# Yunqiao Pu

List of Publications by Year
in descending order



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|---|---|---|---|
| 173 papers | 12,260 citations | 18436 62 h-index | 29081 104 g-index |
| 175 all docs | 175 docs citations | 175 times ranked | 9979 citing authors |

| # | ARTICLE | IF | CITATIONS |
|---|---|---|---|
| 1 | Opportunities and challenges for flow-through hydrothermal pretreatment in advanced biorefineries. Bioresource Technology, 2022, 343, 126061. | 4.8 | 14 |
| 2 | Cosolvent enhanced lignocellulosic fractionation tailoring lignin chemistry and enhancing lignin bioconversion. Bioresource Technology, 2022, 347, 126367. | 4.8 | 14 |
| 3 | Strikingly high amount of tricin-lignin observed from vanilla (<i>Vanilla planifolia</i>) aerial roots. Green Chemistry, 2022, 24, 259-270. | 4.6 | 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. Industrial Crops and Products, 2022, 178, 114579. | 2.5 | 15 |
| 5 | Bioenergy Underground: Challenges and opportunities for phenotyping roots and the microbiome for sustainable bioenergy crop production. The Plant Phenome Journal, 2022, 5, . | 1.0 | 9 |
| 6 | Enhancing Lignin Dispersion and Bioconversion by Eliminating Thermal Sterilization. ACS Sustainable Chemistry and Engineering, 2022, 10, 3245-3254. | 3.2 | 4 |
| 7 | Hydrogen bondâ€“induced aqueous-phase surface modification of nanocellulose and its mechanically strong composites. Journal of Materials Science, 2022, 57, 8127-8138. | 1.7 | 4 |
| 8 | Molecular Engineering of Biorefining Lignin Waste for Solid-State Electrolyte. ACS Sustainable Chemistry and Engineering, 2022, 10, 8704-8714. | 3.2 | 7 |
| 9 | Chemical and Morphological Structure of Transgenic Switchgrass Organosolv Lignin Extracted by Ethanol, Tetrahydrofuran, and Î³-Valerolactone Pretreatments. ACS Sustainable Chemistry and Engineering, 2022, 10, 9041-9052. | 3.2 | 10 |
| 10 | Influence of chain length in protic ionic liquids on physicochemical and structural features of lignins from sugarcane bagasse. Industrial Crops and Products, 2021, 159, 113080. | 2.5 | 7 |
| 11 | The physiochemical alteration of flax fibers structuring components after different scouring and bleaching treatments. Industrial Crops and Products, 2021, 160, 113112. | 2.5 | 8 |
| 12 | Synthesis and Characterization of Lignin-grafted-poly(Îµ-caprolactone) from Different Biomass Sources. New Biotechnology, 2021, 60, 189-199. | 2.4 | 18 |
| 13 | Double bonus: surfactant-assisted biomass pelleting benefits both the pelleting process and subsequent enzymatic saccharification of the pretreated pellets. Green Chemistry, 2021, 23, 1050-1061. | 4.6 | 18 |
| 14 | Enhancing the multi-functional properties of renewable lignin carbon fibers <i>via</i> defining the structureâ€“property relationship using different biomass feedstocks. Green Chemistry, 2021, 23, 3725-3739. | 4.6 | 33 |
| 15 | Elucidating the mechanisms of enhanced lignin bioconversion by an alkali sterilization strategy. Green Chemistry, 2021, 23, 4697-4709. | 4.6 | 20 |
| 16 | Targeting hydroxycinnamoyl CoA: shikimate hydroxycinnamoyl transferase for lignin modification in Brachypodium distachyon. Biotechnology for Biofuels, 2021, 14, 50. | 6.2 | 17 |
| 17 | THF co-solvent pretreatment prevents lignin redeposition from interfering with enzymes yielding prolonged cellulase activity. Biotechnology for Biofuels, 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. Bioresource Technology, 2021, 323, 124593. | 4.8 | 27 |

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| 19 | Fine grinding of thermoplastics by high speed friction grinding assisted by guar gum. Journal of Applied Polymer Science, 2021, 138, 50797. | 1.3 | 2 |
| 20 | Degradation of aromatic compounds and lignin by marine protist Thraustochytrium striatum. Process Biochemistry, 2021, 107, 13-17. | 1.8 | 8 |
| 21 | Engineered Sorghum Bagasse Enables a Sustainable Biorefinery with <i>p</i>â€Hydroxybenzoic Acidâ€Based Deep Eutectic Solvent. ChemSusChem, 2021, 14, 5235-5244. | 3.6 | 9 |
| 22 | Critical review of FDM 3D printing of PLA biocomposites filled with biomass resources, characterization, biodegradability, upcycling and opportunities for biorefineries. Applied Materials Today, 2021, 24, 101078. | 2.3 | 100 |
| 23 | Recycled Cardboard Containers as a Low Energy Source for Cellulose Nanofibrils and Their Use in Poly(<scp>l</scp>-lactide) Nanocomposites. ACS Sustainable Chemistry and Engineering, 2021, 9, 13460-13470. | 3.2 | 14 |
| 24 | Effects of different pelleting technologies and parameters on pretreatment and enzymatic saccharification of lignocellulosic biomass. Renewable Energy, 2021, 179, 2147-2157. | 4.3 | 15 |
| 25 | Effect of Protic Ionic Liquids in Sugar Cane Bagasse Pretreatment for Lignin Valorization and Ethanol Production. ACS Sustainable Chemistry and Engineering, 2021, 9, 16965-16976. | 3.2 | 7 |
| 26 | Structural changes of lignins in natural Populus variants during different pretreatments. Bioresource Technology, 2020, 295, 122240. | 4.8 | 61 |
| 27 | Overexpression of a <i>Prefoldin Î²</i> subunit gene reduces biomass recalcitrance in the bioenergy crop <i>Populus</i>. Plant Biotechnology Journal, 2020, 18, 859-871. | 4.1 | 17 |
| 28 | The critical role of lignin in lignocellulosic biomass conversion and recent pretreatment strategies: A comprehensive review. Bioresource Technology, 2020, 301, 122784. | 4.8 | 396 |
| 29 | Simultaneous depolymerization and fermentation of lignin into value-added products by the marine protist, Thraustochytrium striatum. Algal Research, 2020, 46, 101773. | 2.4 | 6 |
| 30 | Recent Advances in the Application of Functionalized Lignin in Value-Added Polymeric Materials. Polymers, 2020, 12, 2277. | 2.0 | 65 |
| 31 | Tensile properties of 3D-printed wood-filled PLA materials using poplar trees. Applied Materials Today, 2020, 21, 100832. | 2.3 | 43 |
| 32 | Effects of CELF Pretreatment Severity on Lignin Structure and the Lignin-Based Polyurethane Properties. Frontiers in Energy Research, 2020, 8, . | 1.2 | 16 |
| 33 | Deconstruction of biomass enabled by local demixing of cosolvents at cellulose and lignin surfaces. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 16776-16781. | 3.3 | 29 |
| 34 | Emerging Strategies for Modifying Lignin Chemistry to Enhance Biological Lignin Valorization. ChemSusChem, 2020, 13, 5423-5432. | 3.6 | 28 |
| 35 | Investigation of a Lignin-Based Deep Eutectic Solvent Using <i>p</i>-Hydroxybenzoic Acid for Efficient Woody Biomass Conversion. ACS Sustainable Chemistry and Engineering, 2020, 8, 12542-12553. | 3.2 | 83 |
| 36 | Arabidopsis Câ€terminal binding protein ANGUSTIFOLIA modulates transcriptional coâ€regulation of <i>MYB46</i> and <i>WRKY33</i>. New Phytologist, 2020, 228, 1627-1639. | 3.5 | 17 |

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| 37 | Structural characterization of sugarcane lignins extracted from different protic ionic liquid pretreatments. Renewable Energy, 2020, 161, 579-592. | 4.3 | 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. Green Chemistry, 2020, 22, 7924-7945. | 4.6 | 25 |
| 39 | Transgenic Poplar Designed for Biofuels. Trends in Plant Science, 2020, 25, 881-896. | 4.3 | 45 |
| 40 | 2D HSQC Chemical Shifts of Impurities from Biomass Pretreatment. ChemistrySelect, 2020, 5, 3359-3364. | 0.7 | 1 |
| 41 | Enhancing Enzyme-Mediated Hydrolysis of Mechanical Pulps by Deacetylation and Delignification. ACS Sustainable Chemistry and Engineering, 2020, 8, 5847-5855. | 3.2 | 13 |
| 42 | A biomass pretreatment using cellulose-derived solvent Cyrene. Green Chemistry, 2020, 22, 2862-2872. | 4.6 | 77 |
| 43 | Natural deep eutectic solvent mediated extrusion for continuous high-solid pretreatment of lignocellulosic biomass. Green Chemistry, 2020, 22, 6372-6383. | 4.6 | 58 |
| 44 | Observation of Potential Contaminants in Processed Biomass Using Fourier Transform Infrared Spectroscopy. Applied Sciences (Switzerland), 2020, 10, 4345. | 1.3 | 249 |
| 45 | Synthesis, Characterization, and Utilization of a Lignin-Based Adsorbent for Effective Removal of Azo Dye from Aqueous Solution. ACS Omega, 2020, 5, 2865-2877. | 1.6 | 91 |
| 46 | The effect of lignin degradation products on the generation of pseudo-lignin during dilute acid pretreatment. Industrial Crops and Products, 2020, 146, 112205. | 2.5 | 49 |
| 47 | Ligninâ€derived electrochemical energy materials and systems. Biofuels, Bioproducts and Biorefining, 2020, 14, 650-672. | 1.9 | 73 |
| 48 | Effects of the advanced organosolv pretreatment strategies on structural properties of woody biomass. Industrial Crops and Products, 2020, 146, 112144. | 2.5 | 103 |
| 49 | Black Liquor Valorization by Using Marine Protist Thraustochytrium striatum and the Preliminary Metabolic Mechanism Study. ACS Sustainable Chemistry and Engineering, 2020, 8, 1786-1796. | 3.2 | 5 |
| 50 | Mechanistic Insight into Lignin Slow Pyrolysis by Linking Pyrolysis Chemistry and Carbon Material Properties. ACS Sustainable Chemistry and Engineering, 2020, 8, 15843-15854. | 3.2 | 22 |
| 51 | Determination of hydroxyl groups in biorefinery resources via quantitative 31P NMR spectroscopy. Nature Protocols, 2019, 14, 2627-2647. | 5.5 | 272 |
| 52 | A Multifunctional Cosolvent Pair Reveals Molecular Principles of Biomass Deconstruction. Journal of the American Chemical Society, 2019, 141, 12545-12557. | 6.6 | 73 |
| 53 | Poplar as Biofiber Reinforcement in Composites for Large-Scale 3D Printing. ACS Applied Bio Materials, 2019, 2, 4557-4570. | 2.3 | 52 |
| 54 | Measurement of Physicochemical Properties of Lignin. ACS Symposium Series, 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>. Sustainable Energy and Fuels, 2019, 3, 195-207. | 2.5 | 27 |
| 56 | Downregulation of pectin biosynthesis gene GAUT4 leads to reduced ferulate and lignin-carbohydrate cross-linking in switchgrass. Communications Biology, 2019, 2, 22. | 2.0 | 35 |
| 57 | Defining lignin nanoparticle properties through tailored lignin reactivity by sequential organosolv fragmentation approach (SOFA). Green Chemistry, 2019, 21, 245-260. | 4.6 | 97 |
| 58 | Mechanismâ€Guided Design of Highly Efficient Protein Secretion and Lipid Conversion for Biomanufacturing and Biorefining. Advanced Science, 2019, 6, 1801980. | 5.6 | 51 |
| 59 | Cellulolytic enzyme-aided extraction of hemicellulose from switchgrass and its characteristics. Green Chemistry, 2019, 21, 3902-3910. | 4.6 | 34 |
| 60 | Nonâ€Solvent Fractionation of Lignin Enhances Carbon Fiber Performance. ChemSusChem, 2019, 12, 3249-3256. | 3.6 | 20 |
| 61 | Combining loss of function of FOLYLPOLYGLUTAMATE SYNTHETASE1 and CAFFEOYL-COA 3-O-METHYLTRANSFERASE1 for lignin reduction and improved saccharification efficiency in Arabidopsis thaliana. Biotechnology for Biofuels, 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. Green Chemistry, 2019, 21, 2810-2822. | 4.6 | 10 |
| 63 | A critical review on the analysis of lignin carbohydrate bonds. Green Chemistry, 2019, 21, 1573-1595. | 4.6 | 204 |
| 64 | PdWND3A, a wood-associated NAC domain-containing protein, affects lignin biosynthesis and composition in Populus. BMC Plant Biology, 2019, 19, 486. | 1.6 | 28 |
| 65 | From lignin to valuable productsâ€“strategies, challenges, and prospects. Bioresource Technology, 2019, 271, 449-461. | 4.8 | 565 |
| 66 | Hemicelluloseâ€“Cellulose Composites Reveal Differences in Cellulose Organization after Dilute Acid Pretreatment. Biomacromolecules, 2019, 20, 893-903. | 2.6 | 21 |
| 67 | Assessing the Facile Pretreatments of Bagasse for Efficient Enzymatic Conversion and Their Impacts on Structural and Chemical Properties. ACS Sustainable Chemistry and Engineering, 2019, 7, 1095-1104. | 3.2 | 63 |
| 68 | Characterization of fractional cuts of co-solvent enhanced lignocellulosic fractionation lignin isolated by sequential precipitation. Bioresource Technology, 2019, 272, 202-208. | 4.8 | 80 |
| 69 | Inhibitory effects of lignin on enzymatic hydrolysis: The role of lignin chemistry and molecular weight. Renewable Energy, 2018, 123, 664-674. | 4.3 | 121 |
| 70 | Sugar release and growth of biofuel crops are improved by downregulation of pectin biosynthesis. Nature Biotechnology, 2018, 36, 249-257. | 9.4 | 136 |
| 71 | Understanding Lignin Fractionation and Characterization from Engineered Switchgrass Treated by an Aqueous Ionic Liquid. ACS Sustainable Chemistry and Engineering, 2018, 6, 6612-6623. | 3.2 | 56 |
| 72 | Significance of Lignin S/G Ratio in Biomass Recalcitrance of <i>Populus trichocarpa</i> Variants for Bioethanol Production. ACS Sustainable Chemistry and Engineering, 2018, 6, 2162-2168. | 3.2 | 100 |

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| 73 | The Nature of Hololignin. ACS Sustainable Chemistry and Engineering, 2018, 6, 957-964. | 3.2 | 23 |
| 74 | Linking lignin source with structural and electrochemical properties of lignin-derived carbon materials. RSC Advances, 2018, 8, 38721-38732. | 1.7 | 42 |
| 75 | Fractionation and characterization of lignin streams from unique high-lignin content endocarp feedstocks. Biotechnology for Biofuels, 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. Materialia, 2018, 4, 237-246. | 1.3 | 27 |
| 77 | Insights of Ethanol Organosolv Pretreatment on Lignin Properties of <i>Broussonetia papyrifera</i>. ACS Sustainable Chemistry and Engineering, 2018, 6, 14767-14773. | 3.2 | 49 |
| 78 | Understanding the influences of different pretreatments on recalcitrance of Populus natural variants. Bioresource Technology, 2018, 265, 75-81. | 4.8 | 20 |
| 79 | Chemical Transformations of Poplar Lignin during Cosolvent Enhanced Lignocellulosic Fractionation Process. ACS Sustainable Chemistry and Engineering, 2018, 6, 8711-8718. | 3.2 | 99 |
| 80 | Functional Analysis of Cellulose Synthase CesA4 and CesA6 Genes in Switchgrass (Panicum virgatum) by Overexpression and RNAi-Mediated Gene Silencing. Frontiers in Plant Science, 2018, 9, 1114. | 1.7 | 34 |
| 81 | Characteristics of Lignin Fractions from Dilute Acid Pretreated Switchgrass and Their Effect on Cellobiohydrolase from Trichoderma longibrachiatum. Frontiers in Energy Research, 2018, 6, . | 1.2 | 36 |
| 82 | Characterization of Whole Biomasses in Pyridine Based Ionic Liquid at Low Temperature by 31P NMR: An Approach to Quantitatively Measure Hydroxyl Groups in Biomass As Their Original Structures. Frontiers in Energy Research, 2018, 6, . | 1.2 | 14 |
| 83 | A structured understanding of cellobiohydrolase I binding to poplar lignin fractions after dilute acid pretreatment. Biotechnology for Biofuels, 2018, 11, 96. | 6.2 | 29 |
| 84 | Hemicellulose characterization of deuterated switchgrass. Bioresource Technology, 2018, 269, 567-570. | 4.8 | 20 |
| 85 | Characterization and Catalytic Transfer Hydrogenolysis of Deep Eutectic Solvent Extracted Sorghum Lignin to Phenolic Compounds. ACS Sustainable Chemistry and Engineering, 2018, 6, 10408-10420. | 3.2 | 62 |
| 86 | <sup>31</sup>P NMR Chemical Shifts of Solvents and Products Impurities in Biomass Pretreatments. ACS Sustainable Chemistry and Engineering, 2018, 6, 1265-1270. | 3.2 | 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 Populus. Biotechnology for Biofuels, 2017, 10, 74. | 6.2 | 22 |
| 88 | <sup>31</sup>Pâ€‰NMR Characterization of Tricin and Its Structurally Similar Flavonoids. ChemistrySelect, 2017, 2, 3557-3561. | 0.7 | 14 |
| 89 | Effects of organosolv and ammonia pretreatments on lignin properties and its inhibition for enzymatic hydrolysis. Green Chemistry, 2017, 19, 2006-2016. | 4.6 | 145 |
| 90 | Ionic liquids: Promising green solvents for lignocellulosic biomass utilization. Current Opinion in Green and Sustainable Chemistry, 2017, 5, 5-11. | 3.2 | 238 |

| # | Article | IF | Citations |
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| 91 | Advanced Chemical Design for Efficient Lignin Bioconversion. ACS Sustainable Chemistry and Engineering, 2017, 5, 2215-2223. | 3.2 | 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. | 3.2 | 90 |
| 93 | Insights of biomass recalcitrance in natural <i>Populus trichocarpa</i> variants for biomass conversion. Green Chemistry, 2017, 19, 5467-5478. | 4.6 | 82 |
| 94 | Synergistic maximization of the carbohydrate output and lignin processability by combinatorial pretreatment. Green Chemistry, 2017, 19, 4939-4955. | 4.6 | 116 |
| 95 | Characterization of products from hydrothermal carbonization of pine. Bioresource Technology, 2017, 244, 78-83. | 4.8 | 72 |
| 96 | Effect of in Vivo Deuteration on Structure of Switchgrass Lignin. ACS Sustainable Chemistry and Engineering, 2017, 5, 8004-8010. | 3.2 | 11 |
| 97 | Adsorption of cellobiohydrolases I onto lignin fractions from dilute acid pretreated Broussonetia papyrifera. Bioresource Technology, 2017, 244, 957-962. | 4.8 | 25 |
| 98 | Lignin Exhibits Recalcitranceâ€Associated Features Following the Consolidated Bioprocessing of Populus trichocarpa Natural Variants. ChemistrySelect, 2017, 2, 10642-10647. | 0.7 | 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 Inâ€Depth Understanding of Biomass Recalcitrance Using Natural Poplar Variants as the Feedstock. ChemSusChem, 2017, 10, 139-150. | 3.6 | 106 |
| 101 | Comparative evaluation of Populus 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 chemicalâ€“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 Clostridium thermocellum 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. | 1.8 | 279 |
| 107 | Systems biology-guided biodesign of consolidated lignin conversion. Green Chemistry, 2016, 18, 5536-5547. | 4.6 | 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. | 3.2 | 38 |

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| 109 | Physicochemical Structural Changes of Poplar and Switchgrass during Biomass Pretreatment and Enzymatic Hydrolysis. ACS Sustainable Chemistry and Engineering, 2016, 4, 4563-4572. | 3.2 | 73 |
| 110 | Effect of torrefaction temperature on lignin macromolecule and product distribution from HZSM-5 catalytic pyrolysis. Journal of Analytical and Applied Pyrolysis, 2016, 122, 95-105. | 2.6 | 57 |
| 111 | Elucidating Structural Characteristics of Biomass using Solutionâ€State 2â€‰D NMR with a Mixture of Deuterated Dimethylsulfoxide and Hexamethylphosphoramide. ChemSusChem, 2016, 9, 1090-1095. | 3.6 | 59 |
| 112 | Physical and chemical differences between one-stage and two-stage hydrothermal pretreated hardwood substrates for use in cellulosic ethanol production. Biotechnology for Biofuels, 2016, 9, 30. | 6.2 | 14 |
| 113 | A study of poplar organosolv lignin after melt rheology treatment as carbon fiber precursors. Green Chemistry, 2016, 18, 5015-5024. | 4.6 | 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. Bioresource Technology, 2016, 207, 361-369. | 4.8 | 71 |
| 115 | The occurrence of tricin and its derivatives in plants. Green Chemistry, 2016, 18, 1439-1454. | 4.6 | 77 |
| 116 | Physiochemical Characterization of Lignocellulosic Biomass Dissolution by Flowthrough Pretreatment. ACS Sustainable Chemistry and Engineering, 2016, 4, 219-227. | 3.2 | 25 |
| 117 | Synergistic enzymatic and microbial lignin conversion. Green Chemistry, 2016, 18, 1306-1312. | 4.6 | 172 |
| 118 | Structural Transformation of Isolated Poplar and Switchgrass Lignins during Dilute Acid Treatment. ACS Sustainable Chemistry and Engineering, 2015, 3, 2203-2210. | 3.2 | 35 |
| 119 | Lignin Structural Alterations in Thermochemical Pretreatments with Limited Delignification. Bioenergy Research, 2015, 8, 992-1003. | 2.2 | 69 |
| 120 | Effect of torrefaction on biomass structure and hydrocarbon production from fast pyrolysis. Green Chemistry, 2015, 17, 2406-2417. | 4.6 | 112 |
| 121 | Vibrational spectral signatures of crystalline cellulose using high resolution broadband sum frequency generation vibrational spectroscopy (HR-BB-SFG-VS). Cellulose, 2015, 22, 1469-1484. | 2.4 | 17 |
| 122 | Pinoresinol reductase 1 impacts lignin distribution during secondary cell wall biosynthesis in Arabidopsis. Phytochemistry, 2015, 112, 170-178. | 1.4 | 31 |
| 123 | Structural Characterization of Lignin in Wild-Type versus COMT Down-Regulated Switchgrass. Frontiers in Energy Research, 2014, 1, . | 1.2 | 22 |
| 124 | The use of combination of zeolites to pursue integrated refined pyrolysis oil from kraft lignin. Sustainable Chemical Processes, 2014, 2, . | 2.3 | 8 |
| 125 | Investigation of lignin deposition on cellulose during hydrothermal pretreatment, its effect on cellulose hydrolysis, and underlying mechanisms. Biotechnology and Bioengineering, 2014, 111, 485-492. | 1.7 | 214 |
| 126 | High Shear Homogenization of Lignin to Nanolignin and Thermal Stability of Nanoligninâ€Polyvinyl Alcohol Blends. ChemSusChem, 2014, 7, 3513-3520. | 3.6 | 199 |

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| 127 | 19F NMR spectroscopy for the quantitative analysis of carbonyl groups in bio-oils. RSC Advances, 2014, 4, 17743. | 1.7 | 24 |
| 128 | Preparation and characteristics of cellulose nanowhisker reinforced acrylic foams synthesized by freeze-casting. RSC Advances, 2014, 4, 12148. | 1.7 | 14 |
| 129 | Comparison of changes in cellulose ultrastructure during different pretreatments of poplar. Cellulose, 2014, 21, 2419-2431. | 2.4 | 47 |
| 130 | Preparation of aligned porous chitin nanowhisker foams by directional freezeâ€“casting technique. Carbohydrate Polymers, 2014, 112, 277-283. | 5.1 | 53 |
| 131 | Changes in Cell Wall Properties Coincide with Overexpression of Extensin Fusion Proteins in Suspension Cultured Tobacco Cells. PLoS ONE, 2014, 9, e115906. | 1.1 | 9 |
| 132 | Enhanced characteristics of genetically modified switchgrass (Panicum virgatum 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. | 2.2 | 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. | 1.7 | 26 |
| 136 | Hydrodeoxygenation by deuterium gas â€“ a powerful way to provide insight into the reaction mechanisms. Physical Chemistry Chemical Physics, 2013, 15, 19138. | 1.3 | 13 |
| 137 | Biodiesel from grease interceptor to gas tank. Energy Science and Engineering, 2013, 1, 42-52. | 1.9 | 25 |
| 138 | Investigation of the fate of poplar lignin during autohydrolysis pretreatment to understand the biomass recalcitrance. RSC Advances, 2013, 3, 5305. | 1.7 | 72 |
| 139 | A Genomics Approach to Deciphering Lignin Biosynthesis in Switchgrass. Plant Cell, 2013, 25, 4342-4361. | 3.1 | 109 |
| 140 | Chemical transformations of Populus trichocarpa during dilute acid pretreatment. RSC Advances, 2012, 2, 10925. | 1.7 | 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. | 0.9 | 22 |
| 144 | Structural Characterization of Switchgrass Lignin after Ethanol Organosolv Pretreatment. Energy & Fuels, 2012, 26, 740-745. | 2.5 | 127 |

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| 145 | Study on the modification of bleached eucalyptus kraft pulp using birch xylan. Carbohydrate Polymers, 2012, 88, 719-725. | 5.1 | 27 |
| 146 | Application of quantitative 31P NMR in biomass lignin and biofuel precursors characterization. Energy and Environmental Science, 2011, 4, 3154. | 15.6 | 447 |
| 147 | Challenges of the utilization of wood polymers: how can they be overcome?. Applied Microbiology and Biotechnology, 2011, 91, 1525-1536. | 1.7 | 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. | 4.8 | 54 |
| 149 | Structural Characterization and Comparison of Switchgrass Ball-milled Lignin Before and After Dilute Acid Pretreatment. Applied Biochemistry and Biotechnology, 2010, 162, 62-74. | 1.4 | 227 |
| 150 | Rapid Determination of Lignin Content via Direct Dissolution and <sup>1</sup>Hâ€‰NMR Analysis of Plant Cell Walls. ChemSusChem, 2010, 3, 1285-1289. | 3.6 | 26 |
| 151 | Chemical compositions of four switchgrass populations. Biomass and Bioenergy, 2010, 34, 48-53. | 2.9 | 63 |
| 152 | Cellulosic biorefineriesâ€"unleashing lignin opportunities. Current Opinion in Environmental Sustainability, 2010, 2, 383-393. | 3.1 | 134 |
| 153 | Increase in 4-Coumaryl Alcohol Units during Lignification in Alfalfa (Medicago sativa) Alters the Extractability and Molecular Weight of Lignin. Journal of Biological Chemistry, 2010, 285, 38961-38968. | 1.6 | 102 |
| 154 | Effect of Ethanol Organosolv Pretreatment on Enzymatic Hydrolysis of <i>Buddleja davidii</i> Stem Biomass. Industrial & Engineering Chemistry Research, 2010, 49, 1467-1472. | 1.8 | 90 |
| 155 | Solid-state NMR characterization of switchgrass cellulose after dilute acid pretreatment. Biofuels, 2010, 1, 85-90. | 1.4 | 65 |
| 156 | Chemical Transformations of Buddleja davidii Lignin during Ethanol Organosolv Pretreatment. Energy & Fuels, 2010, 24, 2723-2732. | 2.5 | 116 |
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