties of lignin from corncob. <i>Bioresource Technology</i> , 2019, 272, 123-129.	4.8	42
51	Highly Efficient Conversion of Xylose Residues to Levulinic Acid over FeCl <sub>3</sub> Catalyst in Green Salt Solutions. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 3154-3161.	3.2	49
52	Mussel-Inspired Cellulose Nanocomposite Tough Hydrogels with Synergistic Self-Healing, Adhesive, and Strain-Sensitive Properties. <i>Chemistry of Materials</i> , 2018, 30, 3110-3121.	3.2	627
53	Nanocrystals of cellulose allomorphs have different adsorption of cellulase and subsequent degradation. <i>Industrial Crops and Products</i> , 2018, 112, 541-549.	2.5	39
54	Revealing the Dynamic Formation Process and Mechanism of Hollow Carbon Spheres: From Bowl to Sphere. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 2797-2805.	3.2	45

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55	Superhydrophobic Cellulose Nanofiber-Assembled Aerogels for Highly Efficient Water-in-Oil Emulsions Separation. <i>ACS Applied Nano Materials</i> , 2018, 1, 2095-2103.	2.4	96
56	Synergetic Dissolution of Branched Xylan and Lignin Opens the Way for Enzymatic Hydrolysis of Poplar Cell Wall. <i>Journal of Agricultural and Food Chemistry</i> , 2018, 66, 3449-3456.	2.4	15
57	Highly Transparent and Hazy Cellulose Nanopaper Simultaneously with a Self-Cleaning Superhydrophobic Surface. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 5173-5181.	3.2	86
58	Enhanced enzymatic hydrolysis by adding long-chain fatty alcohols using film as a structure model. <i>Bioresource Technology</i> , 2018, 249, 82-88.	4.8	6
59	Reconstruction of lignin and hemicelluloses by aqueous ethanol anti-solvents to improve the ionic liquid acid pretreatment performance of <i>Arundo donax</i> Linn. <i>Biotechnology and Bioengineering</i> , 2018, 115, 82-91.	1.7	7
60	Lignosulfonate-Directed Synthesis of Consubstantial Yolk-Shell Carbon Microspheres with Pollen-Like Surface from Sugar Biomass. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 16315-16322.	3.2	16
61	Super-compressible, fatigue resistant and anisotropic carbon aerogels for piezoresistive sensors. <i>Cellulose</i> , 2018, 25, 7329-7340.	2.4	46
62	Flexible and Highly Sensitive Resistive Pressure Sensor Based on Carbonized Crepe Paper with Corrugated Structure. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 34646-34654.	4.0	137
63	Flexible and Anisotropic Strain Sensor Based on Carbonized Crepe Paper with Aligned Cellulose Fibers. <i>Advanced Functional Materials</i> , 2018, 28, 1802547.	7.8	228
64	Biofriendly, Stretchable, and Reusable Hydrogel Electronics as Wearable Force Sensors. <i>Small</i> , 2018, 14, e1801711.	5.2	144
65	An approach for reinforcement of paper with high strength and barrier properties via coating regenerated cellulose. <i>Carbohydrate Polymers</i> , 2018, 200, 100-105.	5.1	35
66	Integration of facile deep eutectic solvents pretreatment for enhanced enzymatic hydrolysis and lignin valorization from industrial xylose residue. <i>Bioresource Technology</i> , 2018, 265, 334-339.	4.8	77
67	Metal Ion Mediated Cellulose Nanofibrils Transient Network in Covalently Cross-linked Hydrogels: Mechanistic Insight into Morphology and Dynamics. <i>Biomacromolecules</i> , 2017, 18, 1019-1028.	2.6	86
68	A Self-Healing Cellulose Nanocrystal-Poly(ethylene glycol) Nanocomposite Hydrogel via Diels-Alder Click Reaction. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 6167-6174.	3.2	206
69	Efficient Short Time White Rot-Brown Rot Fungal Pretreatments for the Enhancement of Enzymatic Saccharification of Corn Cobs. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 10849-10857.	3.2	33
70	High-Strength, Tough, and Self-Healing Nanocomposite Physical Hydrogels Based on the Synergistic Effects of Dynamic Hydrogen Bond and Dual Coordination Bonds. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 28305-28318.	4.0	326
71	Preparation of carbon aerogels from TEMPO-oxidized cellulose nanofibers for organic solvents absorption. <i>RSC Advances</i> , 2017, 7, 38220-38230.	1.7	40
72	Synergistic Reinforcing Mechanisms in Cellulose Nanofibrils Composite Hydrogels: Interfacial Dynamics, Energy Dissipation, and Damage Resistance. <i>Biomacromolecules</i> , 2017, 18, 2623-2632.	2.6	60

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73	Exploring crystalline-structural variations of cellulose during alkaline pretreatment for enhanced enzymatic hydrolysis. <i>Bioresource Technology</i> , 2017, 224, 611-617.	4.8	115
74	Interconnected Hierarchical Porous Carbon from Lignin-Derived Byproducts of Bioethanol Production for Ultra-High Performance Supercapacitors. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 13918-13925.	4.0	200
75	Progressive deconstruction of <i>Arundo donax</i> Linn. to fermentable sugars by acid catalyzed ionic liquid pretreatment. <i>Bioresource Technology</i> , 2016, 199, 271-274.	4.8	16
76	How Does Hemicelluloses Removal Alter Plant Cell Wall Nanoscale Architecture and Correlate with Enzymatic Digestibility?. <i>Bioenergy Research</i> , 2016, 9, 601-609.	2.2	20
77	Sustainable, Reusable, and Superhydrophobic Aerogels from Microfibrillated Cellulose for Highly Effective Oil/Water Separation. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 6409-6416.	3.2	197
78	Facile isothermal solid acid catalyzed ionic liquid pretreatments to enhance the combined sugars production from <i>Arundo donax</i> Linn.. <i>Biotechnology for Biofuels</i> , 2016, 9, 177.	6.2	18
79	Probing and visualizing the heterogeneity of fiber cell wall deconstruction in sugar maple ( <i>Acer</i> ) Tj ETQq1 1 0.784314 rgBT /Overlock 10	1.7	16
80	Simple Approach to Synthesize Amino-Functionalized Carbon Dots by Carbonization of Chitosan. <i>Scientific Reports</i> , 2016, 6, 31100.	1.6	136
81	Synthesis of Highly Polymerized Water-soluble Cellulose Acetate by the Side Reaction in Carboxylate Ionic Liquid 1-ethyl-3-methylimidazolium Acetate. <i>Scientific Reports</i> , 2016, 6, 33725.	1.6	28
82	Elucidating Dynamics of Precoordinated Ionic Bridges as Sacrificial Bonds in Interpenetrating Network Hydrogels. <i>Macromolecules</i> , 2016, 49, 4340-4348.	2.2	47
83	Synergistic effect of white-rot fungi and alkaline pretreatments for improving enzymatic hydrolysis of poplar wood. <i>Industrial Crops and Products</i> , 2016, 86, 155-162.	2.5	31
84	Efficient recovery and structural characterization of lignin from cotton stalk based on a biorefinery process using a $\gamma$ -valerolactone/water system. <i>RSC Advances</i> , 2016, 6, 6196-6204.	1.7	35
85	Facile Template Synthesis of Microfibrillated Cellulose/Polypyrrole/Silver Nanoparticles Hybrid Aerogels with Electrical Conductive and Pressure Responsive Properties. <i>ACS Sustainable Chemistry and Engineering</i> , 2015, 3, 3346-3354.	3.2	103
86	Design of Cellulose Nanocrystals Template-Assisted Composite Hydrogels: Insights from Static to Dynamic Alignment. <i>Macromolecules</i> , 2015, 48, 1231-1239.	2.2	44
87	Comparison of physical properties of regenerated cellulose films fabricated with different cellulose feedstocks in ionic liquid. <i>Carbohydrate Polymers</i> , 2015, 121, 71-78.	5.1	120
88	Separation and characterization of lignin obtained by catalytic hydrothermal pretreatment of cotton stalk. <i>Industrial Crops and Products</i> , 2015, 66, 123-130.	2.5	48
89	The mechanism of xylans removal during hydrothermal pretreatment of poplar fibers investigated by immunogold labeling. <i>Planta</i> , 2015, 242, 327-337.	1.6	29
90	Tough nanocomposite hydrogels from cellulose nanocrystals/poly(acrylamide) clusters: influence of the charge density, aspect ratio and surface coating with PEG. <i>Cellulose</i> , 2014, 21, 541-551.	2.4	37

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91	Characteristics and enzymatic hydrolysis of cellulose-rich fractions from steam exploded and sequentially alkali delignified bamboo ( <i>Phyllostachys pubescens</i> ). <i>Bioresource Technology</i> , 2014, 163, 377-380.	4.8	34
92	Understanding the chemical transformations of lignin during ionic liquid pretreatment. <i>Green Chemistry</i> , 2014, 16, 181-190.	4.6	260
93	Revealing the Changes in Topochemical Characteristics of Poplar Cell Wall During Hydrothermal Pretreatment. <i>Bioenergy Research</i> , 2014, 7, 1358-1368.	2.2	37
94	Self-healing gels based on constitutional dynamic chemistry and their potential applications. <i>Chemical Society Reviews</i> , 2014, 43, 8114-8131.	18.7	733
95	Cellulose Nanocrystals Mechanical Reinforcement in Composite Hydrogels with Multiple Cross-Links: Correlations between Dissipation Properties and Deformation Mechanisms. <i>Macromolecules</i> , 2014, 47, 4077-4086.	2.2	180
96	Revealing Strong Nanocomposite Hydrogels Reinforced by Cellulose Nanocrystals: Insight into Morphologies and Interactions. <i>ACS Applied Materials &amp; Interfaces</i> , 2013, 5, 12960-12967.	4.0	80
97	Enhanced hydrophobicity and thermal stability of hemicelluloses by butyrylation in [BMIM]Cl ionic liquid. <i>Industrial Crops and Products</i> , 2013, 45, 52-57.	2.5	22
98	Synergistic benefits of ionic liquid and alkaline pretreatments of poplar wood. Part 1: Effect of integrated pretreatment on enzymatic hydrolysis. <i>Bioresource Technology</i> , 2013, 144, 429-434.	4.8	34
99	Structural Elucidation of the Lignins from Stems and Foliage of <i>Arundo donax</i> Linn.. <i>Journal of Agricultural and Food Chemistry</i> , 2013, 61, 5361-5370.	2.4	99
100	Characterization of MWLs from <i>Tamarix ramosissima</i> isolated before and after hydrothermal treatment by spectroscopical and wet chemical methods. <i>Holzforschung</i> , 2012, 66, .	0.9	21
101	Unveiling the Structural Heterogeneity of Bamboo Lignin by In Situ HSQC NMR Technique. <i>Bioenergy Research</i> , 2012, 5, 886-903.	2.2	100
102	Structural Characterization of Lignin from Triploid of <i>Populus tomentosa</i> Carr.. <i>Journal of Agricultural and Food Chemistry</i> , 2011, 59, 6605-6615.	2.4	108
103	Characterization of Lignin Structures and Lignin-Carbohydrate Complex (LCC) Linkages by Quantitative <sup>13</sup> C and 2D HSQC NMR Spectroscopy. <i>Journal of Agricultural and Food Chemistry</i> , 2011, 59, 10604-10614.	2.4	483
104	Organosolv- and alkali-soluble hemicelluloses degraded from <i>Tamarix austromongolica</i> : Characterization of physicochemical, structural features and thermal stability. <i>Polymer Degradation and Stability</i> , 2011, 96, 1478-1488.	2.7	20
105	Isolation and physico-chemical characterization of lignins from ultrasound irradiated fast-growing poplar wood. <i>BioResources</i> , 2011, 6, 414-433.	0.5	48
106	Fractional Isolation and Chemical Structure of Hemicellulosic Polymers Obtained from <i>Bambusa rigida</i> Species. <i>Journal of Agricultural and Food Chemistry</i> , 2010, 58, 11372-11383.	2.4	46
107	Structural Characterization of Alkali-Extractable Lignin Fractions from Bamboo. <i>Journal of Biobased Materials and Bioenergy</i> , 2010, 4, 408-425.	0.1	52
108	Rapid homogeneous lauroylation of wheat straw hemicelluloses under mild conditions. <i>Carbohydrate Research</i> , 2008, 343, 2956-2962.	1.1	23

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109	Studies of the Lauroylation of Wheat Straw Hemicelluloses under Heating. Journal of Agricultural and Food Chemistry, 2008, 56, 1251-1258.	2.4	40
110	Comparative study of organosolv lignins from wheat straw. Industrial Crops and Products, 2006, 23, 180-193.	2.5	234