

# Lucian A Lucia

## List of Publications by Citations

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249  
papers

8,759  
citations

36  
h-index

88  
g-index

265  
ext. papers

9,960  
ext. citations

4.9  
avg, IF

6.57  
L-index

#	Paper	IF	Citations
249	Cellulose nanocrystals: chemistry, self-assembly, and applications. <i>Chemical Reviews</i> , <b>2010</b> , 110, 3479-5008.1	8.1	3892
248	One-pot polymerization, surface grafting, and processing of waterborne polyurethane-cellulose nanocrystal nanocomposites. <i>Journal of Materials Chemistry</i> , <b>2009</b> , 19, 7137		255
247	Toward a better understanding of the lignin isolation process from wood. <i>Journal of Agricultural and Food Chemistry</i> , <b>2006</b> , 54, 5939-47	5.7	182
246	Comparative evaluation of three lignin isolation protocols for various wood species. <i>Journal of Agricultural and Food Chemistry</i> , <b>2006</b> , 54, 9696-705	5.7	174
245	Cellulose and nanocellulose-based flexible-hybrid printed electronics and conductive composites - A review. <i>Carbohydrate Polymers</i> , <b>2018</b> , 198, 249-260	10.3	101
244	Hydrothermal Carbonization of Corncob Residues for Hydrochar Production. <i>Energy &amp; Fuels</i> , <b>2015</b> , 29, 872-876	4.1	95
243	Laccase-immobilized bacterial cellulose/TiO <sub>2</sub> functionalized composite membranes: Evaluation for photo- and bio-catalytic dye degradation. <i>Journal of Membrane Science</i> , <b>2017</b> , 525, 89-98	9.6	85
242	On the propensity of lignin to associate: a size exclusion chromatography study with lignin derivatives isolated from different plant species. <i>Phytochemistry</i> , <b>2007</b> , 68, 2570-83	4	76
241	Fabrication, characteristics and applications of carbon materials with different morphologies and porous structures produced from wood liquefaction: A review. <i>Chemical Engineering Journal</i> , <b>2019</b> , 364, 226-243	14.7	75
240	Cellulose nanocrystals/cellulose core-in-shell nanocomposite assemblies. <i>Langmuir</i> , <b>2009</b> , 25, 13250-7	4	74
239	Propensity of lignin to associate: light scattering photometry study with native lignins. <i>Biomacromolecules</i> , <b>2008</b> , 9, 3362-9	6.9	74
238	A one-pot biosynthesis of reduced graphene oxide (RGO)/bacterial cellulose (BC) nanocomposites. <i>Green Chemistry</i> , <b>2014</b> , 16, 3195-3201	10	73
237	Soy protein/nanocellulose composite aerogels. <i>Cellulose</i> , <b>2013</b> , 20, 2417-2426	5.5	71
236	The enhanced mechanical properties of a covalently bound chitosan-multiwalled carbon nanotube nanocomposite. <i>Journal of Applied Polymer Science</i> , <b>2009</b> , 113, 466-472	2.9	65
235	Deep Eutectic Solvents (DESs) for the Isolation of Willow Lignin ( <i>Salix matsudana</i> cv. Zhuliu). <i>International Journal of Molecular Sciences</i> , <b>2017</b> , 18,	6.3	64
234	Chemicals and energy from biomass. <i>Canadian Journal of Chemistry</i> , <b>2006</b> , 84, 960-970	0.9	63
233	General Spectroscopic Protocol to Obtain the Concentration of the Superoxide Anion Radical. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2009</b> , 48, 9331-9334	3.9	60

232	On the surface interactions of proteins with lignin. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2013</b> , 5, 199-206	58
231	Intrinsic parameters for the synthesis and tuned properties of amphiphilic chitosan drug delivery nanocarriers. <i>Journal of Controlled Release</i> , <b>2017</b> , 260, 213-225	11.7 56
230	A novel fabrication of monodisperse melamine-formaldehyde resin microspheres to adsorb lead (II). <i>Chemical Engineering Journal</i> , <b>2016</b> , 288, 745-757	14.7 54
229	A fundamental investigation of the microarchitecture and mechanical properties of tempo-oxidized nanofibrillated cellulose (NFC)-based aerogels. <i>Cellulose</i> , <b>2012</b> , 19, 1945-1956	5.5 54
228	Enhanced Aggregation Behavior of Antimony(V) Porphyrins in Polyfluorinated Surfactant/Clay Hybrid Microenvironment. <i>Journal of Physical Chemistry B</i> , <b>2003</b> , 107, 3789-3797	3.4 54
227	Carboxyl Groups in Wood Fibers. 1. Determination of Carboxyl Groups by Headspace Gas Chromatography. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2003</b> , 42, 5440-5444	3.9 52
226	Effects of hardwood structural and chemical characteristics on enzymatic hydrolysis for biofuel production. <i>Bioresource Technology</i> , <b>2012</b> , 110, 232-8	11 51
225	Green Modification of Surface Characteristics of Cellulosic Materials at the Molecular or Nano Scale: A Review. <i>BioResources</i> , <b>2015</b> , 10,	1.3 50
224	Nanocellulose-based multilayer barrier coatings for gas, oil, and grease resistance. <i>Carbohydrate Polymers</i> , <b>2019</b> , 206, 281-288	10.3 50
223	Chemical and spatial differentiation of syringyl and guaiacyl lignins in poplar wood via time-of-flight secondary ion mass spectrometry. <i>Analytical Chemistry</i> , <b>2011</b> , 83, 7020-6	7.8 49
222	Synthesis of soy protein-lignin nanofibers by solution electrospinning. <i>Reactive and Functional Polymers</i> , <b>2014</b> , 85, 221-227	4.6 46
221	A Novel Cellulose Nanocrystals-Based Approach To Improve the Mechanical Properties of Recycled Paper. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2013</b> , 1, 1584-1592	8.3 45
220	Nature-Inspired Liquid Infused Systems for Superwettable Surface Energies. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 21275-21293	9.5 41
219	Oxygen Delignification Chemistry and Its Impact on Pulp Fibers. <i>Journal of Wood Chemistry and Technology</i> , <b>2003</b> , 23, 13-29	2 40
218	Consequences of the nanoporosity of cellulosic fibers on their streaming potential and their interactions with cationic polyelectrolytes. <i>Cellulose</i> , <b>2007</b> , 14, 655-671	5.5 39
217	A Fiber-Aligned Thermal-Managed Wood-Based Superhydrophobic Aerogel for Efficient Oil Recovery. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 16428-16439	8.3 38
216	Isolation and characterization of lignins from <i>Eucalyptus grandis</i> Hill ex Maiden and <i>Eucalyptus globulus</i> Labill. by enzymatic mild acidolysis (EMAL). <i>Holzforschung</i> , <b>2008</b> , 62, 24-30	2 38
215	Understanding the pyrolysis of CCA-treated wood: Part I. Effect of metal ions. <i>Journal of Analytical and Applied Pyrolysis</i> , <b>2008</b> , 81, 60-64	6 38

214	Polymerization topochemistry of cellulose nanocrystals: a function of surface dehydration control. <i>Langmuir</i> , <b>2014</b> , 30, 14670-9	4	37
213	Water-wettable polypropylene fibers by facile surface treatment based on soy proteins. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2013</b> , 5, 6541-8	9.5	35
212	Novel preparation and characterization of cellulose microparticles functionalized in ionic liquids. <i>Langmuir</i> , <b>2009</b> , 25, 10116-20	4	35
211	Intramolecular Energy Transfer to trans-Stilbene. <i>Journal of Physical Chemistry A</i> , <b>1998</b> , 102, 5577-5584	2.8	35
210	A comparison of the pyrolysis behavior of selected $\beta$ -D-4 type lignin model compounds. <i>Journal of Analytical and Applied Pyrolysis</i> , <b>2017</b> , 125, 185-192	6	34
209	Quantitative $^{31}\text{P}$ NMR detection of oxygen-centered and carbon-centered radical species. <i>Bioorganic and Medicinal Chemistry</i> , <b>2006</b> , 14, 4017-28	3.4	34
208	Metal to ligand charge transfer photochemistry of Re(I)-alkyl complexes. <i>Inorganica Chimica Acta</i> , <b>1993</b> , 208, 103-106	2.7	34
207	Copper nanoparticles-sputtered bacterial cellulose nanocomposites displaying enhanced electromagnetic shielding, thermal, conduction, and mechanical properties. <i>Cellulose</i> , <b>2016</b> , 23, 3117-3127	5.5	33
206	The influence of the chemical and structural features of xylan on the physical properties of its derived hydrogels. <i>Soft Matter</i> , <b>2011</b> , 7, 1090-1099	3.6	33
205	Improving the physical and chemical functionality of starch-derived films with biopolymers. <i>Journal of Applied Polymer Science</i> , <b>2006</b> , 100, 2542-2548	2.9	33
204	Fluorine-based surface decorated cellulose nanocrystals as potential hydrophobic and oleophobic materials. <i>Cellulose</i> , <b>2015</b> , 22, 397-406	5.5	32
203	Hydrogel-Based Sensor Networks: Compositions, Properties, and Applications-A Review.. <i>ACS Applied Bio Materials</i> , <b>2021</b> , 4, 140-162	4.1	32
202	Outer Sphere Metal-to-Ligand Charge Transfer in Organometallic Ion Pairs. <i>Inorganic Chemistry</i> , <b>1997</b> , 36, 6224-6234	5.1	31
201	An environmentally benign approach to achieving vectorial alignment and high microporosity in bacterial cellulose/chitosan scaffolds. <i>RSC Advances</i> , <b>2017</b> , 7, 13678-13688	3.7	30
200	Adsorption of Chemically Modified Xylans on Eucalyptus Pulp and Its Effect on the Pulp Physical Properties. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2011</b> , 50, 1138-1145	3.9	30
199	Metal-based bacterial cellulose of sandwich nanomaterials for anti-oxidation electromagnetic interference shielding. <i>Materials and Design</i> , <b>2016</b> , 112, 374-382	8.1	30
198	Unique thermo-responsivity and tunable optical performance of poly(N-isopropylacrylamide)-cellulose nanocrystal hydrogel films. <i>Carbohydrate Polymers</i> , <b>2019</b> , 208, 495-503	10.3	30
197	Kinetic modeling of formic acid pulping of bagasse. <i>Journal of Agricultural and Food Chemistry</i> , <b>2008</b> , 56, 3097-101	5.7	29

196	Highly tunable bioadhesion and optics of 3D printable PNIPAm/cellulose nanofibrils hydrogels. <i>Carbohydrate Polymers</i> , <b>2020</b> , 234, 115898	10.3	28
195	The non-trivial role of native xylans on the preparation of TEMPO-oxidized cellulose nanofibrils. <i>Reactive and Functional Polymers</i> , <b>2014</b> , 85, 142-150	4.6	28
194	C-C Bond Fragmentation as a Probe for Photoinduced Intramolecular Electron Transfer. <i>The Journal of Physical Chemistry</i> , <b>1995</b> , 99, 1961-1968		27
193	High-Strength Antibacterial Chitosan-Cellulose Nanocrystal Composite Tissue Paper. <i>Langmuir</i> , <b>2019</b> , 35, 104-112	4	27
192	Two Schiff-base fluorescence probes based on triazole and benzotriazole for selective detection of Zn <sup>2+</sup> . <i>Sensors and Actuators B: Chemical</i> , <b>2016</b> , 227, 296-303	8.5	26
191	Characterization of Lignin Extracted from Willow by Deep Eutectic Solvent Treatments. <i>Polymers</i> , <b>2018</b> , 10,	4.5	26
190	The structural changes of lignin and lignin-carbohydrate complexes in corn stover induced by mild sodium hydroxide treatment. <i>RSC Advances</i> , <b>2014</b> , 4, 10845	3.7	26
189	Influence of Natural Biomaterials on the Absorbency and Transparency of Starch-Derived Films: An Optimization Study. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2007</b> , 46, 6480-6485	3.9	26
188	Laccase immobilized on PAN/O-MMT composite nanofibers support for substrate bioremediation: a de novo adsorption and biocatalytic synergy. <i>RSC Advances</i> , <b>2016</b> , 6, 41420-41427	3.7	26
187	Physical Study of the Primary and Secondary Photothermal Events in Gold/Cellulose Nanocrystals (AuNP/CNC) Nanocomposites Embedded in PVA Matrices. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2017</b> , 5, 1601-1609	8.3	25
186	Synthesis, characterization, and evaluation of chitosan-complexed starch nanoparticles on the physical properties of recycled paper furnish. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2013</b> , 5, 11029-37	9.5	25
185	Alkali extraction of hemicellulose from depithed corn stover and effects on soda-AQ pulping. <i>BioResources</i> , <b>2011</b> , 6, 196-206	1.3	25
184	Understanding shape and morphology of unusual tubular starch nanocrystals. <i>Carbohydrate Polymers</i> , <b>2016</b> , 151, 666-675	10.3	24
183	The influence of lignin-carbohydrate complexes on the cellulase-mediated saccharification I: Transgenic black cottonwood (western balsam poplar, California poplar) <i>P. trichocarpa</i> including the xylan down-regulated and the lignin down-regulated lines. <i>Fuel</i> , <b>2014</b> , 119, 207-213	7.1	24
182	Active Tara Gum/PVA Blend Films with Curcumin-Loaded CTAC Brush-TEMPO-Oxidized Cellulose Nanocrystals. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 8926-8934	8.3	24
181	Highly flexible, transparent, and conductive silver nanowire-attached bacterial cellulose conductors. <i>Cellulose</i> , <b>2018</b> , 25, 3189-3196	5.5	23
180	High performance nanocellulose-based composite coatings for oil and grease resistance. <i>Cellulose</i> , <b>2018</b> , 25, 3377-3391	5.5	23
179	Magnetic Cu <sub>0.5</sub> Co <sub>0.5</sub> Fe <sub>2</sub> O <sub>4</sub> ferrite nanoparticles immobilized in situ on the surfaces of cellulose nanocrystals. <i>Cellulose</i> , <b>2015</b> , 22, 2571-2587	5.5	23

178	Investigation of the Chemical Basis for Inefficient Lignin Removal in Softwood Kraft Pulp during Oxygen Delignification. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2003</b> , 42, 4269-4276	3.9	23
177	Capillary flooding of wood with microemulsions from Winsor I systems. <i>Journal of Colloid and Interface Science</i> , <b>2012</b> , 381, 171-9	9.3	22
176	A New Class of Biobased Paper Dry Strength Agents: Synthesis and Characterization of Soy-Based Polymers. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2015</b> , 3, 524-532	8.3	22
175	Products and Functional Group Distributions in Pyrolysis Oil of Chromated Copper Arsenate (CCA)-Treated Wood, as Elucidated by Gas Chromatography and a Novel 31P NMR-Based Method. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2007</b> , 46, 5258-5264	3.9	22
174	Direct Observation of Ultrafast C-C Bond Fragmentation in a Diamine Radical Cation. <i>The Journal of Physical Chemistry</i> , <b>1995</b> , 99, 11801-11804		22
173	Soy Protein-Based Polyelectrolyte Complexes as Biobased Wood Fiber Dry Strength Agents. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2014</b> , 2, 2267-2274	8.3	21
172	Adsorption of glycinin and $\beta$ -conglycinin on silica and cellulose: surface interactions as a function of denaturation, pH, and electrolytes. <i>Biomacromolecules</i> , <b>2012</b> , 13, 387-96	6.9	21
171	Spectral Monitoring of the Formation and Degradation of Polysulfide Ions in Alkaline Conditions. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2006</b> , 45, 7388-7392	3.9	21
170	Novel visualization studies of lignocellulosic oxidation chemistry by application of C-near edge X-ray absorption fine structure spectroscopy. <i>Cellulose</i> , <b>2005</b> , 12, 35-41	5.5	21
169	Direct observation of carbon-carbon bond fragmentation in $\alpha$ -amino alcohol radical cations. <i>The Journal of Physical Chemistry</i> , <b>1993</b> , 97, 9078-9080		21
168	The role of heteropolysaccharides in developing oxidized cellulose nanofibrils. <i>Carbohydrate Polymers</i> , <b>2016</b> , 144, 187-95	10.3	20
167	Understanding the pyrolysis of CCA-treated wood. <i>Journal of Analytical and Applied Pyrolysis</i> , <b>2008</b> , 82, 140-144	6	20
166	Photophysics of Tungsten and Molybdenum Arylcarbyne Complexes. Observation of the Lowest Excited State by Laser Flash Photolysis. <i>Inorganic Chemistry</i> , <b>1996</b> , 35, 7769-7775	5.1	20
165	Highly stretchable and bio-based sensors for sensitive strain detection of angular displacements. <i>Cellulose</i> , <b>2019</b> , 26, 3401-3413	5.5	20
164	New insights into the material chemistry of polycaprolactone-grafted cellulose nanofibrils/polyurethane nanocomposites. <i>Cellulose</i> , <b>2016</b> , 23, 2457-2473	5.5	19
163	RAFT synthesis of cellulose-g-polymethylmethacrylate copolymer in an ionic liquid. <i>Journal of Applied Polymer Science</i> , <b>2013</b> , 127, 4840-4849	2.9	19
162	Pseudo-Janus Zn/Al-based nanocomposites for Cr(VI) sorption/remediation and evolved photocatalytic functionality. <i>Chemical Engineering Journal</i> , <b>2015</b> , 277, 150-158	14.7	18
161	Preparation and Characterization of Activated Carbon from Hydrochar by Phosphoric Acid Activation and its Adsorption Performance in Prehydrolysis Liquor. <i>BioResources</i> , <b>2017</b> , 12,	1.3	18



160	Mechanistic Investigation of Rice Straw Lignin Subunit Bond Cleavages and Subsequent Formation of Monophenols. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 430-437	8.3	18
159	Quantitative Analyses of Lignin Hydrothermolysates from Subcritical Water and Water-Ethanol Systems. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2014</b> , 53, 10328-10334	3.9	18
158	Insights into the Potential of Hardwood Kraft Lignin to Be a Green Platform Material for Emergence of the Biorefinery. <i>Polymers</i> , <b>2020</b> , 12,	4.5	18
157	Tuning the Morphology of Microparticles from Spray Drying of Cellulose Nanocrystal Suspensions by Hydrophobic Lignin. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 5376-5384	8.3	17
156	Graft polymerization of $\epsilon$ -caprolactone to cellulose nanocrystals and optimization of grafting conditions utilizing a response surface methodology. <i>Nordic Pulp and Paper Research Journal</i> , <b>2014</b> , 29, 58-68	1.1	17
155	New Insights into Lignin Modification During Chlorine Dioxide Bleaching Sequences (I): Chlorine Dioxide Delignification. <i>Journal of Wood Chemistry and Technology</i> , <b>2005</b> , 24, 201-219	2	17
154	Investigation of the photo-oxidative chemistry of acetylated softwood lignin. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>2004</b> , 163, 215-221	4.7	17
153	Innovating Generation of Nanocellulose from Industrial Hemp by Dual Asymmetric Centrifugation. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> , 8, 1850-1858	8.3	17
152	Unique Dual Functions for Carbon Dots in Emulsion Preparations: Costabilization and Fluorescence Probing. <i>Langmuir</i> , <b>2015</b> , 31, 9537-45	4	16
151	Titanium Dioxide Catalyzed Photodegradation of Lignin in Industrial Effluents. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2004</b> , 43, 7996-8000	3.9	16
150	Photooxidation of a Conjugated Diene by an Exciplex Mechanism: Amplification via Radical Chain Reactions in the Perylene Diimide-Photosensitized Oxidation of $\beta$ -Terpinene. <i>Journal of Physical Chemistry A</i> , <b>1998</b> , 102, 9095-9098	2.8	16
149	Synthesis and Characterization of Alkali Lignin-based Hydrogels from Ionic Liquids. <i>BioResources</i> , <b>2017</b> , 12,	1.3	15
148	A simple method to tune the gross antibacterial activity of cellulosic biomaterials. <i>Carbohydrate Polymers</i> , <b>2007</b> , 69, 805-810	10.3	14
147	Fiber nanotechnology: a new platform for "green" research and technological innovations. <i>Cellulose</i> , <b>2007</b> , 14, 539-542	5.5	14
146	Influence of Natural Biomaterials on the Elastic Properties of Starch-Derived Films: An Optimization Study. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2006</b> , 45, 627-633	3.9	14
145	Novel all-cellulose composite displaying aligned cellulose nanofibers reinforced with cellulose nanocrystals. <i>Tappi Journal</i> , <b>2011</b> , 10, 19-25	0.5	14
144	Crustacean shell-based biosorption water remediation platforms: Status and perspectives. <i>Journal of Environmental Management</i> , <b>2019</b> , 231, 757-762	7.9	14
143	Lipase-catalyzed laurate esterification of cellulose nanocrystals and their use as reinforcement in PLA composites. <i>Cellulose</i> , <b>2020</b> , 27, 6263-6273	5.5	13

142	Structural reconstruction strategies for the design of cellulose nanomaterials and aligned wood cellulose-based functional materials - A review. <i>Carbohydrate Polymers</i> , <b>2020</b> , 247, 116722	10.3	13
141	Reinforcement Effects of Inorganic Nanoparticles for Double-Network Hydrogels. <i>Macromolecular Materials and Engineering</i> , <b>2015</b> , 300, 1290-1299	3.9	13
140	Lignin: Functional Biomaterial with Potential in Surface Chemistry and Nanoscience <b>2009</b> , 173-205		13
139	New insights into the fundamental nature of lignocellulosic fiber surface charge. <i>Journal of Colloid and Interface Science</i> , <b>2004</b> , 275, 392-7	9.3	13
138	Stabilization of chitosan-based polyelectrolyte nanoparticle cargo delivery biomaterials by a multiple ionic cross-linking strategy. <i>Carbohydrate Polymers</i> , <b>2020</b> , 231, 115709	10.3	13
137	Super Stable and Tough Hydrogel Containing Covalent, Crystalline, and Ionic Cross-Links. <i>Macromolecular Chemistry and Physics</i> , <b>2016</b> , 217, 32-38	2.6	13
136	Bioengineering tunable porosity in bacterial nanocellulose matrices. <i>Soft Matter</i> , <b>2019</b> , 15, 9359-9367	3.6	13
135	The morphology, self-assembly, and host-guest properties of cellulose nanocrystals surface grafted with cholesterol. <i>Carbohydrate Polymers</i> , <b>2020</b> , 233, 115840	10.3	12
134	Near-Infrared Spectroscopy and Chemometric Analysis for Determining Oxygen Delignification Yield. <i>Journal of Wood Chemistry and Technology</i> , <b>2008</b> , 28, 122-136	2	12
133	Development of a Highly Efficient Pretreatment Sequence for the Enzymatic Saccharification of Loblolly Pine Wood. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2016</b> , 4, 3669-3678	8.3	12
132	Acid-generated soy protein hydrolysates and their interfacial behavior on model surfaces. <i>Biomacromolecules</i> , <b>2014</b> , 15, 4336-42	6.9	11
131	Adsorption of cationized eucalyptus heteropolysaccharides onto chemical and mechanical pulp fibers. <i>Carbohydrate Polymers</i> , <b>2015</b> , 123, 324-30	10.3	11
130	Survey of soy protein flour as a novel dry strength agent for papermaking furnishes. <i>Journal of Agricultural and Food Chemistry</i> , <b>2012</b> , 60, 9828-33	5.7	11
129	Comparative Evaluation of Oxygen Delignification Processes for Low- and High-Lignin-Content Softwood Kraft Pulps. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2002</b> , 41, 5171-5180	3.9	11
128	The Topochemistry of Cellulose Nanofibrils as a Function of Mechanical Generation Energy. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> , 8, 1471-1478	8.3	11
127	Modeling pyrolytic behavior of pre-oxidized lignin using four representative ether-type lignin-like model polymers. <i>Fuel Processing Technology</i> , <b>2018</b> , 176, 221-229	7.2	11
126	Bentonite-supported nanoscale zero-valent iron granulated electrodes for industrial wastewater remediation. <i>RSC Advances</i> , <b>2017</b> , 7, 44605-44613	3.7	10
125	Quantitative Molecular Structure Pyrolytic Energy Correlation for Hardwood Lignins. <i>Energy &amp; Fuels</i> , <b>2012</b> , 26, 1315-1322	4.1	10



124	Cooperative Electron Transfer Fragmentation Reactions. Amplification of a Photoreaction through A Tandem Chain Fragmentation of Acceptor and Donor Pinacols. <i>Journal of the American Chemical Society</i> , <b>1998</b> , 120, 439-440	16.4	10
123	Photoinduced Charge Separation Promoted by Ring Opening of a Piperazine Radical Cation. <i>Journal of the American Chemical Society</i> , <b>1996</b> , 118, 3057-3058	16.4	10
122	Cage escape yields for photoinduced bimolecular electron transfer reactions of Re(I) complexes. <i>Inorganica Chimica Acta</i> , <b>1994</b> , 225, 41-49	2.7	10
121	Cholesterol-modified lignin: A new avenue for green nanoparticles, meltable materials, and drug delivery. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2020</b> , 186, 110685	6	10
120	Supercritical Water-induced Lignin Decomposition Reactions: A Structural and Quantitative Study. <i>BioResources</i> , <b>2016</b> , 11,	1.3	10
119	In situ 3D bacterial cellulose/nitrogen-doped graphene oxide quantum dot-based membrane fluorescent probes for aggregation-induced detection of iron ions. <i>Cellulose</i> , <b>2019</b> , 26, 6073-6086	5.5	9
118	Modeling the pyrolytic behavior of lignin through two representative monomers: Vanillin and acetovanillone. <i>Journal of Analytical and Applied Pyrolysis</i> , <b>2018</b> , 130, 241-248	6	9
117	Catalysis of Glucose to 5-Hydroxymethylfurfural using Sn-Beta Zeolites and a Brønsted Acid in Biphasic Systems. <i>BioResources</i> , <b>2015</b> , 10,	1.3	9
116	Chemicals, Materials, and Energy from Biomass: A Review. <i>ACS Symposium Series</i> , <b>2007</b> , 2-30	0.4	9
115	New Insights into Lignin Modification during Chlorine Dioxide Bleaching Sequences (III): The Impact of Modifications in the (EO) versus E Stage on the D1 Stage. <i>Journal of Wood Chemistry and Technology</i> , <b>2005</b> , 25, 133-147	2	9
114	Ecofriendly and innovative processing of hemp hurds fibers for tissue and towel paper. <i>BioResources</i> , <b>2020</b> , 15, 706-720	1.3	9
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