

# Yunqiao Pu

## List of Publications by Year in descending order

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173  
papers

12,260  
citations

18482

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29157

104  
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175  
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175  
docs citations

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times ranked

9979  
citing authors

#	ARTICLE	IF	CITATIONS
1	Opportunities and challenges for flow-through hydrothermal pretreatment in advanced biorefineries. <i>Bioresource Technology</i> , 2022, 343, 126061.	9.6	14
2	Cosolvent enhanced lignocellulosic fractionation tailoring lignin chemistry and enhancing lignin bioconversion. <i>Bioresource Technology</i> , 2022, 347, 126367.	9.6	14
3	Strikingly high amount of tricin-lignin observed from vanilla ( <i>Vanilla planifolia</i> ) aerial roots. <i>Green Chemistry</i> , 2022, 24, 259-270.	9.0	8
4	Preparation and characterization of aminated co-solvent enhanced lignocellulosic fractionation lignin as a renewable building block for the synthesis of non-isocyanate polyurethanes. <i>Industrial Crops and Products</i> , 2022, 178, 114579.	5.2	15
5	Bioenergy Underground: Challenges and opportunities for phenotyping roots and the microbiome for sustainable bioenergy crop production. <i>The Plant Phenome Journal</i> , 2022, 5, .	2.0	9
6	Enhancing Lignin Dispersion and Bioconversion by Eliminating Thermal Sterilization. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 3245-3254.	6.7	4
7	Hydrogen bond-induced aqueous-phase surface modification of nanocellulose and its mechanically strong composites. <i>Journal of Materials Science</i> , 2022, 57, 8127-8138.	3.7	4
8	Molecular Engineering of Biorefining Lignin Waste for Solid-State Electrolyte. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 8704-8714.	6.7	7
9	Chemical and Morphological Structure of Transgenic Switchgrass Organosolv Lignin Extracted by Ethanol, Tetrahydrofuran, and $\gamma$ -Valerolactone Pretreatments. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 9041-9052.	6.7	10
10	Influence of chain length in protic ionic liquids on physicochemical and structural features of lignins from sugarcane bagasse. <i>Industrial Crops and Products</i> , 2021, 159, 113080.	5.2	7
11	The physicochemical alteration of flax fibers structuring components after different scouring and bleaching treatments. <i>Industrial Crops and Products</i> , 2021, 160, 113112.	5.2	8
12	Synthesis and Characterization of Lignin-grafted-poly( $\mu$ -caprolactone) from Different Biomass Sources. <i>New Biotechnology</i> , 2021, 60, 189-199.	4.4	18
13	Double bonus: surfactant-assisted biomass pelleting benefits both the pelleting process and subsequent enzymatic saccharification of the pretreated pellets. <i>Green Chemistry</i> , 2021, 23, 1050-1061.	9.0	18
14	Enhancing the multi-functional properties of renewable lignin carbon fibers via defining the structure-property relationship using different biomass feedstocks. <i>Green Chemistry</i> , 2021, 23, 3725-3739.	9.0	33
15	Elucidating the mechanisms of enhanced lignin bioconversion by an alkali sterilization strategy. <i>Green Chemistry</i> , 2021, 23, 4697-4709.	9.0	20
16	Targeting hydroxycinnamoyl CoA: shikimate hydroxycinnamoyl transferase for lignin modification in <i>Brachypodium distachyon</i> . <i>Biotechnology for Biofuels</i> , 2021, 14, 50.	6.2	17
17	THF co-solvent pretreatment prevents lignin redeposition from interfering with enzymes yielding prolonged cellulase activity. <i>Biotechnology for Biofuels</i> , 2021, 14, 63.	6.2	21
18	Production of xylo-oligosaccharides from poplar by acetic acid pretreatment and its impact on inhibitory effect of poplar lignin. <i>Bioresource Technology</i> , 2021, 323, 124593.	9.6	27

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19	Fine grinding of thermoplastics by high speed friction grinding assisted by guar gum. <i>Journal of Applied Polymer Science</i> , 2021, 138, 50797.	2.6	2
20	Degradation of aromatic compounds and lignin by marine protist <i>Thraustochytrium striatum</i> . <i>Process Biochemistry</i> , 2021, 107, 13-17.	3.7	8
21	Engineered Sorghum Bagasse Enables a Sustainable Biorefinery with <i>p</i> -Hydroxybenzoic Acid-Based Deep Eutectic Solvent. <i>ChemSusChem</i> , 2021, 14, 5235-5244.	6.8	9
22	Critical review of FDM 3D printing of PLA biocomposites filled with biomass resources, characterization, biodegradability, upcycling and opportunities for biorefineries. <i>Applied Materials Today</i> , 2021, 24, 101078.	4.3	100
23	Recycled Cardboard Containers as a Low Energy Source for Cellulose Nanofibrils and Their Use in Poly( <i>l</i> -lactide) Nanocomposites. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 13460-13470.	6.7	14
24	Effects of different pelleting technologies and parameters on pretreatment and enzymatic saccharification of lignocellulosic biomass. <i>Renewable Energy</i> , 2021, 179, 2147-2157.	8.9	15
25	Effect of Protic Ionic Liquids in Sugar Cane Bagasse Pretreatment for Lignin Valorization and Ethanol Production. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 16965-16976.	6.7	7
26	Structural changes of lignins in natural <i>Populus</i> variants during different pretreatments. <i>Bioresource Technology</i> , 2020, 295, 122240.	9.6	61
27	Overexpression of a <i>Prefoldin 1</i> subunit gene reduces biomass recalcitrance in the bioenergy crop <i>Populus</i> . <i>Plant Biotechnology Journal</i> , 2020, 18, 859-871.	8.3	17
28	The critical role of lignin in lignocellulosic biomass conversion and recent pretreatment strategies: A comprehensive review. <i>Bioresource Technology</i> , 2020, 301, 122784.	9.6	396
29	Simultaneous depolymerization and fermentation of lignin into value-added products by the marine protist, <i>Thraustochytrium striatum</i> . <i>Algal Research</i> , 2020, 46, 101773.	4.6	6
30	Recent Advances in the Application of Functionalized Lignin in Value-Added Polymeric Materials. <i>Polymers</i> , 2020, 12, 2277.	4.5	65
31	Tensile properties of 3D-printed wood-filled PLA materials using poplar trees. <i>Applied Materials Today</i> , 2020, 21, 100832.	4.3	43
32	Effects of CELF Pretreatment Severity on Lignin Structure and the Lignin-Based Polyurethane Properties. <i>Frontiers in Energy Research</i> , 2020, 8, .	2.3	16
33	Deconstruction of biomass enabled by local demixing of cosolvents at cellulose and lignin surfaces. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 16776-16781.	7.1	29
34	Emerging Strategies for Modifying Lignin Chemistry to Enhance Biological Lignin Valorization. <i>ChemSusChem</i> , 2020, 13, 5423-5432.	6.8	28
35	Investigation of a Lignin-Based Deep Eutectic Solvent Using <i>p</i> -Hydroxybenzoic Acid for Efficient Woody Biomass Conversion. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 12542-12553.	6.7	83
36	<i>Arabidopsis</i> C-terminal binding protein <i>ANGUSTIFOLIA</i> modulates transcriptional co-regulation of <i>MYB46</i> and <i>WRKY33</i> . <i>New Phytologist</i> , 2020, 228, 1627-1639.	7.3	17

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37	Structural characterization of sugarcane lignins extracted from different protic ionic liquid pretreatments. <i>Renewable Energy</i> , 2020, 161, 579-592.	8.9	42
38	The effect of switchgrass plant cell wall properties on its deconstruction by thermochemical pretreatments coupled with fungal enzymatic hydrolysis or <i>Clostridium thermocellum</i> consolidated bioprocessing. <i>Green Chemistry</i> , 2020, 22, 7924-7945.	9.0	25
39	Transgenic Poplar Designed for Biofuels. <i>Trends in Plant Science</i> , 2020, 25, 881-896.	8.8	45
40	2D HSQC Chemical Shifts of Impurities from Biomass Pretreatment. <i>ChemistrySelect</i> , 2020, 5, 3359-3364.	1.5	1
41	Enhancing Enzyme-Mediated Hydrolysis of Mechanical Pulps by Deacetylation and Delignification. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 5847-5855.	6.7	13
42	A biomass pretreatment using cellulose-derived solvent Cyrene. <i>Green Chemistry</i> , 2020, 22, 2862-2872.	9.0	77
43	Natural deep eutectic solvent mediated extrusion for continuous high-solid pretreatment of lignocellulosic biomass. <i>Green Chemistry</i> , 2020, 22, 6372-6383.	9.0	58
44	Observation of Potential Contaminants in Processed Biomass Using Fourier Transform Infrared Spectroscopy. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 4345.	2.5	249
45	Synthesis, Characterization, and Utilization of a Lignin-Based Adsorbent for Effective Removal of Azo Dye from Aqueous Solution. <i>ACS Omega</i> , 2020, 5, 2865-2877.	3.5	91
46	The effect of lignin degradation products on the generation of pseudo-lignin during dilute acid pretreatment. <i>Industrial Crops and Products</i> , 2020, 146, 112205.	5.2	49
47	Lignin-derived electrochemical energy materials and systems. <i>Biofuels, Bioproducts and Biorefining</i> , 2020, 14, 650-672.	3.7	73
48	Effects of the advanced organosolv pretreatment strategies on structural properties of woody biomass. <i>Industrial Crops and Products</i> , 2020, 146, 112144.	5.2	103
49	Black Liquor Valorization by Using Marine Protist <i>Thraustochytrium striatum</i> and the Preliminary Metabolic Mechanism Study. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 1786-1796.	6.7	5
50	Mechanistic Insight into Lignin Slow Pyrolysis by Linking Pyrolysis Chemistry and Carbon Material Properties. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 15843-15854.	6.7	22
51	Determination of hydroxyl groups in biorefinery resources via quantitative <sup>31</sup> P NMR spectroscopy. <i>Nature Protocols</i> , 2019, 14, 2627-2647.	12.0	272
52	A Multifunctional Cosolvent Pair Reveals Molecular Principles of Biomass Deconstruction. <i>Journal of the American Chemical Society</i> , 2019, 141, 12545-12557.	18.7	73
53	Poplar as Biofiber Reinforcement in Composites for Large-Scale 3D Printing. <i>ACS Applied Bio Materials</i> , 2019, 2, 4557-4570.	4.6	52
54	Measurement of Physicochemical Properties of Lignin. <i>ACS Symposium Series</i> , 2019, , 33-47.	0.5	3

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55	Overexpression of a serine hydroxymethyltransferase increases biomass production and reduces recalcitrance in the bioenergy crop <i>Populus</i> . <i>Sustainable Energy and Fuels</i> , 2019, 3, 195-207.	4.9	27
56	Downregulation of pectin biosynthesis gene GAUT4 leads to reduced ferulate and lignin-carbohydrate cross-linking in switchgrass. <i>Communications Biology</i> , 2019, 2, 22.	4.4	35
57	Defining lignin nanoparticle properties through tailored lignin reactivity by sequential organosolv fragmentation approach (SOFA). <i>Green Chemistry</i> , 2019, 21, 245-260.	9.0	97
58	Mechanism-Guided Design of Highly Efficient Protein Secretion and Lipid Conversion for Biomanufacturing and Biorefining. <i>Advanced Science</i> , 2019, 6, 1801980.	11.2	51
59	Cellulolytic enzyme-aided extraction of hemicellulose from switchgrass and its characteristics. <i>Green Chemistry</i> , 2019, 21, 3902-3910.	9.0	34
60	Non-Solvent Fractionation of Lignin Enhances Carbon Fiber Performance. <i>ChemSusChem</i> , 2019, 12, 3249-3256.	6.8	20
61	Combining loss of function of FOLYLPOLYGLUTAMATE SYNTHETASE1 and CAFFEOYL-COA 3-O-METHYLTRANSFERASE1 for lignin reduction and improved saccharification efficiency in <i>Arabidopsis thaliana</i> . <i>Biotechnology for Biofuels</i> , 2019, 12, 108.	6.2	18
62	Cellulose hydrolysis by <i>Clostridium thermocellum</i> is agnostic to substrate structural properties in contrast to fungal cellulases. <i>Green Chemistry</i> , 2019, 21, 2810-2822.	9.0	10
63	A critical review on the analysis of lignin carbohydrate bonds. <i>Green Chemistry</i> , 2019, 21, 1573-1595.	9.0	204
64	PdWND3A, a wood-associated NAC domain-containing protein, affects lignin biosynthesis and composition in <i>Populus</i> . <i>BMC Plant Biology</i> , 2019, 19, 486.	3.6	28
65	From lignin to valuable products—strategies, challenges, and prospects. <i>Bioresource Technology</i> , 2019, 271, 449-461.	9.6	565
66	Hemicellulose-Cellulose Composites Reveal Differences in Cellulose Organization after Dilute Acid Pretreatment. <i>Biomacromolecules</i> , 2019, 20, 893-903.	5.4	21
67	Assessing the Facile Pretreatments of Bagasse for Efficient Enzymatic Conversion and Their Impacts on Structural and Chemical Properties. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 1095-1104.	6.7	63
68	Characterization of fractional cuts of co-solvent enhanced lignocellulosic fractionation lignin isolated by sequential precipitation. <i>Bioresource Technology</i> , 2019, 272, 202-208.	9.6	80
69	Inhibitory effects of lignin on enzymatic hydrolysis: The role of lignin chemistry and molecular weight. <i>Renewable Energy</i> , 2018, 123, 664-674.	8.9	121
70	Sugar release and growth of biofuel crops are improved by downregulation of pectin biosynthesis. <i>Nature Biotechnology</i> , 2018, 36, 249-257.	17.5	136
71	Understanding Lignin Fractionation and Characterization from Engineered Switchgrass Treated by an Aqueous Ionic Liquid. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 6612-6623.	6.7	56
72	Significance of Lignin S/G Ratio in Biomass Recalcitrance of <i>Populus trichocarpa</i> Variants for Bioethanol Production. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 2162-2168.	6.7	100

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73	The Nature of Hololignin. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 957-964.	6.7	23
74	Linking lignin source with structural and electrochemical properties of lignin-derived carbon materials. <i>RSC Advances</i> , 2018, 8, 38721-38732.	3.6	42
75	Fractionation and characterization of lignin streams from unique high-lignin content endocarp feedstocks. <i>Biotechnology for Biofuels</i> , 2018, 11, 304.	6.2	63
76	Porous artificial bone scaffold synthesized from a facile in situ hydroxyapatite coating and crosslinking reaction of crystalline nanocellulose. <i>Materialia</i> , 2018, 4, 237-246.	2.7	27
77	Insights of Ethanol Organosolv Pretreatment on Lignin Properties of <i>Broussonetia papyrifera</i> . <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 14767-14773.	6.7	49
78	Understanding the influences of different pretreatments on recalcitrance of <i>Populus</i> natural variants. <i>Bioresource Technology</i> , 2018, 265, 75-81.	9.6	20
79	Chemical Transformations of Poplar Lignin during Cosolvent Enhanced Lignocellulosic Fractionation Process. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 8711-8718.	6.7	99
80	Functional Analysis of Cellulose Synthase <i>CesA4</i> and <i>CesA6</i> Genes in Switchgrass ( <i>Panicum virgatum</i> ) by Overexpression and RNAi-Mediated Gene Silencing. <i>Frontiers in Plant Science</i> , 2018, 9, 1114.	3.6	34
81	Characteristics of Lignin Fractions from Dilute Acid Pretreated Switchgrass and Their Effect on Cellobiohydrolase from <i>Trichoderma longibrachiatum</i> . <i>Frontiers in Energy Research</i> , 2018, 6, .	2.3	36
82	Characterization of Whole Biomasses in Pyridine Based Ionic Liquid at Low Temperature by <sup>31</sup> P NMR: An Approach to Quantitatively Measure Hydroxyl Groups in Biomass As Their Original Structures. <i>Frontiers in Energy Research</i> , 2018, 6, .	2.3	14
83	A structured understanding of cellobiohydrolase I binding to poplar lignin fractions after dilute acid pretreatment. <i>Biotechnology for Biofuels</i> , 2018, 11, 96.	6.2	29
84	Hemicellulose characterization of deuterated switchgrass. <i>Bioresource Technology</i> , 2018, 269, 567-570.	9.6	20
85	Characterization and Catalytic Transfer Hydrogenolysis of Deep Eutectic Solvent Extracted Sorghum Lignin to Phenolic Compounds. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 10408-10420.	6.7	62
86	<sup>31</sup> P NMR Chemical Shifts of Solvents and Products Impurities in Biomass Pretreatments. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 1265-1270.	6.7	32
87	Overexpression of a Domain of Unknown Function 266-containing protein results in high cellulose content, reduced recalcitrance, and enhanced plant growth in the bioenergy crop <i>Populus</i> . <i>Biotechnology for Biofuels</i> , 2017, 10, 74.	6.2	22
88	<sup>31</sup> P NMR Characterization of Tricin and Its Structurally Similar Flavonoids. <i>ChemistrySelect</i> , 2017, 2, 3557-3561.	1.5	14
89	Effects of organosolv and ammonia pretreatments on lignin properties and its inhibition for enzymatic hydrolysis. <i>Green Chemistry</i> , 2017, 19, 2006-2016.	9.0	145
90	Ionic liquids: Promising green solvents for lignocellulosic biomass utilization. <i>Current Opinion in Green and Sustainable Chemistry</i> , 2017, 5, 5-11.	5.9	238

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91	Advanced Chemical Design for Efficient Lignin Bioconversion. ACS Sustainable Chemistry and Engineering, 2017, 5, 2215-2223.	6.7	75
92	Effects of Lignin Structure on Hydrodeoxygenation Reactivity of Pine Wood Lignin to Valuable Chemicals. ACS Sustainable Chemistry and Engineering, 2017, 5, 1824-1830.	6.7	90
93	Insights of biomass recalcitrance in natural <i>Populus trichocarpa</i> variants for biomass conversion. Green Chemistry, 2017, 19, 5467-5478.	9.0	82
94	Synergistic maximization of the carbohydrate output and lignin processability by combinatorial pretreatment. Green Chemistry, 2017, 19, 4939-4955.	9.0	116
95	Characterization of products from hydrothermal carbonization of pine. Bioresource Technology, 2017, 244, 78-83.	9.6	72
96	Effect of in Vivo Deuteration on Structure of Switchgrass Lignin. ACS Sustainable Chemistry and Engineering, 2017, 5, 8004-8010.	6.7	11
97	Adsorption of cellobiohydrolases I onto lignin fractions from dilute acid pretreated <i>Broussonetia papyrifera</i> . Bioresource Technology, 2017, 244, 957-962.	9.6	25
98	Lignin Exhibits Recalcitrance-Associated Features Following the Consolidated Bioprocessing of <i>Populus trichocarpa</i> Natural Variants. ChemistrySelect, 2017, 2, 10642-10647.	1.5	3
99	Study of traits and recalcitrance reduction of field-grown COMT down-regulated switchgrass. Biotechnology for Biofuels, 2017, 10, 12.	6.2	30
100	An In-Depth Understanding of Biomass Recalcitrance Using Natural Poplar Variants as the Feedstock. ChemSusChem, 2017, 10, 139-150.	6.8	106
101	Comparative evaluation of <i>Populus</i> variants total sugar release and structural features following pretreatment and digestion by two distinct biological systems. Biotechnology for Biofuels, 2017, 10, 292.	6.2	19
102	The effect of liquid hot water pretreatment on the chemical-structural alteration and the reduced recalcitrance in poplar. Biotechnology for Biofuels, 2017, 10, 237.	6.2	88
103	Adding tetrahydrofuran to dilute acid pretreatment provides new insights into substrate changes that greatly enhance biomass deconstruction by <i>Clostridium thermocellum</i> and fungal enzymes. Biotechnology for Biofuels, 2017, 10, 252.	6.2	43
104	Dynamic changes in transcriptome and cell wall composition underlying brassinosteroid-mediated lignification of switchgrass suspension cells. Biotechnology for Biofuels, 2017, 10, 266.	6.2	42
105	Defined tetra-allelic gene disruption of the 4-coumarate:coenzyme A ligase 1 (Pv4CL1) gene by CRISPR/Cas9 in switchgrass results in lignin reduction and improved sugar release. Biotechnology for Biofuels, 2017, 10, 284.	6.2	80
106	Current Understanding of the Correlation of Lignin Structure with Biomass Recalcitrance. Frontiers in Chemistry, 2016, 4, 45.	3.6	279
107	Systems biology-guided biodesign of consolidated lignin conversion. Green Chemistry, 2016, 18, 5536-5547.	9.0	119
108	Revealing the Molecular Structural Transformation of Hardwood and Softwood in Dilute Acid Flowthrough Pretreatment. ACS Sustainable Chemistry and Engineering, 2016, 4, 6618-6628.	6.7	38

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109	Physicochemical Structural Changes of Poplar and Switchgrass during Biomass Pretreatment and Enzymatic Hydrolysis. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 4563-4572.	6.7	73
110	Effect of torrefaction temperature on lignin macromolecule and product distribution from HZSM-5 catalytic pyrolysis. <i>Journal of Analytical and Applied Pyrolysis</i> , 2016, 122, 95-105.	5.5	57
111	Elucidating Structural Characteristics of Biomass using Solution <sup>2</sup> D NMR with a Mixture of Deuterated Dimethylsulfoxide and Hexamethylphosphoramide. <i>ChemSusChem</i> , 2016, 9, 1090-1095.	6.8	59
112	Physical and chemical differences between one-stage and two-stage hydrothermal pretreated hardwood substrates for use in cellulosic ethanol production. <i>Biotechnology for Biofuels</i> , 2016, 9, 30.	6.2	14
113	A study of poplar organosolv lignin after melt rheology treatment as carbon fiber precursors. <i>Green Chemistry</i> , 2016, 18, 5015-5024.	9.0	85
114	Comparative study of lignin characteristics from wheat straw obtained by soda-AQ and kraft pretreatment and effect on the following enzymatic hydrolysis process. <i>Bioresource Technology</i> , 2016, 207, 361-369.	9.6	71
115	The occurrence of triclin and its derivatives in plants. <i>Green Chemistry</i> , 2016, 18, 1439-1454.	9.0	77
116	Physicochemical Characterization of Lignocellulosic Biomass Dissolution by Flowthrough Pretreatment. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 219-227.	6.7	25
117	Synergistic enzymatic and microbial lignin conversion. <i>Green Chemistry</i> , 2016, 18, 1306-1312.	9.0	172
118	Structural Transformation of Isolated Poplar and Switchgrass Lignins during Dilute Acid Treatment. <i>ACS Sustainable Chemistry and Engineering</i> , 2015, 3, 2203-2210.	6.7	35
119	Lignin Structural Alterations in Thermochemical Pretreatments with Limited Delignification. <i>Bioenergy Research</i> , 2015, 8, 992-1003.	3.9	69
120	Effect of torrefaction on biomass structure and hydrocarbon production from fast pyrolysis. <i>Green Chemistry</i> , 2015, 17, 2406-2417.	9.0	112
121	Vibrational spectral signatures of crystalline cellulose using high resolution broadband sum frequency generation vibrational spectroscopy (HR-BB-SFG-VS). <i>Cellulose</i> , 2015, 22, 1469-1484.	4.9	17
122	Pinoresinol reductase 1 impacts lignin distribution during secondary cell wall biosynthesis in <i>Arabidopsis</i> . <i>Phytochemistry</i> , 2015, 112, 170-178.	2.9	31
123	Structural Characterization of Lignin in Wild-Type versus COMT Down-Regulated Switchgrass. <i>Frontiers in Energy Research</i> , 2014, 1, .	2.3	22
124	The use of combination of zeolites to pursue integrated refined pyrolysis oil from kraft lignin. <i>Sustainable Chemical Processes</i> , 2014, 2, .	2.3	8
125	Investigation of lignin deposition on cellulose during hydrothermal pretreatment, its effect on cellulose hydrolysis, and underlying mechanisms. <i>Biotechnology and Bioengineering</i> , 2014, 111, 485-492.	3.3	214
126	High Shear Homogenization of Lignin to Nanolignin and Thermal Stability of Nanolignin <sup>2</sup> Polyvinyl Alcohol Blends. <i>ChemSusChem</i> , 2014, 7, 3513-3520.	6.8	199



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127	19F NMR spectroscopy for the quantitative analysis of carbonyl groups in bio-oils. RSC Advances, 2014, 4, 17743.	3.6	24
128	Preparation and characteristics of cellulose nanowhisker reinforced acrylic foams synthesized by freeze-casting. RSC Advances, 2014, 4, 12148.	3.6	14
129	Comparison of changes in cellulose ultrastructure during different pretreatments of poplar. Cellulose, 2014, 21, 2419-2431.	4.9	47
130	Preparation of aligned porous chitin nanowhisker foams by directional freeze-casting technique. Carbohydrate Polymers, 2014, 112, 277-283.	10.2	53
131	Changes in Cell Wall Properties Coincide with Overexpression of Extensin Fusion Proteins in Suspension Cultured Tobacco Cells. PLoS ONE, 2014, 9, e115906.	2.5	9
132	Enhanced characteristics of genetically modified switchgrass ( <i>Panicum virgatum</i> L.) for high biofuel production. Biotechnology for Biofuels, 2013, 6, 71.	6.2	118
133	Assessing the molecular structure basis for biomass recalcitrance during dilute acid and hydrothermal pretreatments. Biotechnology for Biofuels, 2013, 6, 15.	6.2	468
134	Compositional Characterization and Pyrolysis of Loblolly Pine and Douglas-fir Bark. Bioenergy Research, 2013, 6, 24-34.	3.9	32
135	Freeze-casting of cellulose nanowhisker foams prepared from a water-dimethylsulfoxide (DMSO) binary mixture at low DMSO concentrations. RSC Advances, 2013, 3, 19272.	3.6	26
136	Hydrodeoxygenation by deuterium gas – a powerful way to provide insight into the reaction mechanisms. Physical Chemistry Chemical Physics, 2013, 15, 19138.	2.8	13
137	Biodiesel from grease interceptor to gas tank. Energy Science and Engineering, 2013, 1, 42-52.	4.0	25
138	Investigation of the fate of poplar lignin during autohydrolysis pretreatment to understand the biomass recalcitrance. RSC Advances, 2013, 3, 5305.	3.6	72
139	A Genomics Approach to Deciphering Lignin Biosynthesis in Switchgrass. Plant Cell, 2013, 25, 4342-4361.	6.6	109
140	Chemical transformations of <i>Populus trichocarpa</i> during dilute acid pretreatment. RSC Advances, 2012, 2, 10925.	3.6	138
141	Structural characterization of alkaline hydrogen peroxide pretreated grasses exhibiting diverse lignin phenotypes. Biotechnology for Biofuels, 2012, 5, 38.	6.2	106
142	Down-regulation of the caffeic acid O-methyltransferase gene in switchgrass reveals a novel monolignol analog. Biotechnology for Biofuels, 2012, 5, 71.	6.2	96
143	A Novel Oxidative Pretreatment of Loblolly Pine, Sweetgum, and Miscanthus by Ozone. Journal of Wood Chemistry and Technology, 2012, 32, 361-375.	1.7	22
144	Structural Characterization of Switchgrass Lignin after Ethanol Organosolv Pretreatment. Energy & Fuels, 2012, 26, 740-745.	5.1	127

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145	Study on the modification of bleached eucalyptus kraft pulp using birch xylan. Carbohydrate Polymers, 2012, 88, 719-725.	10.2	27
146	Application of quantitative <sup>31</sup> P NMR in biomass lignin and biofuel precursors characterization. Energy and Environmental Science, 2011, 4, 3154.	30.8	447
147	Challenges of the utilization of wood polymers: how can they be overcome?. Applied Microbiology and Biotechnology, 2011, 91, 1525-1536.	3.6	52
148	Comparison of microwaves to fluidized sand baths for heating tubular reactors for hydrothermal and dilute acid batch pretreatment of corn stover. Bioresource Technology, 2011, 102, 5952-5961.	9.6	54
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