Arthur J Ragauskas

List of Publications by Year
in descending order

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	A Facile Degumming Method of Kenaf Fibers Using Deep Eutectic Solution. Journal of Natural Fibers, 2022, 19, 1115-1125.	3.1	18
2	Unlocking the secret of lignin-enzyme interactions: Recent advances in developing state-of-the-art analytical techniques. Biotechnology Advances, 2022, 54, 107830.	11.7	44
3	Opportunities and challenges for flow-through hydrothermal pretreatment in advanced biorefineries. Bioresource Technology, 2022, 343, 126061.	9.6	14
4	Plastic waste upcycling toward a circular economy. Chemical Engineering Journal, 2022, 428, 131928.	12.7	169
5	Highly selective hydrogenation of phenol to cyclohexanone over a Pd-loaded N-doped carbon catalyst derived from chitosan. Journal of Colloid and Interface Science, 2022, 605, 82-90.	9.4	39
6	Lignin-enzyme interaction: A roadblock for efficient enzymatic hydrolysis of lignocellulosics. Renewable and Sustainable Energy Reviews, 2022, 154, 111822.	16.4	211
7	Recycling of natural fiber composites: Challenges and opportunities. Resources, Conservation and Recycling, 2022, 177, 105962.	10.8	62
8	Cosolvent enhanced lignocellulosic fractionation tailoring lignin chemistry and enhancing lignin bioconversion. Bioresource Technology, 2022, 347, 126367.	9.6	14
9	Strikingly high amount of tricin-lignin observed from vanilla (<i>Vanilla planifolia</i>) aerial roots. Green Chemistry, 2022, 24, 259-270.	9.0	8
10	A Unique Bacterial Pelletized Cultivation Platform in <i>Rhodococcus opacus</i> PD630 Enhanced Lipid Productivity and Simplified Harvest for Lignin Bioconversion. ACS Sustainable Chemistry and Engineering, 2022, 10, 1083-1092.	6.7	4
11	Toward a Fundamental Understanding of the Role of Lignin in the Biorefinery Process. Frontiers in Energy Research, 2022, 9, .	2.3	13
12	Preparation and characterization of aminated co-solvent enhanced lignocellulosic fractionation lignin as a renewable building block for the synthesis of non-isocyanate polyurethanes. Industrial Crops and Products, 2022, 178, 114579.	5.2	15
13	Bioenergy Underground: Challenges and opportunities for phenotyping roots and the microbiome for sustainable bioenergy crop production. The Plant Phenome Journal, 2022, 5, .	2.0	9
14	Nanoscale FTIR and Mechanical Mapping of Plant Cell Walls for Understanding Biomass Deconstruction. ACS Sustainable Chemistry and Engineering, 2022, 10, 3016-3026.	6.7	29
15	Preparation, Properties, and Application of Lignocellulosicâ€Based Fluorescent Carbon Dots. ChemSusChem, 2022, 15, e202102486.	6.8	20
16	Enhancing Lignin Dispersion and Bioconversion by Eliminating Thermal Sterilization. ACS Sustainable Chemistry and Engineering, 2022, 10, 3245-3254.	6.7	4
17	Cover Feature: Preparation, Properties, and Application of Lignocellulosicâ€Based Fluorescent Carbon Dots (ChemSusChem 8/2022). ChemSusChem, 2022, 15, .	6.8	0
18	A combination of deep eutectic solvent and ethanol pretreatment for synergistic delignification and enhanced enzymatic hydrolysis for biorefinary process. Bioresource Technology, 2022, 350, 126885.	9.6	32

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19	Assessing the availability of two bamboo species for fermentable sugars by alkaline hydrogen peroxide pretreatment. Bioresource Technology, 2022, 349, 126854.	9.6	15
20	Revealing the mechanism of lignin re-polymerization inhibitor in acidic pretreatment and its impact on enzymatic hydrolysis. Industrial Crops and Products, 2022, 179, 114631.	5.2	20
21	Ferric chloride aided peracetic acid pretreatment for effective utilization of sugarcane bagasse. Fuel, 2022, 319, 123739.	6.4	10
22	Structural Reorganization of Noncellulosic Polymers Observed In Situ during Dilute Acid Pretreatment by Small-Angle Neutron Scattering. ACS Sustainable Chemistry and Engineering, 2022, 10, 314-322.	6.7	7
23	Valorization of bamboo biomass using combinatorial pretreatments. Green Chemistry, 2022, 24, 3736-3749.	9.0	46
24	Effective biomass fractionation and lignin stabilization using a diol DES system. Chemical Engineering Journal, 2022, 443, 136395.	12.7	60
25	Polyethylene upcycling to fuels: Narrowing the carbon number distribution in n-alkanes by tandem hydropyrolysis/hydrocracking. Chemical Engineering Journal, 2022, 444, 136360.	12.7	19
26	Deuterium incorporation into cellulose: a mini-review of biological and chemical methods. Cellulose, 2022, 29, 4269.	4.9	0
27	Hydrogen bondâ€“induced aqueous-phase surface modification of nanocellulose and its mechanically strong composites. Journal of Materials Science, 2022, 57, 8127-8138.	3.7	4
28	Coal polymer composites prepared by fused deposition modeling (FDM) 3D printing. Journal of Materials Science, 2022, 57, 10141-10152.	3.7	6
29	Competitive effects of glucanâ€™s main hydrolysates on biochar formation: A combined experiment and density functional theory analysis. Bioresource Technology, 2022, 359, 127427.	9.6	5
30	Evaluating the mechanism of milk protein as an efficient lignin blocker for boosting the enzymatic hydrolysis of lignocellulosic substrates. Green Chemistry, 2022, 24, 5263-5279.	9.0	57
31	Revealing the mechanism of surfactant-promoted enzymatic hydrolysis of dilute acid pretreated bamboo. Bioresource Technology, 2022, 360, 127524.	9.6	46
32	The bamboo delignification saturation point in alkaline hydrogen peroxide pretreatment and its association with enzymatic hydrolysis. Bioresource Technology, 2022, 359, 127462.	9.6	20
33	Molecular Engineering of Biorefining Lignin Waste for Solid-State Electrolyte. ACS Sustainable Chemistry and Engineering, 2022, 10, 8704-8714.	6.7	7
34	Chemical and Morphological Structure of Transgenic Switchgrass Organosolv Lignin Extracted by Ethanol, Tetrahydrofuran, and Î³-Valerolactone Pretreatments. ACS Sustainable Chemistry and Engineering, 2022, 10, 9041-9052.	6.7	10
35	Creating values from wastes: Producing biofuels from waste cooking oil via a tandem vapor-phase hydrotreating process. Applied Energy, 2022, 323, 119629.	10.1	14
36	Synergistic Improvement of Carbohydrate and Lignin Processability by Biomimicking Biomass Processing. Frontiers in Energy Research, 2021, 8, .	2.3	3

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37	Influence of chain length in protic ionic liquids on physicochemical and structural features of lignins from sugarcane bagasse. Industrial Crops and Products, 2021, 159, 113080.	5.2	7
38	The physiochemical alteration of flax fibers structuring components after different scouring and bleaching treatments. Industrial Crops and Products, 2021, 160, 113112.	5.2	8
39	Synthesis and Characterization of Lignin-grafted-poly(Îµ-caprolactone) from Different Biomass Sources. New Biotechnology, 2021, 60, 189-199.	4.4	18
40	Deep Eutectic Solvents: A Review of Fundamentals and Applications. Chemical Reviews, 2021, 121, 1232-1285.	47.7	1,334
41	A mechanistic study of cellulase adsorption onto lignin. Green Chemistry, 2021, 23, 333-339.	9.0	58
42	Effect of endoglucanase and high-pressure homogenization post-treatments on mechanically grinded cellulose nanofibrils and their film performance. Carbohydrate Polymers, 2021, 253, 117253.	10.2	30
43	Influence of plasticizers on thermal and mechanical properties of biocomposite filaments made from lignin and polylactic acid for 3D printing. Composites Part B: Engineering, 2021, 205, 108483.	12.0	71
44	Enhancement of polyhydroxyalkanoate production by co-feeding lignin derivatives with glycerol in Pseudomonas putida KT2440. Biotechnology for Biofuels, 2021, 14, 11.	6.2	28
45	Recent Advances in Synthesis and Application of Lignin Nanoparticles. ACS Symposium Series, 2021, , 273-293.	0.5	4
46	Double bonus: surfactant-assisted biomass pelleting benefits both the pelleting process and subsequent enzymatic saccharification of the pretreated pellets. Green Chemistry, 2021, 23, 1050-1061.	9.0	18
47	Enhancing the multi-functional properties of renewable lignin carbon fibers <i>via</i> defining the structureâ€“property relationship using different biomass feedstocks. Green Chemistry, 2021, 23, 3725-3739.	9.0	33
48	Lignin Valorization in Biorefineries Through Integrated Fractionation, Advanced Characterization, and Fermentation Intensification Strategies. , 2021, , 337-362.		0
49	Elucidating the mechanisms of enhanced lignin bioconversion by an alkali sterilization strategy. Green Chemistry, 2021, 23, 4697-4709.	9.0	20
50	Supercritical water co-liquefaction of LLDPE and PP into oil: properties and synergy. Sustainable Energy and Fuels, 2021, 5, 575-583.	4.9	23
51	Recent Advances in Functional Materials through Cellulose Nanofiber Templating. Advanced Materials, 2021, 33, e2005538.	21.0	77
52	Targeting hydroxycinnamoyl CoA: shikimate hydroxycinnamoyl transferase for lignin modification in Brachypodium distachyon. Biotechnology for Biofuels, 2021, 14, 50.	6.2	17
53	Cellulose Nanofiber Templating: Recent Advances in Functional Materials through Cellulose Nanofiber Templating (Adv. Mater. 12/2021). Advanced Materials, 2021, 33, 2170094.	21.0	1
54	THF co-solvent pretreatment prevents lignin redeposition from interfering with enzymes yielding prolonged cellulase activity. Biotechnology for Biofuels, 2021, 14, 63.	6.2	21

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55	Production of xylo-oligosaccharides from poplar by acetic acid pretreatment and its impact on inhibitory effect of poplar lignin. Bioresource Technology, 2021, 323, 124593.	9.6	27
56	The preparation and characterization of chemically deuterium incorporated cotton fibers. Cellulose, 2021, 28, 5351.	4.9	3
57	Fine grinding of thermoplastics by high speed friction grinding assisted by guar gum. Journal of Applied Polymer Science, 2021, 138, 50797.	2.6	2
58	Facilitating enzymatic hydrolysis with a novel guaiacol-based deep eutectic solvent pretreatment. Bioresource Technology, 2021, 326, 124696.	9.6	57
59	Polyurethanes Based on Unmodified and Refined Technical Lignins: Correlation between Molecular Structure and Material Properties. Biomacromolecules, 2021, 22, 2129-2136.	5.4	11
60	Transforming biorefinery designs with â€˜Plug-In Processes of Ligninâ€™ to enable economic waste valorization. Nature Communications, 2021, 12, 3912.	12.8	71
61	Heterogeneous Dielsâ€“Alder tandem catalysis for converting cellulose and polyethylene into BTX. Journal of Hazardous Materials, 2021, 414, 125418.	12.4	30
62	Catalytic degradation of waste rubbers and plastics over zeolites to produce aromatic hydrocarbons. Journal of Cleaner Production, 2021, 309, 127469.	9.3	35
63	Phototunable Lignin Plastics to Enable Recyclability. ChemSusChem, 2021, 14, 4260-4269.	6.8	13
64	Effect of Dilute Acetic Acid Hydrolysis on Xylooligosaccharide Production and the Inhibitory Effect of Cellulolytic Enzyme Lignin from Poplar. ACS Sustainable Chemistry and Engineering, 2021, 9, 11361-11371.	6.7	7
65	Degradation of aromatic compounds and lignin by marine protist Thraustochytrium striatum. Process Biochemistry, 2021, 107, 13-17.	3.7	8
66	Wood-reinforced composites by stereolithography with the stress whitening behavior. Materials and Design, 2021, 206, 109773.	7.0	18
67	Terephthalic Acid Copolyesters Containing Tetramethylcyclobutanediol for Highâ€Performance Plastics. ChemistryOpen, 2021, 10, 830-841.	1.9	7
68	Recent Advances in the Synthesis of Deuteriumâ€Labeled Compounds. Asian Journal of Organic Chemistry, 2021, 10, 2473-2485.	2.7	40
69	In Situ Wood Delignification toward Sustainable Applications. Accounts of Materials Research, 2021, 2, 606-620.	11.7	71
70	Promoting Diels-Alder reactions to produce bio-BTX: Co-aromatization of textile waste and plastic waste over USY zeolite. Journal of Cleaner Production, 2021, 314, 127966.	9.3	21
71	Engineered Sorghum Bagasse Enables a Sustainable Biorefinery with <i>p</i>â€Hydroxybenzoic Acidâ€Based Deep Eutectic Solvent. ChemSusChem, 2021, 14, 5235-5244.	6.8	9
72	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

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73	Recycled Cardboard Containers as a Low Energy Source for Cellulose Nanofibrils and Their Use in Poly(<scp>l</scp>-lactide) Nanocomposites. ACS Sustainable Chemistry and Engineering, 2021, 9, 13460-13470.	6.7	14
74	Use of a Lewis acid, a BrÃ¸nsted acid, and their binary mixtures for the hydrothermal liquefaction of lignocellulose. Fuel, 2021, 304, 121398.	6.4	14
75	Effects of different pelleting technologies and parameters on pretreatment and enzymatic saccharification of lignocellulosic biomass. Renewable Energy, 2021, 179, 2147-2157.	8.9	15
76	Opportunities and Challenges of Lignin Utilization. ACS Symposium Series, 2021, , 1-12.	0.5	4
77	Enhanced medium chain length-polyhydroxyalkanoate production by co-fermentation of lignin and holocellulose hydrolysates. Green Chemistry, 2021, 23, 8226-8237.	9.0	17
78	Alignment of Cellulose Nanofibers: Harnessing Nanoscale Properties to Macroscale Benefits. ACS Nano, 2021, 15, 3646-3673.	14.6	108
79	Use of a Lewis acid, a BrÃ¸nsted acid, and their binary mixtures for the liquefaction of lignocellulose by supercritical ethanol processing. Sustainable Energy and Fuels, 2021, 5, 5445-5453.	4.9	3
80	Valorisation of technical lignin in rigid polyurethane foam: a critical evaluation on trends, guidelines and future perspectives. Green Chemistry, 2021, 23, 8725-8753.	9.0	36
81	New Technologies are Needed to Improve the Recycling and Upcycling of Waste Plastics. ChemSusChem, 2021, 14, 3982-3984.	6.8	12
82	Research on Chemically Deuterated Cellulose Macroperformance and Fast Identification. Frontiers in Plant Science, 2021, 12, 709692.	3.6	0
83	Effect of Protic Ionic Liquids in Sugar Cane Bagasse Pretreatment for Lignin Valorization and Ethanol Production. ACS Sustainable Chemistry and Engineering, 2021, 9, 16965-16976.	6.7	7
84	Product Characteristics and Synergy Study on Supercritical Methanol Liquefaction of Lignocellulosic Biomass and Plastic. ACS Sustainable Chemistry and Engineering, 2021, 9, 17103-17111.	6.7	8
85	Fluorescence Enhancement of Lignin-Based Carbon Quantum Dots by Concentration-Dependent and Electron-Donating Substituent Synergy and Their Cell Imaging Applications. ACS Applied Materials & Interfaces, 2021, 13, 61565-61577.	8.0	37
86	Structural changes of lignins in natural Populus variants during different pretreatments. Bioresource Technology, 2020, 295, 122240.	9.6	61
87	Crossâ€Linked Nanocellulosic Materials and Their Applications. ChemSusChem, 2020, 13, 78-87.	6.8	51
88	The critical role of lignin in lignocellulosic biomass conversion and recent pretreatment strategies: A comprehensive review. Bioresource Technology, 2020, 301, 122784.	9.6	396
89	Converting polycarbonate and polystyrene plastic wastes intoaromatic hydrocarbons via catalytic fast co-pyrolysis. Journal of Hazardous Materials, 2020, 386, 121970.	12.4	45
90	Simultaneous depolymerization and fermentation of lignin into value-added products by the marine protist, Thraustochytrium striatum. Algal Research, 2020, 46, 101773.	4.6	6

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91	Detailed Oil Compositional Analysis Enables Evaluation of Impact of Temperature and Biomass-to-Catalyst Ratio on ex Situ Catalytic Fast Pyrolysis of Pine Vapors over ZSM-5. ACS Sustainable Chemistry and Engineering, 2020, 8, 1762-1773.	6.7	17
92	Preparation of Highly Reactive Lignin by Ozone Oxidation: Application as Surfactants with Antioxidant and Anti-UV Properties. ACS Sustainable Chemistry and Engineering, 2020, 8, 22-28.	6.7	39
93	Preserving Aryl Ether Linkages and Higher Yields of Isolated Lignin through Biomass Fibrillation. ACS Sustainable Chemistry and Engineering, 2020, 8, 34-37.	6.7	16
94	Maximizing enzymatic hydrolysis efficiency of bamboo with a mild ethanol-assistant alkaline peroxide pretreatment. Bioresource Technology, 2020, 299, 122568.	9.6	28
95	Recent Advances in the Application of Functionalized Lignin in Value-Added Polymeric Materials. Polymers, 2020, 12, 2277.	4.5	65
96	Modified alkaline peroxide pretreatment: An efficient path forward for bioethanol production from bamboo. Energy Conversion and Management, 2020, 224, 113365.	9.2	38
97	Tensile properties of 3D-printed wood-filled PLA materials using poplar trees. Applied Materials Today, 2020, 21, 100832.	4.3	43
98	<i>ACS Sustainable Chemistry & Engineering</i> Virtual Special Issue on Recent Advances in Biomass Characterization and Modeling. ACS Sustainable Chemistry and Engineering, 2020, 8, 10321-10322.	6.7	1
99	Effects of CELF Pretreatment Severity on Lignin Structure and the Lignin-Based Polyurethane Properties. Frontiers in Energy Research, 2020, 8, .	2.3	16
100	Deconstruction of biomass enabled by local demixing of cosolvents at cellulose and lignin surfaces. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 16776-16781.	7.1	29
101	Cover Image, Volume 14, Issue 3. Biofuels, Bioproducts and Biorefining, 2020, 14, i.	3.7	0
102	Emerging Strategies for Modifying Lignin Chemistry to Enhance Biological Lignin Valorization. ChemSusChem, 2020, 13, 5423-5432.	6.8	28
103	Recent advancements of plant-based natural fiberâ€“reinforced composites and their applications. Composites Part B: Engineering, 2020, 200, 108254.	12.0	323
104	Investigation of a Lignin-Based Deep Eutectic Solvent Using <i>p</i>-Hydroxybenzoic Acid for Efficient Woody Biomass Conversion. ACS Sustainable Chemistry and Engineering, 2020, 8, 12542-12553.	6.7	83
105	Arabidopsis Câ€terminal binding protein ANGUSTIFOLIA modulates transcriptional coâ€regulation of <i>MYB46</i> and <i>WRKY33</i>. New Phytologist, 2020, 228, 1627-1639.	7.3	17
106	Structural characterization of sugarcane lignins extracted from different protic ionic liquid pretreatments. Renewable Energy, 2020, 161, 579-592.	8.9	42
107	Sustainable energy and fuels from biomass: a review focusing on hydrothermal biomass processing. Sustainable Energy and Fuels, 2020, 4, 4390-4414.	4.9	140
108	Preface to Special Issue ofChemSusChemon Lignin Valorization: From Theory to Practice. ChemSusChem, 2020, 13, 4175-4180.	6.8	10

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109	Structural Insights into Low and High Recalcitrance Natural Poplar Variants Using Neutron and X-ray Scattering. ACS Sustainable Chemistry and Engineering, 2020, 8, 13838-13849.	6.7	7
110	Synergistic enhancement of nanocellulose foam with dual in situ mineralization and crosslinking reaction. International Journal of Biological Macromolecules, 2020, 165, 3198-3205.	7.5	2
111	Correlations of the physicochemical properties of organosolv lignins from <i>Broussonetia papyrifera</i> with their antioxidant activities. Sustainable Energy and Fuels, 2020, 4, 5114-5119.	4.9	19
112	The effect of switchgrass plant cell wall properties on its deconstruction by thermochemical pretreatments coupled with fungal enzymatic hydrolysis or<i>Clostridium thermocellum</i>consolidated bioprocessing. Green Chemistry, 2020, 22, 7924-7945.	9.0	25
113	Lignin as a UV Light Blockerâ€"A Review. Polymers, 2020, 12, 1134.	4.5	190
114	Increasing the Carbohydrate Output of Bamboo Using a Combinatorial Pretreatment. ACS Sustainable Chemistry and Engineering, 2020, 8, 7380-7393.	6.7	41
115	The production of hydrogenâ€"deuterium exchanged cellulose fibers with exchange-resistant deuterium incorporation. Cellulose, 2020, 27, 6163-6174.	4.9	4
116	Transgenic Poplar Designed for Biofuels. Trends in Plant Science, 2020, 25, 881-896.	8.8	45
117	3D printing of biomass-derived composites: application and characterization approaches. RSC Advances, 2020, 10, 21698-21723.	3.6	67
118	One-step transformation of biomass to fuel precursors using a bi-functional combination of Pd/C and water tolerant Lewis acid. Fuel, 2020, 277, 118200.	6.4	15
119	Promoting Aromatic Hydrocarbon Formation via Catalytic Pyrolysis of Polycarbonate Wastes over Fe- and Ce-Loaded Aluminum Oxide Catalysts. Environmental Science & Technology, 2020, 54, 8390-8400.	10.0	39
120	From cellulose to 1,2,4-benzenetriol <i>via</i> catalytic degradation over a wood-based activated carbon catalyst. Catalysis Science and Technology, 2020, 10, 3423-3432.	4.1	10
121	2D HSQC Chemical Shifts of Impurities from Biomass Pretreatment. ChemistrySelect, 2020, 5, 3359-3364.	1.5	1
122	Enhancing Enzyme-Mediated Hydrolysis of Mechanical Pulps by Deacetylation and Delignification. ACS Sustainable Chemistry and Engineering, 2020, 8, 5847-5855.	6.7	13
123	A biomass pretreatment using cellulose-derived solvent Cyrene. Green Chemistry, 2020, 22, 2862-2872.	9.0	77
124	Conversion of Loblolly pine biomass residues to bio-oil in a two-step process: Fast pyrolysis in the presence of zeolite and catalytic hydrogenation. Industrial Crops and Products, 2020, 148, 112318.	5.2	21
125	Natural deep eutectic solvent mediated extrusion for continuous high-solid pretreatment of lignocellulosic biomass. Green Chemistry, 2020, 22, 6372-6383.	9.0	58
126	Chemically Cross-Linked Cellulose Nanocrystal Aerogels for Effective Removal of Cation Dye. Frontiers in Chemistry, 2020, 8, 570.	3.6	46

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127	Enhanced BTEX formation via catalytic fast pyrolysis of styrene-butadiene rubber: Comparison of different catalysts. Fuel, 2020, 278, 118322.	6.4	21
128	Observation of Potential Contaminants in Processed Biomass Using Fourier Transform Infrared Spectroscopy. Applied Sciences (Switzerland), 2020, 10, 4345.	2.5	249
129	Preparation and Characterization of Various Kraft Lignins and Impact on Their Pyrolysis Behaviors. Industrial & Engineering Chemistry Research, 2020, 59, 3310-3320.	3.7	20
130	Synthesis, Characterization, and Utilization of a Lignin-Based Adsorbent for Effective Removal of Azo Dye from Aqueous Solution. ACS Omega, 2020, 5, 2865-2877.	3.5	91
131	The effect of lignin degradation products on the generation of pseudo-lignin during dilute acid pretreatment. Industrial Crops and Products, 2020, 146, 112205.	5.2	49
132	Lignin extraction and upgrading using deep eutectic solvents. Industrial Crops and Products, 2020, 147, 112241.	5.2	159
133	Isolation and characterization of lignocellulosic nanofibers from four kinds of organosolv-fractionated lignocellulosic materials. Wood Science and Technology, 2020, 54, 503-517.	3.2	19
134	Ligninâ€derived electrochemical energy materials and systems. Biofuels, Bioproducts and Biorefining, 2020, 14, 650-672.	3.7	73
135	Effects of the advanced organosolv pretreatment strategies on structural properties of woody biomass. Industrial Crops and Products, 2020, 146, 112144.	5.2	103
136	Robust galactomannan/graphene oxide film with ultra-flexible, gas barrier and self-clean properties. Composites Part A: Applied Science and Manufacturing, 2020, 131, 105780.	7.6	14
137	Black Liquor Valorization by Using Marine Protist Thraustochytrium striatum and the Preliminary Metabolic Mechanism Study. ACS Sustainable Chemistry and Engineering, 2020, 8, 1786-1796.	6.7	5
138	Solvent-free production of carbon materials with developed pore structure from biomass for high-performance supercapacitors. Industrial Crops and Products, 2020, 150, 112384.	5.2	18
139	Investigation of the effect of lignin/pseudo-lignin on enzymatic hydrolysis by Quartz Crystal Microbalance. Industrial Crops and Products, 2020, 157, 112927.	5.2	28
140	Perspective on Technical Lignin Fractionation. ACS Sustainable Chemistry and Engineering, 2020, 8, 8086-8101.	6.7	126
141	Mechanistic Insight into Lignin Slow Pyrolysis by Linking Pyrolysis Chemistry and Carbon Material Properties. ACS Sustainable Chemistry and Engineering, 2020, 8, 15843-15854.	6.7	22
142	Fabrication of lignocellulosic biomass paper containing nanofibrillated biomass. BioResources, 2020, 16, 209-222.	1.0	4
143	Measuring Biomass-Derived Products in Biological Conversion and Metabolic Process. Methods in Molecular Biology, 2020, 2096, 113-124.	0.9	0
144	Effect of using regenerated combined FAU and MOR zeolites as catalysts during the pyrolysis of kraft lignin. BioResources, 2020, 16, 417-440.	1.0	6

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145	Determination of hydroxyl groups in biorefinery resources via quantitative 31P NMR spectroscopy. Nature Protocols, 2019, 14, 2627-2647.	12.0	272
146	Catalytic conversion of rubber wastes to produce aromatic hydrocarbons over USY zeolites: Effect of SiO2/Al2O3 mole ratio. Energy Conversion and Management, 2019, 197, 111857.	9.2	31
147	Dynamic Self-Assembly of Polyelectrolyte Composite Nanomaterial Film. Polymers, 2019, 11, 1258.	4.5	7
148	A Multifunctional Cosolvent Pair Reveals Molecular Principles of Biomass Deconstruction. Journal of the American Chemical Society, 2019, 141, 12545-12557.	13.7	73
149	Utilization of deep eutectic solvent as a degumming protocol for Apocynum venetum bast. Cellulose, 2019, 26, 8047-8057.	4.9	30
150	Integration of renewable deep eutectic solvents with engineered biomass to achieve a closed-loop biorefinery. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 13816-13824.	7.1	68
151	Bio-inspired nanocomposite by layer-by-layer coating of chitosan/hyaluronic acid multilayers on a hard nanocellulose-hydroxyapatite matrix. Carbohydrate Polymers, 2019, 222, 115036.	10.2	32
152	Catalytic fast co-pyrolysis of bamboo sawdust and waste plastics for enhanced aromatic hydrocarbons production using synthesized CeO2/Î3-Al2O3 and HZSM-5. Energy Conversion and Management, 2019, 196, 759-767.	9.2	56
153	Recycling benzene and ethylbenzene from in-situ catalytic fast pyrolysis of plastic wastes. Energy Conversion and Management, 2019, 200, 112088.	9.2	46
154	Catalytic conversion of waste cooking oils for the production of liquid hydrocarbon biofuels using in-situ coating metal oxide on SBA-15 as heterogeneous catalyst. Journal of Analytical and Applied Pyrolysis, 2019, 138, 137-144.	5.5	49
155	A Comprehensive Characterization of Pyrolysis Oil from Softwood Barks. Polymers, 2019, 11, 1387.	4.5	43
156	Nacre-inspired hemicelluloses paper with fire retardant and gas barrier properties by self-assembly with bentonite nanosheets. Carbohydrate Polymers, 2019, 225, 115219.	10.2	33
157	Poplar as Biofiber Reinforcement in Composites for Large-Scale 3D Printing. ACS Applied Bio Materials, 2019, 2, 4557-4570.	4.6	52
158	Measurement of Physicochemical Properties of Lignin. ACS Symposium Series, 2019, , 33-47.	0.5	3
159	Overexpression of a serine hydroxymethyltransferase increases biomass production and reduces recalcitrance in the bioenergy crop <i>Populus</i>. Sustainable Energy and Fuels, 2019, 3, 195-207.	4.9	27
160	Production of deuterated biomass by cultivation of Lemna minor (duckweed) in D2O. Planta, 2019, 249, 1465-1475.	3.2	3
161	Downregulation of pectin biosynthesis gene GAUT4 leads to reduced ferulate and lignin-carbohydrate cross-linking in switchgrass. Communications Biology, 2019, 2, 22.	4.4	35
162	Defining lignin nanoparticle properties through tailored lignin reactivity by sequential organosolv fragmentation approach (SOFA). Green Chemistry, 2019, 21, 245-260.	9.0	97

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163	Preparation and Characterization of Microcellulose and Nanocellulose Fibers from Artemisia Vulgaris Bast. Polymers, 2019, 11, 907.	4.5	10
164	Lignin-Based Polyurethanes from Unmodified Kraft Lignin Fractionated by Sequential Precipitation. ACS Applied Polymer Materials, 2019, 1, 1672-1679.	4.4	69
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