

Ming-Qiang Zhu

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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	Structural Differences between the Lignin-Carbohydrate Complexes (LCCs) from 2- and 24-Month-Old Bamboo (<i>Neosinocalamus affinis</i>). <i>International Journal of Molecular Sciences</i> , 2017 , 19,	6.3	816
427	The role of pretreatment in improving the enzymatic hydrolysis of lignocellulosic materials. <i>Bioresource Technology</i> , 2016 , 199, 49-58	11	550
426	Recent Advances in Characterization of Lignin Polymer by Solution-State Nuclear Magnetic Resonance (NMR) Methodology. <i>Materials</i> , 2013 , 6, 359-391	3.5	446
425	Facile fractionation of lignocelluloses by biomass-derived deep eutectic solvent (DES) pretreatment for cellulose enzymatic hydrolysis and lignin valorization. <i>Green Chemistry</i> , 2019 , 21, 275-283	10	244
424	Understanding the chemical transformations of lignin during ionic liquid pretreatment. <i>Green Chemistry</i> , 2014 , 16, 181-190	10	191
423	A Supercompressible, Elastic, and Bendable Carbon Aerogel with Ultrasensitive Detection Limits for Compression Strain, Pressure, and Bending Angle. <i>Advanced Materials</i> , 2018 , 30, e1706705	24	174
422	Comparative study of lignins isolated by alkali and ultrasound-assisted alkali extractions from wheat straw. <i>Ultrasonics Sonochemistry</i> , 2002 , 9, 85-93	8.9	170
421	Probing Energy and Electron Transfer Mechanisms in Fluorescence Quenching of Biomass Carbon Quantum Dots. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 17478-88	9.5	156
420	An ultralight, elastic, cost-effective, and highly recyclable superabsorbent from microfibrillated cellulose fibers for oil spillage cleanup. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 8772-8781	13	156
419	Gram-scale synthesis of single-crystalline graphene quantum dots derived from lignin biomass. <i>Green Chemistry</i> , 2018 , 20, 1383-1390	10	150
418	Understanding the chemical and structural transformations of lignin macromolecule during torrefaction. <i>Applied Energy</i> , 2014 , 121, 1-9	10.7	147
417	Manufacture and application of lignin-based carbon fibers (LCFs) and lignin-based carbon nanofibers (LCNFs). <i>Green Chemistry</i> , 2017 , 19, 1794-1827	10	143
416	Lignin-Based Rigid Polyurethane Foam Reinforced with Pulp Fiber: Synthesis and Characterization. <i>ACS Sustainable Chemistry and Engineering</i> , 2014 , 2, 1474-1480	8.3	139
415	Catalytic Hydrogenolysis of Lignins into Phenolic Compounds over Carbon Nanotube Supported Molybdenum Oxide. <i>ACS Catalysis</i> , 2017 , 7, 7535-7542	13.1	139
414	Quantitative structures and thermal properties of birch lignins after ionic liquid pretreatment. <i>Journal of Agricultural and Food Chemistry</i> , 2013 , 61, 635-45	5.7	138
413	Engineering aspects of hydrothermal pretreatment: From batch to continuous operation, scale-up and pilot reactor under biorefinery concept. <i>Bioresource Technology</i> , 2020 , 299, 122685	11	136
412	The strong association of condensed phenolic moieties in isolated lignins with their inhibition of enzymatic hydrolysis. <i>Green Chemistry</i> , 2016 , 18, 4276-4286	10	134

411	Compressible, Elastic, and Pressure-Sensitive Carbon Aerogels Derived from 2D Titanium Carbide Nanosheets and Bacterial Cellulose for Wearable Sensors. <i>Chemistry of Materials</i> , 2019 , 31, 3301-3312	9.6	132
410	A lignosulfonate-modified graphene hydrogel with ultrahigh adsorption capacity for Pb(II) removal. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 11888-11896	13	123
409	Studies on the properties and formation mechanism of flexible nanocomposite hydrogels from cellulose nanocrystals and poly(acrylic acid). <i>Journal of Materials Chemistry</i> , 2012 , 22, 22467		119
408	Colloidal stability of negatively charged cellulose nanocrystalline in aqueous systems. <i>Carbohydrate Polymers</i> , 2012 , 90, 644-9	10.3	116
407	Cold sodium hydroxide/urea based pretreatment of bamboo for bioethanol production: Characterization of the cellulose rich fraction. <i>Industrial Crops and Products</i> , 2010 , 32, 551-559	5.9	115
406	Synthesis and characterization of mechanically flexible and tough cellulose nanocrystals/polyacrylamide nanocomposite hydrogels. <i>Cellulose</i> , 2013 , 20, 227-237	5.5	110
405	High Strength Hemicellulose-Based Nanocomposite Film for Food Packaging Applications. <i>ACS Sustainable Chemistry and Engineering</i> , 2016 , 4, 1985-1993	8.3	110
404	Role of lignin in a biorefinery: separation characterization and valorization. <i>Journal of Chemical Technology and Biotechnology</i> , 2013 , 88, 346-352	3.5	106
403	Structural elucidation of whole lignin from Eucalyptus based on preswelling and enzymatic hydrolysis. <i>Green Chemistry</i> , 2015 , 17, 1589-1596	10	104
402	Properties of polyvinyl alcohol/xylan composite films with citric acid. <i>Carbohydrate Polymers</i> , 2014 , 103, 94-9	10.3	103
401	3D hierarchical porous N-doped carbon aerogel from renewable cellulose: an attractive carbon for high-performance supercapacitor electrodes and CO ₂ adsorption. <i>RSC Advances</i> , 2016 , 6, 15788-15795	3.7	96
400	Fabrication of Cellulose Film with Enhanced Mechanical Properties in Ionic Liquid 1-Allyl-3-methylimidazolium Chloride (AmimCl). <i>Materials</i> , 2013 , 6, 1270-1284	3.5	91
399	From lignin subunits to aggregates: insights into lignin solubilization. <i>Green Chemistry</i> , 2017 , 19, 3272-3281		89
398	Comparison of physical properties of regenerated cellulose films fabricated with different cellulose feedstocks in ionic liquid. <i>Carbohydrate Polymers</i> , 2015 , 121, 71-8	10.3	89
397	Structural and physico-chemical characterization of hemicelluloses from ultrasound-assisted extractions of partially delignified fast-growing poplar wood through organic solvent and alkaline solutions. <i>Biotechnology Advances</i> , 2010 , 28, 583-93	17.8	89
396	Application of biochar-based catalysts in biomass upgrading: a review. <i>RSC Advances</i> , 2017 , 7, 48793-48805		88
395	Recent advances in alcohol and organic acid fractionation of lignocellulosic biomass. <i>Bioresource Technology</i> , 2016 , 200, 971-80	11	88
394	Characterization and phenolation of biorefinery technical lignins for lignin/phenol/formaldehyde resin adhesive synthesis. <i>RSC Advances</i> , 2014 , 4, 57996-58004	3.7	85

393	Direct transformation of xylan-type hemicelluloses to furfural via SnCl ₄ catalysts in aqueous and biphasic systems. <i>Bioresource Technology</i> , 2015 , 183, 188-94	11	84
392	Characterization and antioxidant activity of β -carotene loaded chitosan-graft-poly(lactide) nanomicelles. <i>Carbohydrate Polymers</i> , 2015 , 117, 169-176	10.3	82
391	Catalytic hydrothermal pretreatment of corncob into xylose and furfural via solid acid catalyst. <i>Bioresource Technology</i> , 2014 , 158, 313-20	11	82
390	Autohydrolysis of bamboo (<i>Dendrocalamus giganteus</i> Munro) culm for the production of xylo-oligosaccharides. <i>Bioresource Technology</i> , 2013 , 138, 63-70	11	82
389	Unveiling the Structural Heterogeneity of Bamboo Lignin by In Situ HSQC NMR Technique. <i>Bioenergy Research</i> , 2012 , 5, 886-903	3.1	82
388	Facile and High-Yield Synthesis of Carbon Quantum Dots from Biomass-Derived Carbons at Mild Condition. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 7833-7843	8.3	81
387	A metal-free and flexible supercapacitor based on redox-active lignosulfonate functionalized graphene hydrogels. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 20643-20650	13	80
386	Production of furfural from xylose, water-insoluble hemicelluloses and water-soluble fraction of corncob via a tin-loaded montmorillonite solid acid catalyst. <i>Bioresource Technology</i> , 2015 , 176, 242-8	11	79
385	Quantitative structural characterization and thermal properties of birch lignins after auto-catalyzed organosolv pretreatment and enzymatic hydrolysis. <i>Journal of Chemical Technology and Biotechnology</i> , 2013 , 88, 1663-1671	3.5	79
384	Enhanced enzymatic hydrolysis of bamboo (<i>Dendrocalamus giganteus</i> Munro) culm by hydrothermal pretreatment. <i>Bioresource Technology</i> , 2014 , 159, 41-7	11	78
383	Green and Facile Preparation of Regular Lignin Nanoparticles with High Yield and Their Natural Broad-Spectrum Sunscreens. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 2658-2666	8.3	78
382	Fractionation of bamboo culms by autohydrolysis, organosolv delignification and extended delignification: understanding the fundamental chemistry of the lignin during the integrated process. <i>Bioresource Technology</i> , 2013 , 150, 278-86	11	75
381	Self-Biotemplate Preparation of Hierarchical Porous Carbon with Rational Mesopore Ratio and High Oxygen Content for an Ultrahigh Energy-Density Supercapacitor. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 7138-7150	8.3	73
380	One-pot synthesis of levulinic acid from cellulose in ionic liquids. <i>Bioresource Technology</i> , 2015 , 192, 812-61	11	73
379	Xylan-based temperature/pH sensitive hydrogels for drug controlled release. <i>Carbohydrate Polymers</i> , 2016 , 151, 189-197	10.3	73
378	Highly thermostable, flexible, and conductive films prepared from cellulose, graphite, and polypyrrole nanoparticles. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 15641-8	9.5	72
377	Sustainable carbon quantum dots from forestry and agricultural biomass with amplified photoluminescence by simple NH ₄ OH passivation. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 9760-9766	7.1	72
376	Microwave-assisted acid hydrolysis to produce xylooligosaccharides from sugarcane bagasse hemicelluloses. <i>Food Chemistry</i> , 2014 , 156, 7-13	8.5	70

375	Naturally p-Hydroxybenzoylated Lignins in Palms. <i>Bioenergy Research</i> , 2015 , 8, 934-952	3.1	69
374	Effect of hydrothermal pretreatment on the structural changes of alkaline ethanol lignin from wheat straw. <i>Scientific Reports</i> , 2016 , 6, 39354	4.9	69
373	A feasible process for furfural production from the pre-hydrolysis liquor of corncob via biochar catalysts in a new biphasic system. <i>Bioresource Technology</i> , 2016 , 216, 754-60	11	68
372	Structural Characteristics of Lignin Macromolecules from Different Eucalyptus Species. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 11618-11627	8.3	67
371	Syntheses of lignin-derived thioacidolysis monomers and their uses as quantitation standards. <i>Journal of Agricultural and Food Chemistry</i> , 2012 , 60, 922-8	5.7	65
370	Synthetic and viscoelastic behaviors of silica nanoparticle reinforced poly(acrylamide) core-shell nanocomposite hydrogels. <i>Soft Matter</i> , 2013 , 9, 1220-1230	3.6	64
369	Studies on the starch and hemicelluloses fractionated by graded ethanol precipitation from bamboo <i>Phyllostachys bambusoides</i> f. <i>shouzhu</i> Yi. <i>Journal of Agricultural and Food Chemistry</i> , 2011 , 59, 2680-8	5.7	64
368	Chemical modification of ultrasound-pretreated sugarcane bagasse with maleic anhydride. <i>Industrial Crops and Products</i> , 2007 , 26, 212-219	5.9	63
367	Research Progress in Lignin-Based Slow/Controlled Release Fertilizer. <i>ChemSusChem</i> , 2020 , 13, 4356-4363	6.3	63
366	Microwave-assisted organic acid extraction of lignin from bamboo: structure and antioxidant activity investigation. <i>Food Chemistry</i> , 2012 , 134, 1392-8	8.5	62
365	Cellulose acetate fibers prepared from different raw materials with rapid synthesis method. <i>Carbohydrate Polymers</i> , 2016 , 137, 685-692	10.3	61
364	Choline chloride/urea as an effective plasticizer for production of cellulose films. <i>Carbohydrate Polymers</i> , 2015 , 117, 133-139	10.3	60
363	Comparative study of the pyrolysis of lignocellulose and its major components: characterization and overall distribution of their biochars and volatiles. <i>Bioresource Technology</i> , 2014 , 155, 21-7	11	60
362	Evaluation of the two-step treatment with ionic liquids and alkali for enhancing enzymatic hydrolysis of Eucalyptus: chemical and anatomical changes. <i>Biotechnology for Biofuels</i> , 2016 , 9, 166	7.8	59
361	Biomass polymer-assisted fabrication of aerogels from MXenes with ultrahigh compression elasticity and pressure sensitivity. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 10273-10281	13	58
360	Assessment of integrated process based on hydrothermal and alkaline treatments for enzymatic saccharification of sweet sorghum stems. <i>Bioresource Technology</i> , 2015 , 175, 473-9	11	58
359	"Green" films from renewable resources: properties of epoxidized soybean oil plasticized ethyl cellulose films. <i>Carbohydrate Polymers</i> , 2014 , 103, 198-206	10.3	58
358	Microwave-enhanced extraction of lignin from birch in formic acid: Structural characterization and antioxidant activity study. <i>Process Biochemistry</i> , 2012 , 47, 1799-1806	4.8	58

357	Microwave-induced synthesis of carboxymethyl hemicelluloses and their rheological properties. <i>Journal of Agricultural and Food Chemistry</i> , 2011 , 59, 570-6	5.7	58
356	Structural and physicochemical characterization of hemicelluloses isolated by alkaline peroxide from barley straw. <i>Polymer International</i> , 2002 , 51, 117-124	3.3	56
355	Electrolyte Regulation towards Stable Lithium-Metal Anodes in Lithium-Sulfur Batteries with Sulfurized Polyacrylonitrile Cathodes. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 10732-10745	16.4	56
354	Chemosynthesis and structural characterization of a novel lignin-based bio-sorbent and its strong adsorption for Pb (II). <i>Industrial Crops and Products</i> , 2017 , 108, 72-80	5.9	55
353	Effect of structural changes of lignin during the autohydrolysis and organosolv pretreatment on <i>Eucommia ulmoides</i> Oliver for an effective enzymatic hydrolysis. <i>Bioresource Technology</i> , 2015 , 185, 378-85	11	55
352	Hydrothermal conversion of xylose, glucose, and cellulose under the catalysis of transition metal sulfates. <i>Carbohydrate Polymers</i> , 2015 , 118, 44-51	10.3	54
351	Structural elucidation of inhomogeneous lignins from bamboo. <i>International Journal of Biological Macromolecules</i> , 2015 , 77, 250-9	7.9	53
350	Functional relationship of furfural yields and the hemicellulose-derived sugars in the hydrolysates from corncob by microwave-assisted hydrothermal pretreatment. <i>Biotechnology for Biofuels</i> , 2015 , 8, 127	7.8	53
349	Hemicelluloses and Their Derivatives. <i>ACS Symposium Series</i> , 2003 , 2-22	0.4	53
348	Structural and Morphological Transformations of Lignin Macromolecules during Bio-Based Deep Eutectic Solvent (DES) Pretreatment. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 2130-2137	8.3	53
347	Plasticized hemicelluloses/chitosan-based edible films reinforced by cellulose nanofiber with enhanced mechanical properties. <i>Carbohydrate Polymers</i> , 2019 , 224, 115164	10.3	50
346	Producing Lignin-Based Polyols through Microwave-Assisted Liquefaction for Rigid Polyurethane Foam Production. <i>Materials</i> , 2015 , 8, 586-599	3.5	49
345	Selective Fragmentation of Biorefinery Corncob Lignin into p-Hydroxycinnamic Esters with a Supported Zinc Molybdate Catalyst. <i>ChemSusChem</i> , 2018 , 11, 2114-2123	8.3	49
344	Self-assembly and β -carotene loading capacity of hydroxyethyl cellulose-graft-linoleic acid nanomicelles. <i>Carbohydrate Polymers</i> , 2016 , 145, 56-63	10.3	49
343	Enhanced enzymatic digestibility of bamboo by a combined system of multiple steam explosion and alkaline treatments. <i>Applied Energy</i> , 2014 , 136, 519-526	10.7	49
342	Isolation and structural characterization of lignin from cotton stalk treated in an ammonia hydrothermal system. <i>International Journal of Molecular Sciences</i> , 2012 , 13, 15209-26	6.3	49
341	In-depth interpretation of the structural changes of lignin and formation of diketones during acidic deep eutectic solvent pretreatment. <i>Green Chemistry</i> , 2020 , 22, 1851-1858	10	48
340	Lignin-phenol-formaldehyde resin adhesives prepared with biorefinery technical lignins. <i>Journal of Applied Polymer Science</i> , 2015 , 132, n/a-n/a	2.9	48

339	Economically Competitive Biodegradable PBAT/Lignin Composites: Effect of Lignin Methylation and Compatibilizer. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 5338-5346	8.3	47
338	Comprehensive evaluation of the liquid fraction during the hydrothermal treatment of rapeseed straw. <i>Biotechnology for Biofuels</i> , 2016 , 9, 142	7.8	45
337	Wet Torrefaction of Bamboo in Hydrochloric Acid Solution by Microwave Heating. <i>ACS Sustainable Chemistry and Engineering</i> , 2015 , 3, 2022-2029	8.3	44
336	Microwave-assisted modification on montmorillonite with ester-containing Gemini surfactant and its adsorption behavior for triclosan. <i>Journal of Colloid and Interface Science</i> , 2014 , 418, 311-6	9.3	44
335	Green Process for Extraction of Lignin by the Microwave-Assisted Ionic Liquid Approach: Toward Biomass Biorefinery and Lignin Characterization. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 13062-13072	8.3	42
334	Efficient separation and physico-chemical characterization of lignin from eucalyptus using ionic liquid/organic solvent and alkaline ethanol solvent. <i>Industrial Crops and Products</i> , 2013 , 47, 277-285	5.9	42
333	Oleoylation of sugarcane bagasse hemicelluloses using N-bromosuccinimide as a catalyst. <i>Journal of the Science of Food and Agriculture</i> , 2004 , 84, 800-810	4.3	42
332	Effect of lignin content on enzymatic hydrolysis of furfural residues. <i>BioResources</i> , 2011 , 6, 317-328	1.3	42
331	Isolation and physico-chemical characterization of lignins from ultrasound irradiated fast-growing poplar wood. <i>BioResources</i> , 2011 , 6, 414-433	1.3	42
330	Effect of structural characteristics of corncob hemicelluloses fractionated by graded ethanol precipitation on furfural production. <i>Carbohydrate Polymers</i> , 2016 , 136, 203-9	10.3	41
329	Effects of aluminum chloride-catalyzed hydrothermal pretreatment on the structural characteristics of lignin and enzymatic hydrolysis. <i>Bioresource Technology</i> , 2016 , 206, 57-64	11	41
328	Comparative study of three lignin fractions isolated from mild ball-milled Tamarix austromogoliac and Caragana sepium. <i>Journal of Applied Polymer Science</i> , 2008 , 108, 1158-1168	2.9	41
327	Sequential utilization of bamboo biomass through reductive catalytic fractionation of lignin. <i>Bioresource Technology</i> , 2019 , 285, 121335	11	40
326	Multifunctional cellulosic paper based on quaternized chitosan and gold nanoparticle/reduced graphene oxide via electrostatic self-assembly. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 7422-7428	13	40
325	Eucommia ulmoides Oliver: A Potential Feedstock for Bioactive Products. <i>Journal of Agricultural and Food Chemistry</i> , 2018 , 66, 5433-5438	5.7	40
324	Advanced Compressible and Elastic 3D Monoliths beyond Hydrogels. <i>Advanced Functional Materials</i> , 2019 , 29, 1904472	15.6	40
323	Fractionation of rapeseed straw by hydrothermal/dilute acid pretreatment combined with alkali post-treatment for improving its enzymatic hydrolysis. <i>Bioresource Technology</i> , 2017 , 225, 127-133	11	40
322	Production of xylooligosaccharides by microwave-induced, organic acid-catalyzed hydrolysis of different xylan-type hemicelluloses: Optimization by response surface methodology. <i>Carbohydrate Polymers</i> , 2017 , 157, 214-225	10.3	40

321	Alkaline hydrothermal liquefaction of swine carcasses to bio-oil. <i>Waste Management</i> , 2015 , 43, 230-8	8.6	40
320	Effect of pretreatment severity on the enzymatic hydrolysis of bamboo in hydrothermal deconstruction. <i>Cellulose</i> , 2014 , 21, 4105-4117	5.5	40
319	Characterization of Lignins Isolated with Alkaline Ethanol from the Hydrothermal Pretreated <i>Tamarix ramosissima</i> . <i>Bioenergy Research</i> , 2013 , 6, 519-532	3.1	40
318	Superelastic Carbon Aerogel with Ultrahigh and Wide-Range Linear Sensitivity. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 40641-40650	9.5	40
317	Synthesis and characterization of hydrophobic long-chain fatty acylated cellulose and its self-assembled nanoparticles. <i>Polymer Bulletin</i> , 2012 , 69, 389-403	2.4	39
316	Understanding the structural changes and depolymerization of Eucalyptus lignin under mild conditions in aqueous AlCl ₃ . <i>RSC Advances</i> , 2016 , 6, 45315-45325	3.7	39
315	Revealing the structure and distribution changes of Eucalyptus lignin during the hydrothermal and alkaline pretreatments. <i>Scientific Reports</i> , 2017 , 7, 593	4.9	38
314	High Production Yield and More Thermally Stable Lignin-Containing Cellulose Nanocrystals Isolated Using a Ternary Acidic Deep Eutectic Solvent. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 7182-7191	8.3	38
313	Heat Treatment of Industrial Alkaline Lignin and its Potential Application as an Adhesive for Green Wood-Lignin Composites. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 7269-7277	8.3	38
312	Facile synthesis of cellulose-based carbon with tunable N content for potential supercapacitor application. <i>Carbohydrate Polymers</i> , 2017 , 170, 107-116	10.3	38
311	Chemodivergent hydrogenolysis of eucalyptus lignin with Ni@ZIF-8 catalyst. <i>Green Chemistry</i> , 2019 , 21, 1498-1504	10	38
310	Self-Assembled Conjugated Polymer/Chitosan-graft-Oleic Acid Micelles for Fast Visible Detection of Aliphatic Biogenic Amines by "Turn-On" FRET. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 22875-22884	9.5	37
309	Fabrication of Biopolymer Hydrogel Containing Ag Nanoparticles for Antibacterial Property. <i>Industrial & Engineering Chemistry Research</i> , 2015 , 54, 7393-7400	3.9	37
308	Preparation and characterization of double crosslinked hydrogel films from carboxymethylchitosan and carboxymethylcellulose. <i>Carbohydrate Polymers</i> , 2014 , 110, 113-20	10.3	37
307	Structural Variation of Lignin and Lignin-Carbohydrate Complex in Eucalyptus grandis L. urophylla during Its Growth Process. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 1113-1122	8.3	37
306	Understanding the Mechanism of Cypress Liquefaction in Hot-Compressed Water through Characterization of Solid Residues. <i>Energies</i> , 2013 , 6, 1590-1603	3.1	37
305	Organic-Inorganic Composite Films Based on Modified Hemicelluloses with Clay Nanoplatelets. <i>ACS Sustainable Chemistry and Engineering</i> , 2014 , 2, 1811-1818	8.3	36
304	Regenerated cellulose film with enhanced tensile strength prepared with ionic liquid 1-ethyl-3-methylimidazolium acetate (EMIMAc). <i>Cellulose</i> , 2013 , 20, 1391-1399	5.5	36

303	Effects of pretreatments on crystalline properties and morphology of cellulose nanocrystals. <i>Cellulose</i> , 2013 , 20, 2427-2437	5.5	36
302	New Understandings of the Relationship and Initial Formation Mechanism for Pseudo-lignin, Humins, and Acid-Induced Hydrothermal Carbon. <i>Journal of Agricultural and Food Chemistry</i> , 2018 , 66, 11981-11989	5.7	36
301	Valorization of bamboo by γ -valerolactone/acid/water to produce digestible cellulose, degraded sugars and lignin. <i>Bioresource Technology</i> , 2017 , 230, 90-96	11	35
300	Copper Sulfide Nanoparticle/Cellulose Composite Paper: Room-Temperature Green Fabrication for NIR Laser-Inducible Ablation of Pathogenic Microorganisms. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 2648-2655	8.3	35
299	Combined effects of raw materials and solvent systems on the preparation and properties of regenerated cellulose fibers. <i>Carbohydrate Polymers</i> , 2015 , 128, 147-53	10.3	35
298	Hydrothermal degradation of lignin: products analysis for phenol formaldehyde adhesive synthesis. <i>International Journal of Biological Macromolecules</i> , 2015 , 72, 54-62	7.9	35
297	InCl ₃ -catalyzed conversion of carbohydrates into 5-hydroxymethylfurfural in biphasic system. <i>Bioresource Technology</i> , 2014 , 172, 457-460	11	35
296	Rapid esterification of wheat straw hemicelluloses induced by microwave irradiation. <i>Carbohydrate Polymers</i> , 2008 , 73, 612-20	10.3	35
295	Separation and Characterization of Cellulose from Wheat Straw. <i>Separation Science and Technology</i> , 2005 , 39, 391-411	2.5	35
294	Flexible nanocomposites with ultrahigh specific areal capacitance and tunable properties based on a cellulose derived nanofiber-carbon sheet framework coated with polyaniline. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 13352-13362	13	35
293	Fragmentation of Woody Lignocellulose into Primary Monolignols and Their Derivatives. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 4666-4674	8.3	34
292	Lignin Source and Structural Characterization. <i>ChemSusChem</i> , 2020 , 13, 4385-4393	8.3	34
291	Gasification of bio-oil: Effects of equivalence ratio and gasifying agents on product distribution and gasification efficiency. <i>Bioresource Technology</i> , 2016 , 211, 164-72	11	34
290	D-Xylonic acid: a solvent and an effective biocatalyst for a three-component reaction. <i>Green Chemistry</i> , 2016 , 18, 1738-1750	10	34
289	Xylan-type hemicellulose supported palladium nanoparticles: a highly efficient and reusable catalyst for the carbon-carbon coupling reactions. <i>Catalysis Science and Technology</i> , 2014 , 4, 1426-1435	5.5	34
288	Influence of delignification efficiency with alkaline peroxide on the digestibility of furfural residues for bioethanol production. <i>Bioresource Technology</i> , 2013 , 146, 208-214	11	34
287	Direct grafting modification of pulp in ionic liquids and self-assembly behavior of the graft copolymers. <i>Cellulose</i> , 2013 , 20, 873-884	5.5	34
286	Etherification of hemicelluloses from sugarcane bagasse. <i>Journal of Applied Polymer Science</i> , 2007 , 105, 3301-3308	2.9	34

285	Hydrothermal synthesis and applications of advanced carbonaceous materials from biomass: a review. <i>Advanced Composites and Hybrid Materials</i> , 2020 , 3, 267-284	8.7	34
284	Effects of Various Surfactants on Alkali Lignin Electrospinning Ability and Spun Fibers. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 9551-9559	3.9	33
283	SO ₄ ²⁻ /Sn-MMT Solid Acid Catalyst for Xylose and Xylan Conversion into Furfural in the Biphasic System. <i>Catalysts</i> , 2017 , 7, 118	4	33
282	Microwave-assisted conversion of biomass derived hemicelluloses into xylo-oligosaccharides by novel sulfonated bamboo-based catalysts. <i>Biomass and Bioenergy</i> , 2015 , 75, 245-253	5.3	32
281	Three-step cascade over a single catalyst: synthesis of 5-(ethoxymethyl)furfural from glucose over a hierarchical lamellar multi-functional zeolite catalyst. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 7693-7705	7.05	32
280	Efficient recovery and structural characterization of lignin from cotton stalk based on a biorefinery process using a Valerolactone/water system. <i>RSC Advances</i> , 2016 , 6, 6196-6204	3.7	32
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