

Run-Cang Sun

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/8484162/run-cang-sun-publications-by-year.pdf>

Version: 2024-04-25

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

212
papers

11,920
citations

59
h-index

99
g-index

216
ext. papers

14,633
ext. citations

7.7
avg, IF

6.99
L-index

#	Paper	IF	Citations
212	Development of the synthesis and applications of xylonic acid: A mini-review. <i>Fuel</i> , 2022 , 314, 122773	7.1	6
211	Phosphorus/oxygen co-doping in hollow-tube-shaped carbon nitride for efficient simultaneous visible-light-driven water splitting and biorefinery. <i>Chemical Engineering Journal</i> , 2022 , 437, 135232	14.7	4
210	Nitrogen-doped carbon anchored ruthenium nanoparticles for biofuel upgrade. <i>Fuel</i> , 2022 , 314, 123100	7.1	3
209	Highly Conductive and Mechanically Robust Cellulose Nanocomposite Hydrogels with Antifreezing and Antidehydration Performances for Flexible Humidity Sensors.. <i>ACS Applied Materials & Interfaces</i> , 2022 ,	9.5	7
208	Boosting electron kinetics of anatase TiO ₂ with carbon nanosheet for efficient photo-reforming of xylose into biomass-derived organic acids. <i>Journal of Alloys and Compounds</i> , 2022 , 906, 164276	5.7	2
207	Ultrahighly Elastic Lignin-Based Copolymers as an Effective Binder for Silicon Anodes of Lithium-Ion Batteries. <i>ACS Sustainable Chemistry and Engineering</i> , 2022 , 10, 166-176	8.3	2
206	CuInS ₂ quantum dots anchored onto the three-dimensional flexible self-supporting graphene oxide array with regulatable crystallinity and defect density for efficient photocatalytic synthesis of xylonic acid. <i>Applied Catalysis B: Environmental</i> , 2022 , 121573	21.8	3
205	Recent Advances and Challenges in Photoreforming of Biomass-Derived Feedstocks into Hydrogen, Biofuels, or Chemicals by Using Functional Carbon Nitride Photocatalysts. <i>ChemSusChem</i> , 2021 , 14, 4903-4922	8.3	7
204	Renewable and flexible thermosetting epoxies based on functionalized biorefinery lignin fractions. <i>Materials Today Sustainability</i> , 2021 , 100083	5	1
203	Rapid, high-yield production of lignin-containing cellulose nanocrystals using recyclable oxalic acid dihydrate. <i>Industrial Crops and Products</i> , 2021 , 173, 114148	5.9	6
202	Microwave-Assisted Sulfonation of Lignin for the Fabrication of a High-Performance Dye Dispersant. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 9053-9061	8.3	4
201	Recent advances in lignocellulose prior-fractionation for biomaterials, biochemicals, and bioenergy. <i>Carbohydrate Polymers</i> , 2021 , 261, 117884	10.3	25
200	Metal coordination assists fabrication of multifunctional aerogel. <i>Journal of Materials Science and Technology</i> , 2021 , 71, 67-74	9.1	1
199	Highly selective oxidation of monosaccharides to sugar acids at room temperature over palladium supported on surface functionalized carbon nanotubes. <i>Green Chemistry</i> , 2021 , 23, 7084-7092	10	0
198	Phosphorus-doped carbon nitride with grafted sulfonic acid groups for efficient photocatalytic synthesis of xylonic acid. <i>Green Chemistry</i> , 2021 , 23, 4150-4160	10	16
197	Advanced and versatile lignin-derived biodegradable composite film materials toward a sustainable world. <i>Green Chemistry</i> , 2021 , 23, 3790-3817	10	30
196	Effective fractionation strategy of sugarcane bagasse lignin to fabricate quality lignin-based carbon nanofibers supercapacitors. <i>International Journal of Biological Macromolecules</i> , 2021 , 184, 604-617	7.9	2

195	Copper oxide functionalized chitosan hybrid hydrogels for highly efficient photocatalytic-reforming of biomass-based monosaccharides to lactic acid. <i>Applied Catalysis B: Environmental</i> , 2021 , 291, 120123	21.8	18
194	Regulating the electron-hole separation to promote selective oxidation of biomass using ZnS@Bi ₂ S ₃ nanosheet catalyst. <i>Applied Catalysis B: Environmental</i> , 2021 , 292, 120180	21.8	9
193	Insights into bamboo delignification with acidic deep eutectic solvents pretreatment for enhanced lignin fractionation and valorization. <i>Industrial Crops and Products</i> , 2021 , 170, 113692	5.9	16
192	Reasonable regulation of carbon/nitride ratio in carbon nitride for efficient photocatalytic reforming of biomass-derived feedstocks to lactic acid. <i>Applied Catalysis B: Environmental</i> , 2021 , 299, 120698	21.8	12
191	Value-added products from lignin: Isolation, characterization and applications 2021 , 33-55		0
190	Unlocking Structure-Reactivity Relationships for Catalytic Hydrogenolysis of Lignin into Phenolic Monomers. <i>ChemSusChem</i> , 2020 , 13, 4548-4556	8.3	16
189	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
188	Chemoselective Hydrogenation of Functionalized Nitroarenes into Anilines by Supported Molybdenum Catalysts. <i>ChemistrySelect</i> , 2020 , 5, 7249-7253	1.8	2
187	Lignin Source and Structural Characterization. <i>ChemSusChem</i> , 2020 , 13, 4385-4393	8.3	34
186	Acidic deep eutectic solvent assisted isolation of lignin containing nanocellulose from thermomechanical pulp. <i>Carbohydrate Polymers</i> , 2020 , 247, 116727	10.3	25
185	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
184	Full Solution-Processed Fabrication of Conductive Hybrid Paper Electrodes for Organic Optoelectronics. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 3392-3400	8.3	9
183	Total utilization of lignin and carbohydrates in : an integrated biorefinery strategy towards phenolics, levulinic acid, and furfural. <i>Biotechnology for Biofuels</i> , 2020 , 13, 2	7.8	18
182	Catechyl Lignin Extracted from Castor Seed Coats Using Deep Eutectic Solvents: Characterization and Depolymerization. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 7031-7038	8.3	31
181	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
180	Synthesizing green carbon dots with exceptionally high yield from biomass hydrothermal carbon. <i>Cellulose</i> , 2020 , 27, 415-428	5.5	17
179	Structural Variations of Lignin Macromolecules from Early Growth Stages of Poplar Cell Walls. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 1813-1822	8.3	23
178	Green synthesis of chemical converted graphene sheets derived from pulping black liquor. <i>Carbon</i> , 2020 , 158, 690-697	10.4	19

177	Structural elucidation of lignin macromolecule from abaca during alkaline hydrogen peroxide delignification. <i>International Journal of Biological Macromolecules</i> , 2020 , 144, 596-602	7.9	21
176	Preparation of sulfur-doped carbon quantum dots from lignin as a sensor to detect Sudan I in an acidic environment. <i>Journal of Materials Chemistry B</i> , 2020 , 8, 10788-10796	7.3	22
175	Tunable, UV-shielding and biodegradable composites based on well-characterized lignins and poly(butylene adipate-co-terephthalate). <i>Green Chemistry</i> , 2020 , 22, 8623-8632	10	18
174	Functional B@mCN-assisted photocatalytic oxidation of biomass-derived pentoses and hexoses to lactic acid. <i>Green Chemistry</i> , 2020 , 22, 6384-6392	10	24
173	Lignin Source and Structural Characterization. <i>ChemSusChem</i> , 2020 , 13, 4174	8.3	2
172	Oxidized nanocellulose facilitates preparing photoluminescent nitrogen-doped fluorescent carbon dots for Fe ³⁺ ions detection and bioimaging. <i>Chemical Engineering Journal</i> , 2020 , 384, 123260	14.7	43
171	Comparison of emulsifying capacity of two hemicelluloses from moso bamboo in soy oil-in-water emulsions.. <i>RSC Advances</i> , 2020 , 10, 4657-4663	3.7	3
170	Research Progress in Lignin-Based Slow/Controlled Release Fertilizer. <i>ChemSusChem</i> , 2020 , 13, 4356-4366	8.3	63
169	Across the Board: Runcang Sun on Lignin Nanoparticles. <i>ChemSusChem</i> , 2020 , 13, 4768-4770	8.3	9
168	A highly conductive, pliable and foldable Cu/cellulose paper electrode enabled by controlled deposition of copper nanoparticles. <i>Nanoscale</i> , 2019 , 11, 725-732	7.7	56
167	Insights into the Structural Changes and Potentials of Lignin from Bagasse during the Integrated Delignification Process. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 13886-13897	8.3	11
166	Fabrication of antimicrobial composite films based on xylan from pulping process for food packaging. <i>International Journal of Biological Macromolecules</i> , 2019 , 134, 122-130	7.9	25
165	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
164	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
163	A review of gasification of bio-oil for gas production. <i>Sustainable Energy and Fuels</i> , 2019 , 3, 1600-1622	5.8	9
162	Sequential utilization of bamboo biomass through reductive catalytic fractionation of lignin. <i>Bioresource Technology</i> , 2019 , 285, 121335	11	40
161	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
160	Fragmentation of Woody Lignocellulose into Primary Monolignols and Their Derivatives. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 4666-4674	8.3	34

159	Structural elucidation of tobacco stalk lignin isolated by different integrated processes. <i>Industrial Crops and Products</i> , 2019 , 140, 111631	5.9	16
158	Fractional and structural characterization of lignin and its modification as biosorbents for efficient removal of chromium from wastewater: a review. <i>Journal of Leather Science and Engineering</i> , 2019 , 1,	3.6	40
157	Advanced Compressible and Elastic 3D Monoliths beyond Hydrogels. <i>Advanced Functional Materials</i> , 2019 , 29, 1904472	15.6	40
156	Structural characterization of lignin in heartwood, sapwood, and bark of eucalyptus. <i>International Journal of Biological Macromolecules</i> , 2019 , 138, 519-527	7.9	22
155	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
154	Corncob Biorefinery for Platform Chemicals and Lignin Coproduction: Metal Chlorides as Catalysts. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 5309-5317	8.3	8
153	Chemodivergent hydrogenolysis of eucalyptus lignin with Ni@ZIF-8 catalyst. <i>Green Chemistry</i> , 2019 , 21, 1498-1504	10	38
152	Hydrogenolysis of biorefinery corn cob lignin into aromatic phenols over activated carbon-supported nickel. <i>Sustainable Energy and Fuels</i> , 2019 , 3, 401-408	5.8	29
151	Structural Features of Alkaline Dioxane Lignin and Residual Lignin from Eucalyptus grandis L. urophylla. <i>Journal of Agricultural and Food Chemistry</i> , 2019 , 67, 968-974	5.7	10
150	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
149	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
148	Structural Transformations of Hybrid Pennisetum Lignin: Effect of Microwave-Assisted Hydrothermal Pretreatment. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 3073-3082	8.3	9
147	Unraveling the Fate of Lignin from Eucalyptus and Poplar during Integrated Delignification and Bleaching. <i>ChemSusChem</i> , 2019 , 12, 1059-1068	8.3	26
146	Comparative study of hemicelluloses from Hybrid Pennisetum via a green and clean integrated process. <i>Carbohydrate Polymers</i> , 2019 , 205, 135-142	10.3	13
145	The role of oxygen vacancies in biomass deoxygenation by reducible zinc/zinc oxide catalysts. <i>Catalysis Science and Technology</i> , 2018 , 8, 1819-1827	5.5	20
144	Sulfonation of carbonized xylan-type hemicellulose: a renewable and effective biomass-based biocatalyst for the synthesis of O- and N-heterocycles. <i>New Journal of Chemistry</i> , 2018 , 42, 9140-9150	3.6	7
143	Selective Fragmentation of Biorefinery Corn cob Lignin into p-Hydroxycinnamic Esters with a Supported Zinc Molybdate Catalyst. <i>ChemSusChem</i> , 2018 , 11, 2114-2123	8.3	49
142	Catalytic Conversion of Carbohydrates into 5-Ethoxymethylfurfural by a Magnetic Solid Acid Using γ -Valerolactone as a Co-Solvent. <i>Energy Technology</i> , 2018 , 6, 1951-1958	3.5	19

141	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
140	Gram-scale synthesis of single-crystalline graphene quantum dots derived from lignin biomass. <i>Green Chemistry</i> , 2018 , 20, 1383-1390	10	150
139	Codensification of Agroforestry Residue with Bio-Oil for Improved Fuel Pellets. <i>Energy & Fuels</i> , 2018 , 32, 598-606	4.1	13
138	Selective precipitation and characterization of lignin-carbohydrate complexes (LCCs) from Eucalyptus. <i>Planta</i> , 2018 , 247, 1077-1087	4.7	28
137	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	13	32
136	The effect of ionic liquids pretreatment on the distribution and structure of alkali-soluble hemicelluloses from Eucalyptus. <i>Separation and Purification Technology</i> , 2018 , 191, 364-369	8.3	21
135	Bio-oil gasification using air - Steam as gasifying agents in an entrained flow gasifier. <i>Energy</i> , 2018 , 142, 426-435	7.9	17
134	One-step process of hydrothermal and alkaline treatment of wheat straw for improving the enzymatic saccharification. <i>Biotechnology for Biofuels</i> , 2018 , 11, 137	7.8	15
133	Eco-Friendly Phenol-Urea-Formaldehyde Co-condensed Resin Adhesives Accelerated by Resorcinol for Plywood Manufacturing. <i>ACS Omega</i> , 2018 , 3, 8521-8528	3.9	15
132	Understanding the Distribution and Structural Feature of Eucalyptus Lignin Isolated by Ethanol/Lactone/Water/Acid System. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 12124-12131	8.3	15
131	Eucommia ulmoides Oliver: A Potential Feedstock for Bioactive Products. <i>Journal of Agricultural and Food Chemistry</i> , 2018 , 66, 5433-5438	5.7	40
130	Life-cycle assessment and techno-economic analysis of the utilization of bio-oil components for the production of three chemicals. <i>Green Chemistry</i> , 2018 , 20, 3287-3301	10	25
129	Availability of four energy crops assessing by the enzymatic hydrolysis and structural features of lignin before and after hydrothermal treatment. <i>Energy Conversion and Management</i> , 2018 , 155, 58-67	10.6	61
128	Evaluation of xylooligosaccharide production from residual hemicelluloses of dissolving pulp by acid and enzymatic hydrolysis.. <i>RSC Advances</i> , 2018 , 8, 35211-35217	3.7	23
127	Au@h-Al ₂ O ₃ analogic yolk-shell nanocatalyst for highly selective synthesis of biomass-derived D-xylonic acid via regulation of structure effects. <i>Green Chemistry</i> , 2018 , 20, 5188-5195	10	22
126	A new approach to recycle oxalic acid during lignocellulose pretreatment for xylose production. <i>Biotechnology for Biofuels</i> , 2018 , 11, 324	7.8	21
125	All-Biomass Fluorescent Hydrogels Based on Biomass Carbon Dots and Alginate/Nanocellulose for Biosensing.. <i>ACS Applied Bio Materials</i> , 2018 , 1, 1398-1407	4.1	27
124	Upgrading Traditional Pulp Mill into Biorefinery Platform: Wheat Straw as a Feedstock. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 15284-15291	8.3	5

123	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
122	Superelastic Carbon Aerogel with Ultrahigh and Wide-Range Linear Sensitivity. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 40641-40650	9.5	40
121	Revealing the Topochemistry and Structural Features of Lignin during the Growth of <i>Eucalyptus grandis</i> [Eucalyptus urophylla]. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 9198-9207	8.3	8
120	Compressive, ultralight and fire-resistant lignin-modified graphene aerogels as recyclable absorbents for oil and organic solvents. <i>Chemical Engineering Journal</i> , 2018 , 350, 173-180	14.7	82
119	Turning Wood Autohydrolysate Directly into Food Packing Composite Films with Good Toughness. <i>International Journal of Polymer Science</i> , 2018 , 2018, 1-8	2.4	4
118	Assessment of structural characteristics of regenerated cellulolytic enzyme lignin based on a mild DMSO/[Emim]OAc dissolution system from triploid of <i>Populus tomentosa</i> Carr.. <i>RSC Advances</i> , 2017 , 7, 3376-3387	3.7	9
117	Lignin-Derived Thioacidolysis Dimers: Reevaluation, New Products, Authentication, and Quantification. <i>ChemSusChem</i> , 2017 , 10, 830-835	8.3	30
116	Effect of alkaline preswelling on the structure of lignins from <i>Eucalyptus</i> . <i>Scientific Reports</i> , 2017 , 7, 45752	4.2	6
115	Multi-color light-emitting amphiphilic cellulose/conjugated polymers nanomicelles for tumor cell imaging. <i>Cellulose</i> , 2017 , 24, 889-902	5.5	14
114	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
113	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
112	From lignin subunits to aggregates: insights into lignin solubilization. <i>Green Chemistry</i> , 2017 , 19, 3272-3281	3.1	89
111	Structural variations of lignin macromolecule from different growth years of Triploid of <i>Populus tomentosa</i> Carr. <i>International Journal of Biological Macromolecules</i> , 2017 , 101, 747-757	7.9	29
110	Revealing the structure and distribution changes of <i>Eucalyptus</i> lignin during the hydrothermal and alkaline pretreatments. <i>Scientific Reports</i> , 2017 , 7, 593	4.9	38
109	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
108	Application of biochar-based catalysts in biomass upgrading: a review. <i>RSC Advances</i> , 2017 , 7, 48793-48805	3.5	88
107	Structural Characteristics of Lignin Macromolecules from Different <i>Eucalyptus</i> Species. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 11618-11627	8.3	67
106	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

105	Catalytic Hydrogenolysis of Lignins into Phenolic Compounds over Carbon Nanotube Supported Molybdenum Oxide. <i>ACS Catalysis</i> , 2017 , 7, 7535-7542	13.1	139
104	Special Magnetic Catalyst with Lignin-Reduced Au-Pd Nanoalloy. <i>ACS Omega</i> , 2017 , 2, 4938-4945	3.9	14
103	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
102	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
101	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
100	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
99	Structural Variation of Lignin and Lignin-Carbohydrate Complex in <i>Eucalyptus grandis</i> L. Eucalyptophylla during Its Growth Process. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 1113-1122	8.3	37
98	Facile approach to prepare drug-loading film from hemicelluloses and chitosan. <i>Carbohydrate Polymers</i> , 2016 , 153, 542-548	10.3	30
97	Cellulosic micelles as nanocapsules of liposoluble CdSe/ZnS quantum dots for bioimaging. <i>Journal of Materials Chemistry B</i> , 2016 , 4, 6454-6461	7.3	23
96	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
95	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
94	Isolation and analysis of four constituents from barks and leaves of <i>Eucommia ulmoides</i> Oliver by a multi-step process. <i>Industrial Crops and Products</i> , 2016 , 83, 124-132	5.9	29
93	Structural Elucidation of Whole Lignin in Cell Walls of Triploid of <i>Populus tomentosa</i> Carr.. <i>ACS Sustainable Chemistry and Engineering</i> , 2016 , 4, 1006-1015	8.3	24
92	Variations of lignin-Lignin and lignin-Carbohydrate linkages from young <i>Neosinocalamus affinis</i> bamboo culms. <i>RSC Advances</i> , 2016 , 6, 15478-15484	3.7	17
91	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
90	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
89	Production of xylo-sugars from corncob by oxalic acid-assisted ball milling and microwave-induced hydrothermal treatments. <i>Industrial Crops and Products</i> , 2016 , 79, 137-145	5.9	36
88	Recent advances in alcohol and organic acid fractionation of lignocellulosic biomass. <i>Bioresource Technology</i> , 2016 , 200, 971-80	11	88

87	F127/conjugated polymers fluorescent micelles for trace detection of nitroaromatic explosives. <i>Dyes and Pigments</i> , 2016 , 125, 367-374	4.6	16
86	D-Xylonic acid: a solvent and an effective biocatalyst for a three-component reaction. <i>Green Chemistry</i> , 2016 , 18, 1738-1750	10	34
85	Reaction Behavior of Cellulose in the Homogeneous Esterification of Bagasse Modified with Phthalic Anhydride in Ionic Liquid 1-Allyl-3-methylimidazium Chloride. <i>International Journal of Polymer Science</i> , 2016 , 2016, 1-9	2.4	4
84	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
83	Fluorescent pH-Sensing Probe Based on Biorefinery Wood Lignosulfonate and Its Application in Human Cancer Cell Bioimaging. <i>Journal of Agricultural and Food Chemistry</i> , 2016 , 64, 9592-9600	5.7	20
82	Lignin-AuNPs liquid marble for remotely-controllable detection of Pb. <i>Scientific Reports</i> , 2016 , 6, 38164	4.9	22
81	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
80	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
79	Structural elucidation of inhomogeneous lignins from bamboo. <i>International Journal of Biological Macromolecules</i> , 2015 , 77, 250-9	7.9	53
78	Structural elucidation of whole lignin from Eucalyptus based on preswelling and enzymatic hydrolysis. <i>Green Chemistry</i> , 2015 , 17, 1589-1596	10	104
77	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
76	Synthesis, characterization, and micellar behaviors of hydroxyethyl cellulose-graft-poly(lactide/ε-caprolactone/p-dioxanone). <i>Cellulose</i> , 2015 , 22, 2365-2374	5.5	23
75	Toward an Understanding of Inhomogeneities in Structure of Lignin in Green Solvents Biorefinery. Part 1: Fractionation and Characterization of Lignin. <i>ACS Sustainable Chemistry and Engineering</i> , 2015 , 3, 2443-2451	8.3	17
74	Characterization and antioxidant activity of β-carotene loaded chitosan-graft-poly(lactide) nanomicelles. <i>Carbohydrate Polymers</i> , 2015 , 117, 169-176	10.3	82
73	Preparation of Lignin-Phenol-Formaldehyde Resin Adhesive Based on Active Sites of Technical Lignin. <i>Journal of Biobased Materials and Bioenergy</i> , 2015 , 9, 266-272	1.4	31
72	Hemicelluloses/montmorillonite hybrid films with improved mechanical and barrier properties. <i>Scientific Reports</i> , 2015 , 5, 16405	4.9	22
71	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
70	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

69	Lignosulfonic Acid: A Renewable and Effective Biomass-Based Catalyst for Multicomponent Reactions. <i>ACS Sustainable Chemistry and Engineering</i> , 2015 , 3, 1366-1373	8.3	27
68	Structural and dynamic changes of lignin in Eucalyptus cell walls during successive alkaline ethanol treatments. <i>Industrial Crops and Products</i> , 2015 , 74, 200-208	5.9	34
67	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
66	Optimization of bamboo autohydrolysis for the production of xylo-oligosaccharides using response surface methodology. <i>RSC Advances</i> , 2015 , 5, 106219-106226	3.7	19
65	Integrated hot-compressed water and laccase-mediator treatments of Eucalyptus grandis fibers: structural changes of fiber and lignin. <i>Journal of Agricultural and Food Chemistry</i> , 2015 , 63, 1763-72	5.7	13
64	Understanding the chemical and structural transformations of lignin macromolecule during torrefaction. <i>Applied Energy</i> , 2014 , 121, 1-9	10.7	147
63	Integrated biorefinery based on hydrothermal and alkaline treatments: investigation of sorghum hemicelluloses. <i>Carbohydrate Polymers</i> , 2014 , 111, 663-9	10.3	19
62	Understanding the chemical transformations of lignin during ionic liquid pretreatment. <i>Green Chemistry</i> , 2014 , 16, 181-190	10	191
61	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
60	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
59	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
58	High-value utilization of lignin to synthesize Ag nanoparticles with detection capacity for Hg ²⁺ . <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 16147-55	9.5	92
57	Influence of alkaline hydrothermal pretreatment on shrub wood Tamarix ramosissima : Characteristics of degraded lignin. <i>Biomass and Bioenergy</i> , 2014 , 68, 82-94	5.3	18
56	Unraveling the structural characteristics of lignin in hydrothermal pretreated fibers and manufactured binderless boards from Eucalyptus grandis. <i>Sustainable Chemical Processes</i> , 2014 , 2, 9		41
55	Structural and Hydrolysis Characteristics of Cypress Pretreated by Ionic Liquids in a Microwave Irradiation Environment. <i>Bioenergy Research</i> , 2014 , 7, 1305-1316	3.1	32
54	Structural elucidation of sorghum lignins from an integrated biorefinery process based on hydrothermal and alkaline treatments. <i>Journal of Agricultural and Food Chemistry</i> , 2014 , 62, 8120-8	5.7	39
53	Microwave-assisted acid hydrolysis to produce xylooligosaccharides from sugarcane bagasse hemicelluloses. <i>Food Chemistry</i> , 2014 , 156, 7-13	8.5	70
52	Fabrication and Characterization of Regenerated Cellulose Films Using Different Ionic Liquids. <i>Journal of Spectroscopy</i> , 2014 , 2014, 1-8	1.5	32

51	Enhancement of Lignin Biopolymer Isolation from Hybrid Poplar by Organosolv Pretreatments. <i>International Journal of Polymer Science</i> , 2014 , 2014, 1-10	2.4	22
50	Hydrothermal conversion of bamboo: identification and distribution of the components in solid residue, water-soluble and acetone-soluble fractions. <i>Journal of Agricultural and Food Chemistry</i> , 2014 , 62, 12360-5	5.7	16
49	Unmasking the structural features and property of lignin from bamboo. <i>Industrial Crops and Products</i> , 2013 , 42, 332-343	5.9	155
48	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
47	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
46	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
45	Structural elucidation of lignin polymers of Eucalyptus chips during organosolv pretreatment and extended delignification. <i>Journal of Agricultural and Food Chemistry</i> , 2013 , 61, 11067-75	5.7	82
44	Hydrothermal treatment and enzymatic hydrolysis of <i>Tamarix ramosissima</i> : evaluation of the process as a conversion method in a biorefinery concept. <i>Bioresource Technology</i> , 2013 , 135, 73-81	11	50
43	Effect of ionic liquid/organic solvent pretreatment on the enzymatic hydrolysis of corncob for bioethanol production. Part 1: Structural characterization of the lignins. <i>Industrial Crops and Products</i> , 2013 , 43, 570-577	5.9	87
42	Preparation of cellulose-graft-poly(ϵ -caprolactone) nanomicelles by homogeneous ROP in ionic liquid. <i>Carbohydrate Polymers</i> , 2013 , 92, 77-83	10.3	74
41	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
40	Successive alkali extraction and structural characterization of hemicelluloses from sweet sorghum stem. <i>Carbohydrate Polymers</i> , 2013 , 92, 2224-31	10.3	60
39	Synergistic benefits of ionic liquid and alkaline pretreatments of poplar wood. Part 1: effect of integrated pretreatment on enzymatic hydrolysis. <i>Bioresource Technology</i> , 2013 , 144, 429-34	11	29
38	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
37	Quantitative structural characterization of the lignins from the stem and pith of bamboo (<i>Phyllostachys pubescens</i>). <i>Holzforschung</i> , 2013 , 67, 613-627	2	119
36	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
35	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
34	Structural features and antioxidant activity of xylooligosaccharides enzymatically produced from sugarcane bagasse. <i>Bioresource Technology</i> , 2013 , 127, 236-41	11	107

33	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
32	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
31	Structural variation of bamboo lignin before and after ethanol organosolv pretreatment. <i>International Journal of Molecular Sciences</i> , 2013 , 14, 21394-413	6.3	63
30	Chemical Changes of Raw Materials and Manufactured Binderless Boards during Hot Pressing: Lignin Isolation and Characterization. <i>BioResources</i> , 2013 , 9,	1.3	21
29	Fractional purification and bioconversion of hemicelluloses. <i>Biotechnology Advances</i> , 2012 , 30, 879-903	17.8	264
28	Self-assembly and paclitaxel loading capacity of cellulose-graft-poly(lactide) nanomicelles. <i>Journal of Agricultural and Food Chemistry</i> , 2012 , 60, 3900-8	5.7	73
27	Synthesis and characterization of new 5-linked pinoresinol lignin models. <i>Chemistry - A European Journal</i> , 2012 , 18, 16402-10	4.8	29
26	H2SO4-Catalyzed Hydrothermal Pretreatment of Triploid Poplar to Enhance Enzymatic Hydrolysis. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 11598-11604	3.9	17
25	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
24	Sequential solvent fractionation of heterogeneous bamboo organosolv lignin for value-added application. <i>Separation and Purification Technology</i> , 2012 , 101, 18-25	8.3	64
23	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
22	Formic acid based organosolv pulping of bamboo (<i>Phyllostachys acuta</i>): Comparative characterization of the dissolved lignins with milled wood lignin. <i>Chemical Engineering Journal</i> , 2012 , 179, 80-89	14.7	111
21	Nanocomposite films based on xylan-rich hemicelluloses and cellulose nanofibers with enhanced mechanical properties. <i>Biomacromolecules</i> , 2011 , 12, 3321-9	6.9	163
20	Characterization of lignin structures and lignin-carbohydrate complex (LCC) linkages by quantitative ¹³ C and 2D HSQC NMR spectroscopy. <i>Journal of Agricultural and Food Chemistry</i> , 2011 , 59, 10604-14	5.7	359
19	Homogeneous lauroylation of ball-milled bamboo in ionic liquid for bio-based composites production: Part I: Modification and characterization. <i>Industrial Crops and Products</i> , 2011 , 34, 1491-1501	5.9	28
18	Ultrasound-assisted dissolution of cellulose in ionic liquid. <i>Carbohydrate Polymers</i> , 2011 , 86, 672-677	10.3	129
17	Structural characterization of lignin from triploid of <i>Populus tomentosa</i> Carr. <i>Journal of Agricultural and Food Chemistry</i> , 2011 , 59, 6605-15	5.7	97
16	Isolation and physico-chemical characterization of lignins from ultrasound irradiated fast-growing poplar wood. <i>BioResources</i> , 2011 , 6, 414-433	1.3	42

15	Fractionation of alkali-solubilized hemicelluloses from delignified <i>Populus gansuensis</i> : structure and properties. <i>Journal of Agricultural and Food Chemistry</i> , 2010 , 58, 5743-50	5.7	43
14	Fractional isolation and chemical structure of hemicellulosic polymers obtained from <i>Bambusa rigida</i> species. <i>Journal of Agricultural and Food Chemistry</i> , 2010 , 58, 11372-83	5.7	36
13	Isolation of cellulolytic enzyme lignin from wood preswollen/dissolved in dimethyl sulfoxide/ <i>n</i> -methylimidazole. <i>Journal of Agricultural and Food Chemistry</i> , 2010 , 58, 3446-50	5.7	48
12	Effect of hot-water extraction on alkaline pulping of bagasse. <i>Biotechnology Advances</i> , 2010 , 28, 609-12	17.8	35
11	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
10	Structural Characterization of Alkali-Extractable Lignin Fractions from Bamboo. <i>Journal of Biobased Materials and Bioenergy</i> , 2010 , 4, 408-425	1.4	47
9	Comparative study of hemicelluloses obtained by graded ethanol precipitation from sugarcane bagasse. <i>Journal of Agricultural and Food Chemistry</i> , 2009 , 57, 6305-17	5.7	256
8	Comparative study of anatomy and lignin distribution in normal and tension wood of <i>Salix gordejecii</i> . <i>Wood Science and Technology</i> , 2006 , 40, 358-370	2.5	27
7	Ester and ether linkages between hydroxycinnamic acids and lignins from wheat, rice, rye, and barley straws, maize stems, and fast-growing poplar wood. <i>Industrial Crops and Products</i> , 2002 , 15, 179-188	5.9	132
6	Chemical, structural, and thermal characterizations of alkali-soluble lignins and hemicelluloses, and cellulose from maize stems, rye straw, and rice straw. <i>Polymer Degradation and Stability</i> , 2001 , 74, 307-319	4.7	558
5	Quantitative determination of hydroxycinnamic acids in wheat, rice, rye, and barley straws, maize stems, oil palm frond fiber, and fast-growing poplar wood. <i>Journal of Agricultural and Food Chemistry</i> , 2001 , 49, 5122-9	5.7	112
4	Characterization of lignins from wheat straw by alkaline peroxide treatment. <i>Polymer Degradation and Stability</i> , 2000 , 67, 101-109	4.7	57
3	Separation and Characterization of Lignins from the Black Liquor of Oil Palm Trunk Fiber Pulping. <i>Separation Science and Technology</i> , 1999 , 34, 3045-3058	2.5	10
2	Effects of precipitation pH on the physico-chemical properties of the lignins isolated from the black liquor of oil palm empty fruit bunch fibre pulping. <i>Polymer Degradation and Stability</i> , 1999 , 63, 195-200	4.7	73
1	Boosting photocatalytic performance for selective oxidation of biomass-derived pentoses and hexoses to lactic acid using hierarchically porous Cu/Cu ₂ O/CuO@CA. <i>Journal of Materials Chemistry C</i> ,	7.1	4