

Arthur J Ragauskas

List of Publications by Year in descending order

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658
papers

49,338
citations

1994

101
h-index

2747

192
g-index

684
all docs

684
docs citations

684
times ranked

30841
citing authors

#	ARTICLE	IF	CITATIONS
1	The Path Forward for Biofuels and Biomaterials. <i>Science</i> , 2006, 311, 484-489.	12.6	4,935
2	Lignin Valorization: Improving Lignin Processing in the Biorefinery. <i>Science</i> , 2014, 344, 1246843.	12.6	2,994
3	Deep Eutectic Solvents: A Review of Fundamentals and Applications. <i>Chemical Reviews</i> , 2021, 121, 1232-1285.	47.7	1,334
4	Review of current and future softwood kraft lignin process chemistry. <i>Industrial Crops and Products</i> , 2004, 20, 131-141.	5.2	961
5	Genetic manipulation of lignin reduces recalcitrance and improves ethanol production from switchgrass. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 3803-3808.	7.1	585
6	From lignin to valuable products—strategies, challenges, and prospects. <i>Bioresource Technology</i> , 2019, 271, 449-461.	9.6	565
7	Poplar as a feedstock for biofuels: A review of compositional characteristics. <i>Biofuels, Bioproducts and Biorefining</i> , 2010, 4, 209-226.	3.7	558
8	Ionic Liquid as a Green Solvent for Lignin. <i>Journal of Wood Chemistry and Technology</i> , 2007, 27, 23-33.	1.7	484
9	Assessing the molecular structure basis for biomass recalcitrance during dilute acid and hydrothermal pretreatments. <i>Biotechnology for Biofuels</i> , 2013, 6, 15.	6.2	468
10	Application of quantitative ³¹ P NMR in biomass lignin and biofuel precursors characterization. <i>Energy and Environmental Science</i> , 2011, 4, 3154.	30.8	447
11	Pseudo-lignin and pretreatment chemistry. <i>Energy and Environmental Science</i> , 2011, 4, 1306-1310.	30.8	423
12	Characterization of milled wood lignin and ethanol organosolv lignin from miscanthus. <i>Polymer Degradation and Stability</i> , 2009, 94, 1632-1638.	5.8	414
13	The critical role of lignin in lignocellulosic biomass conversion and recent pretreatment strategies: A comprehensive review. <i>Bioresource Technology</i> , 2020, 301, 122784.	9.6	396
14	Pretreatment and Lignocellulosic Chemistry. <i>Bioenergy Research</i> , 2012, 5, 1043-1066.	3.9	366
15	<i>Miscanthus</i> : a fast-growing crop for biofuels and chemicals production. <i>Biofuels, Bioproducts and Biorefining</i> , 2012, 6, 580-598.	3.7	360
16	Natural deep eutectic solvents for lignocellulosic biomass pretreatment: Recent developments, challenges and novel opportunities. <i>Biotechnology Advances</i> , 2018, 36, 2032-2050.	11.7	346
17	Characterization and analysis of the molecular weight of lignin for biorefining studies. <i>Biofuels, Bioproducts and Biorefining</i> , 2014, 8, 836-856.	3.7	343
18	Recent advances in understanding the role of cellulose accessibility in enzymatic hydrolysis of lignocellulosic substrates. <i>Current Opinion in Biotechnology</i> , 2014, 27, 150-158.	6.6	342

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19	Pseudo-lignin formation and its impact on enzymatic hydrolysis. <i>Bioresource Technology</i> , 2012, 117, 7-12.	9.6	327
20	Recent advancements of plant-based natural fiberâ€“reinforced composites and their applications. <i>Composites Part B: Engineering</i> , 2020, 200, 108254.	12.0	323
21	Synthetic Applications of Laccase in Green Chemistry. <i>Advanced Synthesis and Catalysis</i> , 2009, 351, 1187-1209.	4.3	296
22	Enhanced enzymatic hydrolysis of spruce by alkaline pretreatment at low temperature. <i>Biotechnology and Bioengineering</i> , 2008, 99, 1320-1328.	3.3	281
23	Lignin Pyrolysis Components and Upgradingâ€“Technology Review. <i>Bioenergy Research</i> , 2013, 6, 1183-1204.	3.9	280
24	Current Understanding of the Correlation of Lignin Structure with Biomass Recalcitrance. <i>Frontiers in Chemistry</i> , 2016, 4, 45.	3.6	279
25	Improving the mechanical and thermal properties of gelatin hydrogels cross-linked by cellulose nanowhiskers. <i>Carbohydrate Polymers</i> , 2013, 91, 638-645.	10.2	277
26	Determination of hydroxyl groups in biorefinery resources via quantitative ³¹ P NMR spectroscopy. <i>Nature Protocols</i> , 2019, 14, 2627-2647.	12.0	272
27	Recent advances in understanding the pseudo-lignin formation in a lignocellulosic biorefinery. <i>Green Chemistry</i> , 2018, 20, 2192-2205.	9.0	269
28	The frontiers of energy. <i>Nature Energy</i> , 2016, 1, .	39.5	253
29	Observation of Potential Contaminants in Processed Biomass Using Fourier Transform Infrared Spectroscopy. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 4345.	2.5	249
30	High performance green barriers based on nanocellulose. <i>Sustainable Chemical Processes</i> , 2014, 2, .	2.3	246
31	Ionic liquids: Promising green solvents for lignocellulosic biomass utilization. <i>Current Opinion in Green and Sustainable Chemistry</i> , 2017, 5, 5-11.	5.9	238
32	Structural Characterization and Comparison of Switchgrass Ball-milled Lignin Before and After Dilute Acid Pretreatment. <i>Applied Biochemistry and Biotechnology</i> , 2010, 162, 62-74.	2.9	227
33	Analyzing cellulose degree of polymerization and its relevancy to cellulosic ethanol. <i>Biofuels, Bioproducts and Biorefining</i> , 2011, 5, 215-225.	3.7	224
34	The new forestry biofuels sector. <i>Biofuels, Bioproducts and Biorefining</i> , 2008, 2, 58-73.	3.7	219
35	Investigation of lignin deposition on cellulose during hydrothermal pretreatment, its effect on cellulose hydrolysis, and underlying mechanisms. <i>Biotechnology and Bioengineering</i> , 2014, 111, 485-492.	3.3	214
36	From wood to fuels: Integrating biofuels and pulp production. <i>Industrial Biotechnology</i> , 2006, 2, 55-65.	0.8	213

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37	Lignin-enzyme interaction: A roadblock for efficient enzymatic hydrolysis of lignocellulosics. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 154, 111822.	16.4	211
38	Facile synthesis of spherical cellulose nanoparticles. <i>Carbohydrate Polymers</i> , 2007, 69, 607-611.	10.2	208
39	Effects of process severity on the chemical structure of <i>Miscanthus</i> ethanol organosolv lignin. <i>Polymer Degradation and Stability</i> , 2010, 95, 997-1003.	5.8	207
40	Effect of acid-chlorite delignification on cellulose degree of polymerization. <i>Bioresource Technology</i> , 2010, 101, 7410-7415.	9.6	207
41	NMR Characterization of Pyrolysis Oils from Kraft Lignin. <i>Energy & Fuels</i> , 2011, 25, 2322-2332.	5.1	205
42	A critical review on the analysis of lignin carbohydrate bonds. <i>Green Chemistry</i> , 2019, 21, 1573-1595.	9.0	204
43	From lignin association to nano-/micro-particle preparation: extracting higher value of lignin. <i>Green Chemistry</i> , 2016, 18, 5693-5700.	9.0	203
44	High Shear Homogenization of Lignin to Nanolignin and Thermal Stability of Nanolignin/Polyvinyl Alcohol Blends. <i>ChemSusChem</i> , 2014, 7, 3513-3520.	6.8	199
45	Common processes drive the thermochemical pretreatment of lignocellulosic biomass. <i>Green Chemistry</i> , 2014, 16, 63-68.	9.0	198
46	Switchgrass as an energy crop for biofuel production: A review of its ligno-cellulosic chemical properties. <i>Energy and Environmental Science</i> , 2010, 3, 1182.	30.8	194
47	The fate of lignin during hydrothermal pretreatment. <i>Biotechnology for Biofuels</i> , 2013, 6, 110.	6.2	191
48	Lignin as a UV Light Blocker—A Review. <i>Polymers</i> , 2020, 12, 1134.	4.5	190
49	Kraft Lignin-Based Rigid Polyurethane Foam. <i>Journal of Wood Chemistry and Technology</i> , 2012, 32, 210-224.	1.7	177
50	Comparison of laboratory delignification methods, their selectivity, and impacts on physiochemical characteristics of cellulosic biomass. <i>Bioresource Technology</i> , 2013, 130, 372-381.	9.6	177
51	Carbohydrate derived pseudo-lignin can retard cellulose biological conversion. <i>Biotechnology and Bioengineering</i> , 2013, 110, 737-753.	3.3	174
52	A review of sugarcane bagasse for second-generation bioethanol and biopower production. <i>Biofuels, Bioproducts and Biorefining</i> , 2016, 10, 634-647.	3.7	173
53	Synergistic enzymatic and microbial lignin conversion. <i>Green Chemistry</i> , 2016, 18, 1306-1312.	9.0	172
54	Lipids from heterotrophic microbes: advances in metabolism research. <i>Trends in Biotechnology</i> , 2011, 29, 53-61.	9.3	170

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55	Lignin Structural Modifications Resulting from Ethanol Organosolv Treatment of Loblolly Pine. <i>Energy & Fuels</i> , 2010, 24, 683-689.	5.1	169
56	Plastic waste upcycling toward a circular economy. <i>Chemical Engineering Journal</i> , 2022, 428, 131928.	12.7	169
57	Copper(II)-Catalyzed Aerobic Oxidation of Primary Alcohols to Aldehydes in Ionic Liquid [bmpy]PF ₆ . <i>Organic Letters</i> , 2005, 7, 3689-3692.	4.6	166
58	4-O-methylation of glucuronic acid in <i>Arabidopsis</i> glucuronoxylan is catalyzed by a domain of unknown function family 579 protein. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 14253-14258.	7.1	164
59	Pretreatment of <i>Miscanthus x giganteus</i> Using the Ethanol Organosolv Process for Ethanol Production. <i>Industrial & Engineering Chemistry Research</i> , 2009, 48, 8328-8334.	3.7	162
60	Effects of Two-Stage Dilute Acid Pretreatment on the Structure and Composition of Lignin and Cellulose in Loblolly Pine. <i>Bioenergy Research</i> , 2008, 1, 205-214.	3.9	161
61	Lignin extraction and upgrading using deep eutectic solvents. <i>Industrial Crops and Products</i> , 2020, 147, 112241.	5.2	159
62	Cu(II)-Catalyzed Selective Aerobic Oxidation of Alcohols under Mild Conditions. <i>Journal of Organic Chemistry</i> , 2006, 71, 7087-7090.	3.2	158
63	Cellulase kinetics as a function of cellulose pretreatment. <i>Metabolic Engineering</i> , 2008, 10, 370-381.	7.0	157
64	Effects of organosolv pretreatment and enzymatic hydrolysis on cellulose structure and crystallinity in Loblolly pine. <i>Carbohydrate Research</i> , 2010, 345, 965-970.	2.3	153
65	Bioconversion of lignin model compounds with oleaginous Rhodococci. <i>Applied Microbiology and Biotechnology</i> , 2012, 93, 891-900.	3.6	153
66	Mechanical deconstruction of lignocellulose cell walls and their enzymatic saccharification. <i>Cellulose</i> , 2013, 20, 807-818.	4.9	148
67	Insights into the effect of dilute acid, hot water or alkaline pretreatment on the cellulose accessible surface area and the overall porosity of <i>Populus</i> . <i>Green Chemistry</i> , 2015, 17, 4239-4246.	9.0	146
68	Effects of organosolv and ammonia pretreatments on lignin properties and its inhibition for enzymatic hydrolysis. <i>Green Chemistry</i> , 2017, 19, 2006-2016.	9.0	145
69	Breakdown of Cell Wall Nanostructure in Dilute Acid Pretreated Biomass. <i>Biomacromolecules</i> , 2010, 11, 2329-2335.	5.4	143
70	OsCESA9 conserved site mutation leads to largely enhanced plant lodging resistance and biomass enzymatic saccharification by reducing cellulose DP and crystallinity in rice. <i>Plant Biotechnology Journal</i> , 2017, 15, 1093-1104.	8.3	143
71	Sustainable energy and fuels from biomass: a review focusing on hydrothermal biomass processing. <i>Sustainable Energy and Fuels</i> , 2020, 4, 4390-4414.	4.9	140
72	The Effect of Alkaline Pretreatment Methods on Cellulose Structure and Accessibility. <i>ChemSusChem</i> , 2015, 8, 275-279.	6.8	139

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73	Chemical transformations of <i>Populus trichocarpa</i> during dilute acid pretreatment. <i>RSC Advances</i> , 2012, 2, 10925.	3.6	138
74	Sugar release and growth of biofuel crops are improved by downregulation of pectin biosynthesis. <i>Nature Biotechnology</i> , 2018, 36, 249-257.	17.5	136
75	Cellulosic biorefineries—unleashing lignin opportunities. <i>Current Opinion in Environmental Sustainability</i> , 2010, 2, 383-393.	6.3	134
76	Rice straw as a feedstock for biofuels: Availability, recalcitrance, and chemical properties. <i>Biofuels, Bioproducts and Biorefining</i> , 2018, 12, 83-107.	3.7	133
77	Changes in lignocellulosic supramolecular and ultrastructure during dilute acid pretreatment of <i>Populus</i> and switchgrass. <i>Biomass and Bioenergy</i> , 2010, 34, 1885-1895.	5.7	132
78	Lignin to lipid bioconversion by oleaginous <i>Rhodococci</i> . <i>Green Chemistry</i> , 2013, 15, 2070.	9.0	129
79	Structural Characterization of Switchgrass Lignin after Ethanol Organosolv Pretreatment. <i>Energy & Fuels</i> , 2012, 26, 740-745.	5.1	127
80	Perspective on Technical Lignin Fractionation. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 8086-8101.	6.7	126
81	Cellulose nanowhisker foams by freeze casting. <i>Carbohydrate Polymers</i> , 2012, 88, 789-792.	10.2	125
82	The emergence of <i>Clostridium thermocellum</i> as a high utility candidate for consolidated bioprocessing applications. <i>Frontiers in Chemistry</i> , 2014, 2, 66.	3.6	124
83	A novel nanocomposite film prepared from crosslinked cellulosic whiskers. <i>Carbohydrate Polymers</i> , 2009, 75, 85-89.	10.2	123
84	Fractionation of Organosolv Lignin Using Acetone:Water and Properties of the Obtained Fractions. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 580-587.	6.7	121
85	Inhibitory effects of lignin on enzymatic hydrolysis: The role of lignin chemistry and molecular weight. <i>Renewable Energy</i> , 2018, 123, 664-674.	8.9	121
86	Systems biology-guided biodesign of consolidated lignin conversion. <i>Green Chemistry</i> , 2016, 18, 5536-5547.	9.0	119
87	Enhanced characteristics of genetically modified switchgrass (<i>Panicum virgatum</i> L.) for high biofuel production. <i>Biotechnology for Biofuels</i> , 2013, 6, 71.	6.2	118
88	Bioconversion of oxygen-pretreated Kraft lignin to microbial lipid with oleaginous <i>Rhodococcus opacus</i> DSM 1069. <i>Green Chemistry</i> , 2015, 17, 2784-2789.	9.0	117
89	Chemical Transformations of <i>Buddleja davidii</i> Lignin during Ethanol Organosolv Pretreatment. <i>Energy & Fuels</i> , 2010, 24, 2723-2732.	5.1	116
90	Influence of Si/Al Ratio of ZSM-5 Zeolite on the Properties of Lignin Pyrolysis Products. <i>ACS Sustainable Chemistry and Engineering</i> , 2013, 1, 316-324.	6.7	116

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91	Synergistic maximization of the carbohydrate output and lignin processability by combinatorial pretreatment. <i>Green Chemistry</i> , 2017, 19, 4939-4955.	9.0	116
92	Identifying and creating pathways to improve biological lignin valorization. <i>Renewable and Sustainable Energy Reviews</i> , 2019, 105, 349-362.	16.4	116
93	Chemical Structure of Residual Lignin from Kraft Pulp. <i>Journal of Wood Chemistry and Technology</i> , 1996, 16, 347-365.	1.7	114
94	Ethanol organosolv lignin-based rigid polyurethane foam reinforced with cellulose nanowhiskers. <i>RSC Advances</i> , 2012, 2, 3347.	3.6	112
95	Determination of porosity of lignocellulosic biomass before and after pretreatment by using Simonsâ€™ stain and NMR techniques. <i>Bioresource Technology</i> , 2013, 144, 467-476.	9.6	112
96	Effect of torrefaction on biomass structure and hydrocarbon production from fast pyrolysis. <i>Green Chemistry</i> , 2015, 17, 2406-2417.	9.0	112
97	Three lignocellulose features that distinctively affect biomass enzymatic digestibility under NaOH and H ₂ SO ₄ pretreatments in <i>Miscanthus</i> . <i>Bioresource Technology</i> , 2013, 130, 30-37.	9.6	111
98	A Genomics Approach to Deciphering Lignin Biosynthesis in Switchgrass. <i>Plant Cell</i> , 2013, 25, 4342-4361.	6.6	109
99	Diol pretreatment to fractionate a reactive lignin in lignocellulosic biomass biorefineries. <i>Green Chemistry</i> , 2019, 21, 2788-2800.	9.0	109
100	Alignment of Cellulose Nanofibers: Harnessing Nanoscale Properties to Macroscale Benefits. <i>ACS Nano</i> , 2021, 15, 3646-3673.	14.6	108
101	Structural characterization of alkaline hydrogen peroxide pretreated grasses exhibiting diverse lignin phenotypes. <i>Biotechnology for Biofuels</i> , 2012, 5, 38.	6.2	106
102	An In-Depth Understanding of Biomass Recalcitrance Using Natural Poplar Variants as the Feedstock. <i>ChemSusChem</i> , 2017, 10, 139-150.	6.8	106
103	Selective Aerobic Oxidation of Activated Alcohols into Acids or Aldehydes in Ionic Liquids. <i>Journal of Organic Chemistry</i> , 2007, 72, 7030-7033.	3.2	105
104	NMR a critical tool to study the production of carbon fiber from lignin. <i>Carbon</i> , 2013, 52, 65-73.	10.3	103
105	Effects of the advanced organosolv pretreatment strategies on structural properties of woody biomass. <i>Industrial Crops and Products</i> , 2020, 146, 112144.	5.2	103
106	Increase in 4-Coumaryl Alcohol Units during Lignification in Alfalfa (<i>Medicago sativa</i>) Alters the Extractability and Molecular Weight of Lignin. <i>Journal of Biological Chemistry</i> , 2010, 285, 38961-38968.	3.4	102
107	Vanadium-catalyzed selective aerobic alcohol oxidation in ionic liquid [bmim]PF ₆ . <i>Tetrahedron Letters</i> , 2007, 48, 273-276.	1.4	101
108	Pyrolysis of Kraft Lignin with Additives. <i>Energy & Fuels</i> , 2011, 25, 4662-4668.	5.1	101

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109	Biotechnological opportunities with the Î ² -ketoacid pathway. Trends in Biotechnology, 2012, 30, 627-637.	9.3	101
110	Significance of Lignin S/G Ratio in Biomass Recalcitrance of <i>Populus trichocarpa</i> Variants for Bioethanol Production. ACS Sustainable Chemistry and Engineering, 2018, 6, 2162-2168.	6.7	100
111	Critical review of FDM 3D printing of PLA biocomposites filled with biomass resources, characterization, biodegradability, upcycling and opportunities for biorefineries. Applied Materials Today, 2021, 24, 101078.	4.3	100
112	Molecular Recognition of a Salmonella Trisaccharide Epitope by Monoclonal Antibody Se155-4. Biochemistry, 1994, 33, 5172-5182.	2.5	99
113	Pyrolysis oils from CO ₂ precipitated Kraft lignin. Green Chemistry, 2011, 13, 3196.	9.0	99
114	Torrefaction of Loblolly pine. Green Chemistry, 2012, 14, 72-76.	9.0	99
115	Chemical Transformations of Poplar Lignin during Cosolvent Enhanced Lignocellulosic Fractionation Process. ACS Sustainable Chemistry and Engineering, 2018, 6, 8711-8718.	6.7	99
116	Characterization of cellulose nanofibrillation by micro grinding. Journal of Nanoparticle Research, 2014, 16, 1.	1.9	98
117	Biomass Characterization of <i>Buddleja davidii</i> : A Potential Feedstock for Biofuel Production. Journal of Agricultural and Food Chemistry, 2009, 57, 1275-1281.	5.2	97
118	Chemical profiles of switchgrass. Bioresource Technology, 2010, 101, 3253-3257.	9.6	97
119	Defining lignin nanoparticle properties through tailored lignin reactivity by sequential organosolv fragmentation approach (SOFA). Green Chemistry, 2019, 21, 245-260.	9.0	97
120	Down-regulation of the caffeic acid O-methyltransferase gene in switchgrass reveals a novel monolignol analog. Biotechnology for Biofuels, 2012, 5, 71.	6.2	96
121	CP/MAS 13C NMR analysis of cellulase treated bleached softwood kraft pulp. Carbohydrate Research, 2006, 341, 591-597.	2.3	94
122	Review of NMR Characterization of Pyrolysis Oils. Energy & Fuels, 2016, 30, 6863-6880.	5.1	94
123	Evaluating laccase-facilitated coupling of phenolic acids to high-yield kraft pulps. Enzyme and Microbial Technology, 2002, 30, 855-861.	3.2	93
124	Heteronuclear Single-Quantum Correlation Nuclear Magnetic Resonance (HSQC-NMR) Fingerprint Analysis of Pyrolysis Oils. Energy & Fuels, 2011, 25, 5791-5801.	5.1	93
125	Characterization of CO ₂ precipitated Kraft lignin to promote its utilization. Green Chemistry, 2010, 12, 31-34.	9.0	92
126	Evaluation of grape stalks as a bioresource. Industrial Crops and Products, 2011, 33, 200-204.	5.2	92

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127	A finalized determinant for complete lignocellulose enzymatic saccharification potential to maximize bioethanol production in bioenergy Miscanthus. <i>Biotechnology for Biofuels</i> , 2019, 12, 99.	6.2	92
128	HSQC (heteronuclear single quantum coherence) ^{13}C - ^1H correlation spectra of whole biomass in perdeuterated pyridinium chloride-DMSO system: An effective tool for evaluating pretreatment. <i>Fuel</i> , 2011, 90, 2836-2842.	6.4	91
129	Synthesis, Characterization, and Utilization of a Lignin-Based Adsorbent for Effective Removal of Azo Dye from Aqueous Solution. <i>ACS Omega</i> , 2020, 5, 2865-2877.	3.5	91
130	Effect of Ethanol Organosolv Pretreatment on Enzymatic Hydrolysis of <i>Buddleja davidii</i> Stem Biomass. <i>Industrial & Engineering Chemistry Research</i> , 2010, 49, 1467-1472.	3.7	90
131	Biomass Characterization: Recent Progress in Understanding Biomass Recalcitrance. <i>Industrial Biotechnology</i> , 2012, 8, 191-208.	0.8	90
132	Hydrogels Prepared from Cross-Linked Nanofibrillated Cellulose. <i>ACS Sustainable Chemistry and Engineering</i> , 2014, 2, 772-780.	6.7	90
133	Effects of Lignin Structure on Hydrodeoxygenation Reactivity of Pine Wood Lignin to Valuable Chemicals. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 1824-1830.	6.7	90
134	Structural changes in switchgrass lignin and hemicelluloses during pretreatments by NMR analysis. <i>Polymer Degradation and Stability</i> , 2011, 96, 2002-2009.	5.8	88
135	The effect of liquid hot water pretreatment on the chemical structural alteration and the reduced recalcitrance in poplar. <i>Biotechnology for Biofuels</i> , 2017, 10, 237.	6.2	88
136	Synthesis of a novel cellulose nanowhisker-based drug delivery system. <i>RSC Advances</i> , 2012, 2, 3403.	3.6	87
137	Water transmission barrier properties of biodegradable films based on cellulosic whiskers and xylan. <i>Carbohydrate Polymers</i> , 2009, 78, 357-360.	10.2	85
138	A study of poplar organosolv lignin after melt rheology treatment as carbon fiber precursors. <i>Green Chemistry</i> , 2016, 18, 5015-5024.	9.0	85
139	Characterization of Milled Wood Lignin (MWL) in Loblolly Pine Stem Wood, Residue, and Bark. <i>Journal of Agricultural and Food Chemistry</i> , 2011, 59, 12910-12916.	5.2	84
140	Moisture barrier properties of xylan composite films. <i>Carbohydrate Polymers</i> , 2011, 84, 1371-1377.	10.2	84
141	Two Decades of Laccases: Advancing Sustainability in the Chemical Industry. <i>Chemical Record</i> , 2017, 17, 122-140.	5.8	84
142	Fast Fractionation of Technical Lignins by Organic Cosolvents. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 6064-6072.	6.7	84
143	Catalytic hydrogenolysis of ethanol organosolv lignin. <i>Holzforschung</i> , 2009, 63, 513-520.	1.9	83
144	Investigation of a Lignin-Based Deep Eutectic Solvent Using <i>p</i> -Hydroxybenzoic Acid for Efficient Woody Biomass Conversion. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 12542-12553.	6.7	83

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145	NMR Characterization of C3H and HCT Down-Regulated Alfalfa Lignin. <i>Bioenergy Research</i> , 2009, 2, 198-208.	3.9	82
146	Insights of biomass recalcitrance in natural <i>Populus trichocarpa</i> variants for biomass conversion. <i>Green Chemistry</i> , 2017, 19, 5467-5478.	9.0	82
147	Modification of high-lignin softwood kraft pulp with laccase and amino acids. <i>Enzyme and Microbial Technology</i> , 2009, 44, 176-181.	3.2	81
148	Ethanol: A Promising Green Solvent for the Deconstruction of Lignocellulose. <i>ChemSusChem</i> , 2018, 11, 3559-3575.	6.8	81
149	Oxidation and sulfonation of cellulose. <i>Cellulose</i> , 2008, 15, 489-496.	4.9	80
150	Defined tetra-allelic gene disruption of the 4-coumarate:coenzyme A ligase 1 (Pv4CL1) gene by CRISPR/Cas9 in switchgrass results in lignin reduction and improved sugar release. <i>Biotechnology for Biofuels</i> , 2017, 10, 284.	6.2	80
151	Characterization of fractional cuts of co-solvent enhanced lignocellulosic fractionation lignin isolated by sequential precipitation. <i>Bioresource Technology</i> , 2019, 272, 202-208.	9.6	80
152	TEMPO-catalyzed oxidation of benzylic alcohols to aldehydes with the H ₂ O ₂ /HBr/ionic liquid [bmim]PF ₆ system. <i>Tetrahedron Letters</i> , 2005, 46, 3323-3326.	1.4	79
153	Catalytic fast co-pyrolysis of bamboo sawdust and waste tire using a tandem reactor with cascade bubbling fluidized bed and fixed bed system. <i>Energy Conversion and Management</i> , 2019, 180, 60-71.	9.2	79
154	Production of ethanol from carbohydrates from loblolly pine: A technical and economic assessment. <i>Bioresource Technology</i> , 2008, 99, 5051-5057.	9.6	78
155	Modification of High Lignin Content Kraft Pulps with Laccase to Improve Paper Strength Properties. 1. Laccase Treatment in the Presence of Gallic Acid. <i>Biotechnology Progress</i> , 2008, 20, 255-261.	2.6	77
156	The occurrence of tricetin and its derivatives in plants. <i>Green Chemistry</i> , 2016, 18, 1439-1454.	9.0	77
157	A biomass pretreatment using cellulose-derived solvent Cyrene. <i>Green Chemistry</i> , 2020, 22, 2862-2872.	9.0	77
158	Recent Advances in Functional Materials through Cellulose Nanofiber Templating. <i>Advanced Materials</i> , 2021, 33, e2005538.	21.0	77
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