# Ming-Qiang Zhu

## List of Publications by Year in Descending Order



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|---|---|---|---|
| 428 papers | 15,928 citations | 62 h-index | 99 g-index |
| 446 ext. papers | 19,680 ext. citations | 6.7 avg, IF | 7.3 L-index |

| # | Paper | IF | Citations |
|---|---|---|---|
| 428 | The composition, physicochemical properties, antimicrobial and antioxidant activity of wood vinegar prepared by pyrolysis of Eucommia ulmoides Oliver branches under different refining methods and storage conditions. *Industrial Crops and Products*, **2022**, 178, 114586 | 5.9 | 1 |
| 427 | Demand-oriented construction of MoS-LDH: A versatile scavenger for highly selective and efficient removal of toxic Ag(I), Hg(II), As(III), and Cr(VI) from water.. *Science of the Total Environment*, **2022**, 820, 153334 | 10.2 | 2 |
| 426 | Synthesis of an environmentally friendly binding material using pyrolysis by-products and modified starch binder for slow-release fertilizers.. *Science of the Total Environment*, **2022**, 819, 153146 | 10.2 | 0 |
| 425 | Micromorphology control of the lignin-based activated carbon and the study on the pyrolysis and adsorption kinetics. *Industrial Crops and Products*, **2022**, 175, 114266 | 5.9 | 1 |
| 424 | The synthesis of tannin-based graphene aerogel by hydrothermal treatment for removal of heavy metal ions. *Industrial Crops and Products*, **2022**, 176, 114304 | 5.9 | 4 |
| 423 | The influence of different drying methods on bioactive components of Eucommia ulmoides Oliver male flower and the comprehensive assessment for industrial application. *Industrial Crops and Products*, **2022**, 177, 114469 | 5.9 | 1 |
| 422 | Removed heavy metal ions from wastewater reuse for chemiluminescence: Successive application of lignin-based composite hydrogels. *Journal of Hazardous Materials*, **2022**, 421, 126722 | 12.8 | 17 |
| 421 | Preparation and analysis of pyroligneous liquor, charcoal and gas from lacquer wood by carbonization method based on a biorefinery process. *Energy*, **2022**, 239, 121918 | 7.9 | 1 |
| 420 | Highly Conductive and Mechanically Robust Cellulose Nanocomposite Hydrogels with Antifreezing and Antidehydration Performances for Flexible Humidity Sensors.. *ACS Applied Materials & Interfaces*, **2022**, | 9.5 | 7 |
| 419 | A synergistic hydrothermal-deep eutectic solvents (DES) pretreatment for acquiring xylooligosaccharides and lignin nanoparticles from Eucommia ulmoides wood.. *International Journal of Biological Macromolecules*, **2022**, 209, 188-197 | 7.9 | 0 |
| 418 | High-efficiency capture and removal of phosphate from wastewater by 3D hierarchical functional biomass-derived carbon aerogel.. *Science of the Total Environment*, **2022**, 827, 154343 | 10.2 | 3 |
| 417 | Graphene aerogel with excellent property prepared by doping activated carbon and CNF for free-binder supercapacitor.. *Carbohydrate Polymers*, **2022**, 286, 119287 | 10.3 | 3 |
| 416 | Structure of corn bran hemicelluloses isolated with aqueous ethanol solutions and their potential to produce furfural.. *Carbohydrate Polymers*, **2022**, 288, 119420 | 10.3 | 0 |
| 415 | Ultrahighly Elastic Lignin-Based Copolymers as an Effective Binder for Silicon Anodes of Lithium-Ion Batteries. *ACS Sustainable Chemistry and Engineering*, **2022**, 10, 166-176 | 8.3 | 2 |
| 414 | Effect of structural changes of lignin during the microwave-assisted alkaline/ethanol pretreatment on cotton stalk for an effective enzymatic hydrolysis. *Energy*, **2022**, 254, 124402 | 7.9 | 1 |
| 413 | Recent Advances and Challenges in Photoreforming of Biomass-Derived Feedstocks into Hydrogen, Biofuels, or Chemicals by Using Functional Carbon Nitride Photocatalysts. *ChemSusChem*, **2021**, 14, 4903-4922 | 8.3 | 7 |
| 412 | The effects of pyrolysis temperature and storage time on the compositions and properties of the pyroligneous acids generated from cotton stalk based on a polygeneration process. *Industrial Crops and Products*, **2021**, 161, 113226 | 5.9 | 6 |

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| 411 | Tuning structure of spent coffee ground lignin by temperature fractionation to improve lignin-based carbon nanofibers mechanical performance. *International Journal of Biological Macromolecules*, **2021**, 174, 254-262 | 7.9 | 4 |
| 410 | Microwave-Assisted Sulfonation of Lignin for the Fabrication of a High-Performance Dye Dispersant. *ACS Sustainable Chemistry and Engineering*, **2021**, 9, 9053-9061 | 8.3 | 4 |
| 409 | Recent advances in lignocellulose prior-fractionation for biomaterials, biochemicals, and bioenergy. *Carbohydrate Polymers*, **2021**, 261, 117884 | 10.3 | 25 |
| 408 | Fabrication of porous ultrathin carbon nitride nanosheet catalysts with enhanced photocatalytic activity for N- and O-heterocyclic compound synthesis. *New Journal of Chemistry*, **2021**, 45, 365-372 | 3.6 | 4 |
| 407 | Enhanced adsorption activity for phosphate removal by functional lignin-derived carbon-based adsorbent: Optimization, performance and evaluation. *Science of the Total Environment*, **2021**, 761, 143217 | 10.2 | 27 |
| 406 | Comparison of activated carbons prepared by one-step and two-step chemical activation process based on cotton stalk for supercapacitors application. *Energy*, **2021**, 215, 119144 | 7.9 | 26 |
| 405 | Recent Advances in Lignin Modification and Its Application in Wastewater Treatment. *ACS Symposium Series*, **2021**, 143-173 | 0.4 | 3 |
| 404 | Highly selective oxidation of monosaccharides to sugar acids at room temperature over palladium supported on surface functionalized carbon nanotubes. *Green Chemistry*, **2021**, 23, 7084-7092 | 10 | 0 |
| 403 | Phosphorus-doped carbon nitride with grafted sulfonic acid groups for efficient photocatalytic synthesis of xylonic acid. *Green Chemistry*, **2021**, 23, 4150-4160 | 10 | 16 |
| 402 | Advanced and versatile lignin-derived biodegradable composite film materials toward a sustainable world. *Green Chemistry*, **2021**, 23, 3790-3817 | 10 | 30 |
| 401 | Nitrogen-doped lignin-derived biochar with enriched loading of CeO nanoparticles for highly efficient and rapid phosphate capture. *International Journal of Biological Macromolecules*, **2021**, 182, 1484-1494 | 7.9 | 2 |
| 400 | Effective fractionation strategy of sugarcane bagasse lignin to fabricate quality lignin-based carbon nanofibers supercapacitors. *International Journal of Biological Macromolecules*, **2021**, 184, 604-617 | 7.9 | 2 |
| 399 | Recent advances and challenges on removal and recycling of phosphate from wastewater using biomass-derived adsorbents. *Chemosphere*, **2021**, 278, 130377 | 8.4 | 19 |
| 398 | The effect of pyrolysis temperature on the characteristics of biochar, pyroligneous acids, and gas prepared from cotton stalk through a polygeneration process. *Industrial Crops and Products*, **2021**, 170, 113690 | 5.9 | 9 |
| 397 | Insights into bamboo delignification with acidic deep eutectic solvents pretreatment for enhanced lignin fractionation and valorization. *Industrial Crops and Products*, **2021**, 170, 113692 | 5.9 | 16 |
| 396 | CoFe2O4- mesoporous carbons derived from Eucommia ulmoides wood for supercapacitors: Comparison of two activation method and composite carbons material synthesis method. *Industrial Crops and Products*, **2021**, 171, 113861 | 5.9 | 2 |
| 395 | Structural changes and electrochemical properties of lacquer wood activated carbon prepared by phosphoric acid-chemical activation for supercapacitor applications. *Renewable Energy*, **2021**, 177, 82-94 | 8.1 | 10 |
| 394 | Ulmoidol, an unusual nortriterpenoid from Eucommia ulmoides Oliv. Leaves prevents neuroinflammation by targeting the PU.1 transcriptional signaling pathway. *Bioorganic Chemistry*, **2021**, 116, 105345 | 5.1 | 1 |

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| 393 | Severity factor kinetic model as a strategic parameter of hydrothermal processing (steam explosion and liquid hot water) for biomass fractionation under biorefinery concept. *Bioresource Technology*, **2021**, 342, 125961 | 11 | 16 |
| 392 | Unlocking Structure-Reactivity Relationships for Catalytic Hydrogenolysis of Lignin into Phenolic Monomers. *ChemSusChem*, **2020**, 13, 4548-4556 | 8.3 | 16 |
| 391 | Enhanced mechanical performance of xylan-based composite hydrogel via chain extension and semi-interpenetrating networks. *Cellulose*, **2020**, 27, 4407-4416 | 5.5 | 7 |
| 390 | Aldehydes-Aided Lignin-First Deconstruction Strategy for Facilitating Lignin Monomers and Fermentable Glucose Production from Poplar Wood. *Energies*, **2020**, 13, 1113 | 3.1 | 3 |
| 389 | Economically Competitive Biodegradable PBAT/Lignin Composites: Effect of Lignin Methylation and Compatibilizer. *ACS Sustainable Chemistry and Engineering*, **2020**, 8, 5338-5346 | 8.3 | 47 |
| 388 | Valorization of Technical Lignin for the Production of Desirable Resins with High Substitution Rate and Controllable Viscosity. *ChemSusChem*, **2020**, 13, 4446-4454 | 8.3 | 11 |
| 387 | Chemoselective Hydrogenation of Functionalized Nitroarenes into Anilines by Supported Molybdenum Catalysts. *ChemistrySelect*, **2020**, 5, 7249-7253 | 1.8 | 2 |
| 386 | Lignin Source and Structural Characterization. *ChemSusChem*, **2020**, 13, 4385-4393 | 8.3 | 34 |
| 385 | Acidic deep eutectic solvent assisted isolation of lignin containing nanocellulose from thermomechanical pulp. *Carbohydrate Polymers*, **2020**, 247, 116727 | 10.3 | 25 |
| 384 | In-depth interpretation of the structural changes of lignin and formation of diketones during acidic deep eutectic solvent pretreatment. *Green Chemistry*, **2020**, 22, 1851-1858 | 10 | 48 |
| 383 | Full Solution-Processed Fabrication of Conductive Hybrid Paper Electrodes for Organic Optoelectronics. *ACS Sustainable Chemistry and Engineering*, **2020**, 8, 3392-3400 | 8.3 | 9 |
| 382 | Total utilization of lignin and carbohydrates in : an integrated biorefinery strategy towards phenolics, levulinic acid, and furfural. *Biotechnology for Biofuels*, **2020**, 13, 2 | 7.8 | 18 |
| 381 | Multiple Analysis and Characterization of Novel and Environmentally Friendly Feather Protein-Based Wood Preservatives. *Polymers*, **2020**, 12, | 4.5 | 3 |
| 380 | Unmasking the heterogeneity of carbohydrates in heartwood, sapwood, and bark of Eucalyptus. *Carbohydrate Polymers*, **2020**, 238, 116212 | 10.3 | 6 |
| 379 | Catechyl Lignin Extracted from Castor Seed Coats Using Deep Eutectic Solvents: Characterization and Depolymerization. *ACS Sustainable Chemistry and Engineering*, **2020**, 8, 7031-7038 | 8.3 | 31 |
| 378 | High Production Yield and More Thermally Stable Lignin-Containing Cellulose Nanocrystals Isolated Using a Ternary Acidic Deep Eutectic Solvent. *ACS Sustainable Chemistry and Engineering*, **2020**, 8, 7182-7191 | 8.3 | 38 |
| 377 | Functional Chitosan-based Materials for Biological Applications. *Current Medicinal Chemistry*, **2020**, 27, 4660-4672 | 4.3 | 12 |
| 376 | Synthesizing green carbon dots with exceptionally high yield from biomass hydrothermal carbon. *Cellulose*, **2020**, 27, 415-428 | 5.5 | 17 |

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| 375 | The direct transformation of bioethanol fermentation residues for production of high-quality resins. *Green Chemistry*, **2020**, 22, 439-447 | 10 | 17 |
| 374 | Engineering aspects of hydrothermal pretreatment: From batch to continuous operation, scale-up and pilot reactor under biorefinery concept. *Bioresource Technology*, **2020**, 299, 122685 | 11 | 136 |
| 373 | Structural Variations of Lignin Macromolecules from Early Growth Stages of Poplar Cell Walls. *ACS Sustainable Chemistry and Engineering*, **2020**, 8, 1813-1822 | 8.3 | 23 |
| 372 | Structural and Morphological Transformations of Lignin Macromolecules during Bio-Based Deep Eutectic Solvent (DES) Pretreatment. *ACS Sustainable Chemistry and Engineering*, **2020**, 8, 2130-2137 | 8.3 | 53 |
| 371 | Electrolyte Regulation towards Stable Lithium-Metal Anodes in Lithium-Sulfur Batteries with Sulfurized Polyacrylonitrile Cathodes. *Angewandte Chemie - International Edition*, **2020**, 59, 10732-10745 | 16.4 | 56 |
| 370 | Structural elucidation of lignin macromolecule from abaca during alkaline hydrogen peroxide delignification. *International Journal of Biological Macromolecules*, **2020**, 144, 596-602 | 7.9 | 21 |
| 369 | Recycled fiber derived carbon dispersed Ag nanoparticles as high-performance catalyst for 4-nitrophenol reduction and substrate for surface-enhanced Raman scattering. *Cellulose*, **2020**, 27, 1649-1659 | 5.5 | 1 |
| 368 | Electrolyte Regulation towards Stable Lithium-Metal Anodes in Lithium-Sulfur Batteries with Sulfurized Polyacrylonitrile Cathodes. *Angewandte Chemie*, **2020**, 132, 10821-10834 | 3.6 | 17 |
| 367 | Effect of various pretreatments on improving cellulose enzymatic digestibility of tobacco stalk and the structural features of co-produced hemicelluloses. *Bioresource Technology*, **2020**, 297, 122471 | 11 | 19 |
| 366 | Synthesis of hemicellulose hydrogels with tunable conductivity and swelling behavior through facile one-pot reaction. *International Journal of Biological Macromolecules*, **2020**, 154, 1528-1536 | 7.9 | 4 |
| 365 | Preparation of carbon dots from waste cellulose diacetate as a sensor for tetracycline detection and fluorescence ink. *International Journal of Biological Macromolecules*, **2020**, 164, 4289-4298 | 7.9 | 9 |
| 364 | Tunable, UV-shielding and biodegradable composites based on well-characterized lignins and poly(butylene adipate-co-terephthalate). *Green Chemistry*, **2020**, 22, 8623-8632 | 10 | 18 |
| 363 | Functional B@mCN-assisted photocatalytic oxidation of biomass-derived pentoses and hexoses to lactic acid. *Green Chemistry*, **2020**, 22, 6384-6392 | 10 | 24 |
| 362 | Hydrothermal synthesis and applications of advanced carbonaceous materials from biomass: a review. *Advanced Composites and Hybrid Materials*, **2020**, 3, 267-284 | 8.7 | 34 |
| 361 | Lignin Source and Structural Characterization. *ChemSusChem*, **2020**, 13, 4174 | 8.3 | 2 |
| 360 | One-pot preparation and characterization of lignin-based cation exchange resin and its utilization in Pb (II) removal. *Bioresource Technology*, **2020**, 295, 122297 | 11 | 15 |
| 359 | Comparison of emulsifying capacity of two hemicelluloses from moso bamboo in soy oil-in-water emulsions.. *RSC Advances*, **2020**, 10, 4657-4663 | 3.7 | 3 |
| 358 | Research Progress in Lignin-Based Slow/Controlled Release Fertilizer. *ChemSusChem*, **2020**, 13, 4356-4366 | 8.3 | 63 |

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| 357 | Across the Board: Runcang Sun on Lignin Nanoparticles. *ChemSusChem*, **2020**, 13, 4768-4770 | 8.3 | 9 |
| 356 | Characterization and simulation of composite films synthesized by Eucommia rubber and epoxy resin. *Industrial Crops and Products*, **2019**, 141, 111780 | 5.9 | 4 |
| 355 | Insights into the Structural Changes and Potentials of Lignin from Bagasse during the Integrated Delignification Process. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 13886-13897 | 8.3 | 11 |
| 354 | Benzoxazine enhanced amino cellulose-based composite films: Preparation, proposed mechanism, and improved performance. *Carbohydrate Polymers*, **2019**, 222, 115008 | 10.3 | 17 |
| 353 | Compressive Alginate Sponge Derived from Seaweed Biomass Resources for Methylene Blue Removal from Wastewater. *Polymers*, **2019**, 11, | 4.5 | 13 |
| 352 | Fabrication of antimicrobial composite films based on xylan from pulping process for food packaging. *International Journal of Biological Macromolecules*, **2019**, 134, 122-130 | 7.9 | 25 |
| 351 | Fast and simple construction of composite films with renewable Eucommia ulmoides gum and Poly(ε-caprolactone). *Composites Science and Technology*, **2019**, 179, 145-151 | 8.6 | 15 |
| 350 | Structure and distribution changes of Eucalyptus hemicelluloses during hydrothermal and alkaline pretreatments. *International Journal of Biological Macromolecules*, **2019**, 133, 514-521 | 7.9 | 23 |
| 349 | Compressible, Elastic, and Pressure-Sensitive Carbon Aerogels Derived from 2D Titanium Carbide Nanosheets and Bacterial Cellulose for Wearable Sensors. *Chemistry of Materials*, **2019**, 31, 3301-3312 | 9.6 | 132 |
| 348 | Facile and High-Yield Synthesis of Carbon Quantum Dots from Biomass-Derived Carbons at Mild Condition. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 7833-7843 | 8.3 | 81 |
| 347 | A review of gasification of bio-oil for gas production. *Sustainable Energy and Fuels*, **2019**, 3, 1600-1622 | 5.8 | 9 |
| 346 | Sequential utilization of bamboo biomass through reductive catalytic fractionation of lignin. *Bioresource Technology*, **2019**, 285, 121335 | 11 | 40 |
| 345 | Biomass polymer-assisted fabrication of aerogels from MXenes with ultrahigh compression elasticity and pressure sensitivity. *Journal of Materials Chemistry A*, **2019**, 7, 10273-10281 | 13 | 58 |
| 344 | Carbon microspheres prepared from the hemicelluloses-rich pre-hydrolysis liquor for contaminant removal. *Carbohydrate Polymers*, **2019**, 213, 296-303 | 10.3 | 16 |
| 343 | Fragmentation of Woody Lignocellulose into Primary Monolignols and Their Derivatives. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 4666-4674 | 8.3 | 34 |
| 342 | Plasticized hemicelluloses/chitosan-based edible films reinforced by cellulose nanofiber with enhanced mechanical properties. *Carbohydrate Polymers*, **2019**, 224, 115164 | 10.3 | 50 |
| 341 | Advanced Compressible and Elastic 3D Monoliths beyond Hydrogels. *Advanced Functional Materials*, **2019**, 29, 1904472 | 15.6 | 40 |
| 340 | Syntheses of xylan stearate nanoparticles with loading function from by-products of viscose fiber mills. *Cellulose*, **2019**, 26, 7195-7206 | 5.5 | 13 |

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| 339 | Structural characterization of lignin in heartwood, sapwood, and bark of eucalyptus. *International Journal of Biological Macromolecules*, **2019**, 138, 519-527 | 7.9 | 22 |
| 338 | Green Process for Extraction of Lignin by the Microwave-Assisted Ionic Liquid Approach: Toward Biomass Biorefinery and Lignin Characterization. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 13062-13072 | 8.3 | 42 |
| 337 | Use of xylooligosaccharides (XOS) in hemicelluloses/chitosan-based films reinforced by cellulose nanofiber: Effect on physicochemical properties. *Food Chemistry*, **2019**, 298, 125041 | 8.5 | 23 |
| 336 | Hemicellulose from Plant Biomass in Medical and Pharmaceutical Application: A Critical Review. *Current Medicinal Chemistry*, **2019**, 26, 2430-2455 | 4.3 | 29 |
| 335 | Lignocellulosic Biomass Derived Functional Materials: Synthesis and Applications in Biomedical Engineering. *Current Medicinal Chemistry*, **2019**, 26, 2456-2474 | 4.3 | 8 |
| 334 | Corncob Biorefinery for Platform Chemicals and Lignin Coproduction: Metal Chlorides as Catalysts. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 5309-5317 | 8.3 | 8 |
| 333 | Chemodivergent hydrogenolysis of eucalyptus lignin with Ni@ZIF-8 catalyst. *Green Chemistry*, **2019**, 21, 1498-1504 | 10 | 38 |
| 332 | Hydrogenolysis of biorefinery corncob lignin into aromatic phenols over activated carbon-supported nickel. *Sustainable Energy and Fuels*, **2019**, 3, 401-408 | 5.8 | 29 |
| 331 | Structural Features of Alkaline Dioxane Lignin and Residual Lignin from Eucalyptus grandis × E. urophylla. *Journal of Agricultural and Food Chemistry*, **2019**, 67, 968-974 | 5.7 | 10 |
| 330 | A one-pot strategy for preparation of high-strength carboxymethyl xylan-g-poly(acrylic acid) hydrogels with shape memory property. *Journal of Colloid and Interface Science*, **2019**, 538, 507-518 | 9.3 | 22 |
| 329 | Facile fractionation of lignocelluloses by biomass-derived deep eutectic solvent (DES) pretreatment for cellulose enzymatic hydrolysis and lignin valorization. *Green Chemistry*, **2019**, 21, 275-283 | 10 | 244 |
| 328 | Green and Facile Preparation of Regular Lignin Nanoparticles with High Yield and Their Natural Broad-Spectrum Sunscreens. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 2658-2666 | 8.3 | 78 |
| 327 | Structural Transformations of Hybrid Pennisetum Lignin: Effect of Microwave-Assisted Hydrothermal Pretreatment. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 3073-3082 | 8.3 | 9 |
| 326 | Evaluating the efficiency of γ-valerolactone/water/acid system on Eucalyptus pretreatment by confocal Raman microscopy and enzymatic hydrolysis for bioethanol production. *Renewable Energy*, **2019**, 134, 228-234 | 8.1 | 19 |
| 325 | Unraveling the Fate of Lignin from Eucalyptus and Poplar during Integrated Delignification and Bleaching. *ChemSusChem*, **2019**, 12, 1059-1068 | 8.3 | 26 |
| 324 | Quaternized chitosan-stabilized copper sulfide nanoparticles for cancer therapy. *Materials Science and Engineering C*, **2019**, 96, 129-137 | 8.3 | 24 |
| 323 | Comparative study of hemicelluloses from Hybrid Pennisetum via a green and clean integrated process. *Carbohydrate Polymers*, **2019**, 205, 135-142 | 10.3 | 13 |
| 322 | The role of oxygen vacancies in biomass deoxygenation by reducible zinc/zinc oxide catalysts. *Catalysis Science and Technology*, **2018**, 8, 1819-1827 | 5.5 | 20 |

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| 321 | Sulfonation of carbonized xylan-type hemicellulose: a renewable and effective biomass-based biocatalyst for the synthesis of O- and N-heterocycles. *New Journal of Chemistry*, **2018**, 42, 9140-9150 | 3.6 | 7 |
| 320 | Selective Fragmentation of Biorefinery Corncob Lignin into p-Hydroxycinnamic Esters with a Supported Zinc Molybdate Catalyst. *ChemSusChem*, **2018**, 11, 2114-2123 | 8.3 | 49 |
| 319 | Self-Biotemplate Preparation of Hierarchical Porous Carbon with Rational Mesopore Ratio and High Oxygen Content for an Ultrahigh Energy-Density Supercapacitor. *ACS Sustainable Chemistry and Engineering*, **2018**, 6, 7138-7150 | 8.3 | 73 |
| 318 | Catalytic Conversion of Carbohydrates into 5-Ethoxymethylfurfural by a Magnetic Solid Acid Using γ-Valerolactone as a Co-Solvent. *Energy Technology*, **2018**, 6, 1951-1958 | 3.5 | 19 |
| 317 | A Supercompressible, Elastic, and Bendable Carbon Aerogel with Ultrasensitive Detection Limits for Compression Strain, Pressure, and Bending Angle. *Advanced Materials*, **2018**, 30, e1706705 | 24 | 174 |
| 316 | Gram-scale synthesis of single-crystalline graphene quantum dots derived from lignin biomass. *Green Chemistry*, **2018**, 20, 1383-1390 | 10 | 150 |
| 315 | Amphiphilic xylan–cholic acid conjugates: synthesis and self-assembly behaviors in aqueous solution. *Cellulose*, **2018**, 25, 245-257 | 5.5 | 8 |
| 314 | Multi-analysis of chemical transformations of lignin macromolecules from waterlogged archaeological wood. *International Journal of Biological Macromolecules*, **2018**, 109, 407-416 | 7.9 | 16 |
| 313 | Codensification of Agroforestry Residue with Bio-Oil for Improved Fuel Pellets. *Energy & Fuels*, **2018**, 32, 598-606 | 4.1 | 13 |
| 312 | NMR and ESI-MS spectrometry characterization of autohydrolysis xylo-oligosaccharides separated by gel permeation chromatography. *Carbohydrate Polymers*, **2018**, 195, 303-310 | 10.3 | 18 |
| 311 | Selective precipitation and characterization of lignin-carbohydrate complexes (LCCs) from Eucalyptus. *Planta*, **2018**, 247, 1077-1087 | 4.7 | 28 |
| 310 | Three-step cascade over a single catalyst: synthesis of 5-(ethoxymethyl)furfural from glucose over a hierarchical lamellar multi-functional zeolite catalyst. *Journal of Materials Chemistry A*, **2018**, 6, 7693-7705 | 12 | 32 |
| 309 | Characterization of lignins isolated with alkali from the hydrothermal or dilute-acid pretreated rapeseed straw during bioethanol production. *International Journal of Biological Macromolecules*, **2018**, 106, 885-892 | 7.9 | 19 |
| 308 | One-step process of hydrothermal and alkaline treatment of wheat straw for improving the enzymatic saccharification. *Biotechnology for Biofuels*, **2018**, 11, 137 | 7.8 | 15 |
| 307 | Lignin Nanosphere-Supported Cuprous Oxide as an Efficient Catalyst for Huisgen [3+2] Cycloadditions under Relatively Mild Conditions. *Polymers*, **2018**, 10, | 4.5 | 8 |
| 306 | Improvement in Wood Bonding Strength of Poly (Vinyl Acetate-Butyl Acrylate) Emulsion by Controlling the Amount of Redox Initiator. *Materials*, **2018**, 11, | 3.5 | 17 |
| 305 | Eco-Friendly Phenol-Urea-Formaldehyde Co-condensed Resin Adhesives Accelerated by Resorcinol for Plywood Manufacturing. *ACS Omega*, **2018**, 3, 8521-8528 | 3.9 | 15 |
| 304 | Effect of ultrasonic time on the structural and physico-chemical properties of hemicelluloses from Eucalyptus grandis. *Carbohydrate Polymers*, **2018**, 195, 114-119 | 10.3 | 17 |

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| 303 | Eucommia ulmoides Oliver: A Potential Feedstock for Bioactive Products. *Journal of Agricultural and Food Chemistry*, **2018**, 66, 5433-5438 | 5.7 | 40 |
| 302 | Carbon Nanotubes Reinforced Maleic Anhydride-Modified Xylan-g-Poly(N-isopropylacrylamide) Hydrogel with Multifunctional Properties. *Materials*, **2018**, 11, | 3.5 | 13 |
| 301 | Life-cycle assessment and techno-economic analysis of the utilization of bio-oil components for the production of three chemicals. *Green Chemistry*, **2018**, 20, 3287-3301 | 10 | 25 |
| 300 | Synergistic effects of graft polymerization and polymer blending on the flexibility of xylan-based films. *Carbohydrate Polymers*, **2018**, 181, 1128-1135 | 10.3 | 12 |
| 299 | Composite Film Based on Pulping Industry Waste and Chitosan for Food Packaging. *Materials*, **2018**, 11, | 3.5 | 8 |
| 298 | Au@h-Al2O3 analogic yolk□shell nanocatalyst for highly selective synthesis of biomass-derived D-xylonic acid via regulation of structure effects. *Green Chemistry*, **2018**, 20, 5188-5195 | 10 | 22 |
| 297 | A new approach to recycle oxalic acid during lignocellulose pretreatment for xylose production. *Biotechnology for Biofuels*, **2018**, 11, 324 | 7.8 | 21 |
| 296 | All-Biomass Fluorescent Hydrogels Based on Biomass Carbon Dots and Alginate/Nanocellulose for Biosensing.. *ACS Applied Bio Materials*, **2018**, 1, 1398-1407 | 4.1 | 27 |
| 295 | Upgrading Traditional Pulp Mill into Biorefinery Platform: Wheat Straw as a Feedstock. *ACS Sustainable Chemistry and Engineering*, **2018**, 6, 15284-15291 | 8.3 | 5 |
| 294 | New Understandings of the Relationship and Initial Formation Mechanism for Pseudo-lignin, Humins, and Acid-Induced Hydrothermal Carbon. *Journal of Agricultural and Food Chemistry*, **2018**, 66, 11981-11989 | 5.7 | 36 |
| 293 | Superelastic Carbon Aerogel with Ultrahigh and Wide-Range Linear Sensitivity. *ACS Applied Materials & Interfaces*, **2018**, 10, 40641-40650 | 9.5 | 40 |
| 292 | Green and efficient conversion strategy of Eucalyptus based on mechanochemical pretreatment. *Energy Conversion and Management*, **2018**, 175, 112-120 | 10.6 | 23 |
| 291 | Activated carbons prepared by hydrothermal pretreatment and chemical activation of Eucommia ulmoides wood for supercapacitors application. *Industrial Crops and Products*, **2018**, 125, 41-49 | 5.9 | 31 |
| 290 | Revealing the Topochemistry and Structural Features of Lignin during the Growth of Eucalyptus grandis □Eucalyptus urophylla. *ACS Sustainable Chemistry and Engineering*, **2018**, 6, 9198-9207 | 8.3 | 8 |
| 289 | Turning Wood Autohydrolysate Directly into Food Packing Composite Films with Good Toughness. *International Journal of Polymer Science*, **2018**, 2018, 1-8 | 2.4 | 4 |
| 288 | Solvothermally Controlled Synthesis of Organic-Inorganic Hybrid Nanosheets as Efficient pH-Universal Hydrogen-Evolution Electrocatalysts. *ChemSusChem*, **2018**, 11, 2828-2836 | 8.3 | 20 |
| 287 | Assessment of structural characteristics of regenerated cellulolytic enzyme lignin based on a mild DMSO/[Emim]OAc dissolution system from triploid of Populus tomentosa Carr.. *RSC Advances*, **2017**, 7, 3376-3387 | 3.7 | 9 |
| 286 | Hydrolytic depolymerization of corncob lignin in the view of a bio-based rigid polyurethane foam synthesis. *RSC Advances*, **2017**, 7, 6123-6130 | 3.7 | 23 |

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| 285 | Valorization of bamboo by γ-valerolactone/acid/water to produce digestible cellulose, degraded sugars and lignin. *Bioresource Technology*, **2017**, 230, 90-96 | 11 | 35 |
| 284 | Comparison of cellulose and chitin nanocrystals for reinforcing regenerated cellulose fibers. *Journal of Applied Polymer Science*, **2017**, 134, | 2.9 | 3 |
| 283 | Evaluation of organosolv pretreatment on the structural characteristics of lignin polymers and follow-up enzymatic hydrolysis of the substrates from Eucalyptus wood. *International Journal of Biological Macromolecules*, **2017**, 97, 447-459 | 7.9 | 28 |
| 282 | Copper Sulfide Nanoparticle/Cellulose Composite Paper: Room-Temperature Green Fabrication for NIR Laser-Inducible Ablation of Pathogenic Microorganisms. *ACS Sustainable Chemistry and Engineering*, **2017**, 5, 2648-2655 | 8.3 | 35 |
| 281 | Lignin-Derived Thioacidolysis Dimers: Reevaluation, New Products, Authentication, and Quantification. *ChemSusChem*, **2017**, 10, 830-835 | 8.3 | 30 |
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