

Methods for Pretreatment of Lignocellulosic Biomass for Production

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Acid Hydrolysis of Cellulose as the Entry Point into Biorefinery Schemes. <i>ChemSusChem</i> , 2009, 2, 1096-1107.	3.6	604
2	Production of biohydrogen from hydrolyzed bagasse with thermally preheated sludge. <i>International Journal of Hydrogen Energy</i> , 2009, 34, 7612-7617.	3.8	52
3	Treatment of Micropollutants in Water and Wastewater. <i>Water Intelligence Online</i> , 0, 9, .	0.3	27
4	Cellulolytic Systems in Insects. <i>Annual Review of Entomology</i> , 2010, 55, 609-632.	5.7	464
5	Pretreatment of woody biomass for biofuel production: energy efficiency, technologies, and recalcitrance. <i>Applied Microbiology and Biotechnology</i> , 2010, 87, 847-857.	1.7	279
6	Cellulose pretreatment with 1-n-butyl-3-methylimidazolium chloride for solid acid-catalyzed hydrolysis. <i>Bioresource Technology</i> , 2010, 101, 8273-8279.	4.8	89
7	Ball Milling Pretreatment of Corn Stover for Enhancing the Efficiency of Enzymatic Hydrolysis. <i>Applied Biochemistry and Biotechnology</i> , 2010, 162, 1872-1880.	1.4	129
8	A High-Throughput Platform for Screening Milligram Quantities of Plant Biomass for Lignocellulose Digestibility. <i>Bioenergy Research</i> , 2010, 3, 93-102.	2.2	103
9	Cold sodium hydroxide/urea based pretreatment of bamboo for bioethanol production: Characterization of the cellulose rich fraction. <i>Industrial Crops and Products</i> , 2010, 32, 551-559.	2.5	132
10	Which Controls the Depolymerization of Cellulose in Ionic Liquids: The Solid Acid Catalyst or Cellulose?. <i>ChemSusChem</i> , 2010, 3, 266-276.	3.6	190
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17	Periodic mesoporous organic-inorganic hybrid materials: Applications in membrane separations and adsorption. <i>Microporous and Mesoporous Materials</i> , 2010, 132, 1-14.	2.2	201
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19	Lignocellulose pretreatment severity – relating pH to biomatrix opening. <i>New Biotechnology</i> , 2010, 27, 739-750.	2.4	299

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21	Characterization of microcrystalline cellulose prepared from lignocellulosic materials. Part I. Acid catalyzed hydrolysis. <i>Bioresource Technology</i> , 2010, 101, 4446-4455.	4.8	187
22	Combination of biological pretreatment with mild acid pretreatment for enzymatic hydrolysis and ethanol production from water hyacinth. <i>Bioresource Technology</i> , 2010, 101, 9600-9604.	4.8	157
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1133	Bioreactor Engineering Research and Industrial Applications II. <i>Advances in Biochemical Engineering/Biotechnology</i> , 2016, , .	0.6	1
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1166	Expression of thermostable β -xylosidase in <i>Escherichia coli</i> for use in saccharification of plant biomass. <i>Bioengineered</i> , 2017, 8, 665-669.	1.4	9
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1459	Improved levulinic acid production from agri-residue biomass in biphasic solvent system through synergistic catalytic effect of acid and products. <i>Bioresource Technology</i> , 2018, 251, 143-150.	4.8	41
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1913	Recent advances in the pretreatment of microalgal and lignocellulosic biomass: A comprehensive review. <i>Bioresource Technology</i> , 2020, 298, 122476.	4.8	195
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1915	Pretreatment of lignocellulosic biomass for efficient enzymatic saccharification of cellulose. , 2020, , 17-65.		40
1916	The challenge of converting biomass polysaccharides into levulinic acid through heterogeneous catalytic processes. <i>Biofuels, Bioproducts and Biorefining</i> , 2020, 14, 417-445.	1.9	19
1917	Application of engineered yeast strain fermentation for oligogalacturonides production from pectin-rich waste biomass. <i>Bioresource Technology</i> , 2020, 300, 122645.	4.8	25
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1922	Iron based catalysts in biomass processing. Renewable and Sustainable Energy Reviews, 2020, 134, 110292.	8.2	24
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1924	Plasma-assisted pre-treatment of lignocellulosic biomass for anaerobic digestion. Food and Bioproducts Processing, 2020, 124, 287-295.	1.8	8
1925	The Role of Ionic Liquids in the Lignin Separation from Lignocellulosic Biomass. Energies, 2020, 13, 4864.	1.6	42
1926	Biofuels Production " Sustainability and Advances in Microbial Bioresources. Biofuel and Biorefinery Technologies, 2020, , .	0.1	14
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1928	Interaction of enzymes with lignocellulosic materials: causes, mechanism and influencing factors. Bioresources and Bioprocessing, 2020, 7, .	2.0	34
1929	Ethanol Production from Enzymatic Hydrolysates Optimized of Agave tequilana Weber var. azul and Agave karwinskii bagasses. Bioenergy Research, 2021, 14, 785-798.	2.2	6
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1931	The rational design of biomass-derived carbon materials towards next-generation energy storage: A review. Renewable and Sustainable Energy Reviews, 2020, 134, 110308.	8.2	141
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1933	Multifarious pretreatment strategies for the lignocellulosic substrates for the generation of renewable and sustainable biofuels: A review. Renewable Energy, 2020, 160, 1228-1252.	4.3	91
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1939	Acid-catalysed β -O-4 aryl-ether bond cleavage in methanol/(aqueous) ethanol: understanding depolymerisation of a lignin model compound during organosolv pretreatment. Scientific Reports, 2020, 10, 11037.	1.6	41
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1945	Efficiency of Catalytic Liquid Hot Water Pretreatment for Conversion of Corn Stover to Bioethanol. ACS Omega, 2020, 5, 29872-29881.	1.6	20
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1947	Evaluation of cellulolytic exogenous enzyme-containing microbial inoculants as feed additives for ruminant rations composed of low-quality roughage. Journal of Agricultural Science, 2020, 158, 326-338.	0.6	6
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1951	Production Nanocellulose from Raw Materials For Oil Palm Empty Bunches (TKKS) with Hydrolysis and Freeze Drying Methods. IOP Conference Series: Materials Science and Engineering, 2020, 742, 012033.	0.3	3
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1956	Production of Bioethanol from Napier grass: Comparison in Pre-treatment and Fermentation Methods. <i>IOP Conference Series: Earth and Environmental Science</i> , 2020, 520, 012005.	0.2	3
1957	Effect of Acid Production by <i>Penicillium oxalicum</i> on Physicochemical Properties of Bauxite Residue. <i>Geomicrobiology Journal</i> , 2020, 37, 929-936.	1.0	9
1958	Moderate pretreatment strategies for improvement of reducing sugar production from oil palm empty fruit bunches. <i>IOP Conference Series: Earth and Environmental Science</i> , 2020, 443, 012081.	0.2	2
1960	Fungi in Fuel Biotechnology. <i>Fungal Biology</i> , 2020, , .	0.3	4
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1962	Time domain NMR spectroscopy as a fast method for probing the efficiency of biomass pretreatments for second generation ethanol production. <i>Biomass and Bioenergy</i> , 2020, 142, 105734.	2.9	4
1963	Zmo0994, a novel LEA-like protein from <i>Zymomonas mobilis</i> , increases multi-abiotic stress tolerance in <i>Escherichia coli</i> . <i>Biotechnology for Biofuels</i> , 2020, 13, 151.	6.2	7
1965	Synergy of municipal solid waste co-processing with lignocellulosic waste for improved biobutanol production. <i>Waste Management</i> , 2020, 118, 45-54.	3.7	20
1966	Bioethanol production from cereal crops and lignocelluloses rich agro-residues: prospects and challenges. <i>SN Applied Sciences</i> , 2020, 2, 1.	1.5	22
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1968	Milling byproducts are an economically viable substrate for butanol production using clostridial ABE fermentation. <i>Applied Microbiology and Biotechnology</i> , 2020, 104, 8679-8689.	1.7	8
1969	Lignocellulolytic Enzymes in Biotechnological and Industrial Processes: A Review. <i>Sustainability</i> , 2020, 12, 7282.	1.6	83
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1971	Environmental management and valorization of cultivated tobacco stalks by combined pretreatment for potential bioethanol production. <i>Biomass Conversion and Biorefinery</i> , 2020, , 1.	2.9	27
1972	Use of Ionic Liquids and Deep Eutectic Solvents in Polysaccharides Dissolution and Extraction Processes towards Sustainable Biomass Valorization. <i>Molecules</i> , 2020, 25, 3652.	1.7	99
1973	Promotion of enzymatic hydrolysis of lignocellulosic biomass using natural additives for bioethanol production. <i>Environmental Quality Management</i> , 2020, , .	1.0	7
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1976	The Effects of Microwave-Assisted Pretreatment and Cofermentation on Bioethanol Production from Elephant Grass. <i>International Journal of Microbiology</i> , 2020, 2020, 1-11.	0.9	6
1977	Valorization of Wheat Straw for the Paper Industry: Pre-extraction of Reducing Sugars and Its Effect on Pulping and Papermaking Properties. <i>ACS Omega</i> , 2020, 5, 30704-30715.	1.6	16
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1979	Combination of Biological and Hydrothermal Pretreatment of Mixed Rice Biomass for Fermentable Sugars Production. <i>IOP Conference Series: Materials Science and Engineering</i> , 2020, 864, 012170.	0.3	1
1980	Insights into delignification behavior using aqueous p-toluenesulfonic acid treatment: comparison with different biomass species. <i>Cellulose</i> , 2020, 27, 10345-10358.	2.4	19
1981	Recent advances of greener pretreatment technologies of lignocellulose. <i>Current Research in Green and Sustainable Chemistry</i> , 2020, 3, 100035.	2.9	122
1982	Thermal Biomass Conversion: A Review. <i>Processes</i> , 2020, 8, 516.	1.3	70
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1985	Aqueous solutions of deep eutectic systems as reaction media for the saccharification and fermentation of hardwood xylan into xylitol. <i>Bioresource Technology</i> , 2020, 311, 123524.	4.8	32
1986	Novel two-pot approach ultrasonication and deep eutectic solvent pretreatments for watermelon rind delignification: Parametric screening and optimization via response surface methodology. <i>Energy</i> , 2020, 203, 117872.	4.5	44
1987	Biotechnology for Biofuels: A Sustainable Green Energy Solution. , 2020, , .		4
1988	Enhancement of bioenergy recovery from agricultural wastes through recycling of cellulosic alcoholic fermentation vinasse for anaerobic co-digestion. <i>Bioresource Technology</i> , 2020, 311, 123511.	4.8	29
1989	Acid soaking followed by steam flash-explosion pretreatment to enhance saccharification of rice husk for poly(3-hydroxybutyrate) production. <i>International Journal of Biological Macromolecules</i> , 2020, 160, 446-455.	3.6	10
1990	Facile Synthesis of SiO ₂ /CMC/Ag Hybrids Derived from Waste Biomass (Sugarcane Bagasse) Having Special Medical Application. <i>Journal of Nanoscience and Nanotechnology</i> , 2020, 20, 6413-6421.	0.9	13
1991	Multiproduct biorefinery optimal design: application to the acetone-butanol-ethanol system. <i>Oil and Gas Science and Technology</i> , 2020, 75, 9.	1.4	6
1993	Greener Routes to Biomass Waste Valorization: Lignin Transformation Through Electrocatalysis for Renewable Chemicals and Fuels Production. <i>ChemSusChem</i> , 2020, 13, 4214-4237.	3.6	123
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1996	Preparation of a sugarcane bagasse-based substrate for second-generation ethanol: Effect of pasteurisation conditions on dephenolisation. <i>Renewable Energy</i> , 2020, 157, 859-866.	4.3	5
1997	Recent advances in mechanochemical production of chemicals and carbon materials from sustainable biomass resources. <i>Renewable and Sustainable Energy Reviews</i> , 2020, 130, 109944.	8.2	128
1998	Novel strategies for glucose production from biomass using heteropoly acid catalyst. <i>Renewable Energy</i> , 2020, 159, 215-220.	4.3	23
1999	Enhancement of levoglucosan production via fast pyrolysis of sugarcane bagasse by pretreatment with Keggin heteropolyacids. <i>Industrial Crops and Products</i> , 2020, 154, 112680.	2.5	11
2000	Radiolysis as a Powerful Tool for Polymer Waste Recycling. <i>High Energy Chemistry</i> , 2020, 54, 194-204.	0.2	9
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2002	Insights into Structural Changes of Lignin toward Tailored Properties during Deep Eutectic Solvent Pretreatment. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 9783-9793.	3.2	72
2003	A Study on the Potential Biomass Available in Northeast India for Its Applicability in Certain Clean Energy Generation Purposes. <i>Journal of the Institution of Engineers (India): Series E</i> , 2020, 101, 133-140.	0.5	2
2004	Comprehensive assessment of 2G bioethanol production. <i>Bioresource Technology</i> , 2020, 313, 123630.	4.8	183
2005	Development of zinc-loaded nanoparticle hydrogel made from sugarcane bagasse for special medical application. <i>Journal of Material Cycles and Waste Management</i> , 2020, 22, 1723-1733.	1.6	15
2006	Delignification of oil palm empty fruit bunch via ultrasound-assisted deep eutectic solvent pretreatment. <i>IOP Conference Series: Earth and Environmental Science</i> , 2020, 463, 012007.	0.2	5
2007	In-situ lignin drives lytic polysaccharide monooxygenases to enhance enzymatic saccharification. <i>International Journal of Biological Macromolecules</i> , 2020, 161, 308-314.	3.6	11
2008	Biotransformation of lignocellulosic biomass into industrially relevant products with the aid of fungi-derived lignocellulolytic enzymes. <i>International Journal of Biological Macromolecules</i> , 2020, 161, 1099-1116.	3.6	91
2009	Production of Sorbitol via Catalytic Transfer Hydrogenation of Glucose. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 1843.	1.3	29
2010	Microwave-Assisted Modification of Corncob with Trimethylammonium Chloride for Efficient Removal of Cr(VI): Preparation, Characterization, and Mechanism. <i>Water, Air, and Soil Pollution</i> , 2020, 231, 1.	1.1	4
2011	Extrusion followed by ultrasound as a chemical-free pretreatment method to enhance enzymatic hydrolysis of rice hull for fermentable sugars production. <i>Industrial Crops and Products</i> , 2020, 149, 112356.	2.5	41
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2014	Chemical and non-chemical pre-treatment techniques for bio ethanol production from biomass. International Journal of Energy and Water Resources, 2020, 4, 199-204.	1.3	9
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2017	Levulinic Acid Production from Delignified Rice Husk Waste over Manganese Catalysts: Heterogeneous Versus Homogeneous. Catalysts, 2020, 10, 327.	1.6	15
2018	Present status and future prospect of genetic and metabolic engineering for biofuels from lignocellulosic biomass. , 2020, , 37-46.		1
2019	Downstream processing of biofuel. , 2020, , 47-62.		3
2020	Energy recovery from biomass using gasification. , 2020, , 363-382.		9
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2023	Kinetic Characterization of Enzymatic Hydrolysis of Apple Pomace as Feedstock for a Sugar-Based Biorefinery. Energies, 2020, 13, 1051.	1.6	9
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2025	Biohydrogen production from fruit waste by Clostridium strain BOH3. Renewable Energy, 2020, 153, 1368-1377.	4.3	57
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2028	Hyperthermophilic Treatment of Grass and Leaves to Produce Hydrogen, Methane and VFA-Rich Digestate: Preliminary Results. Energies, 2020, 13, 2814.	1.6	4
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2032	Novel Routes in Transformation of Lignocellulosic Biomass to Furan Platform Chemicals: From Pretreatment to Enzyme Catalysis. Catalysts, 2020, 10, 743.	1.6	31
2033	Subcritical CO ₂ shows no effect on liquid hot water pretreatment of poplar wood. Bioresource Technology Reports, 2020, 11, 100442.	1.5	2
2034	Screening of factors influencing dilute nitric acid pretreatment for xylan recovery from oil palm frond bagasse. IOP Conference Series: Materials Science and Engineering, 2020, 736, 032007.	0.3	0
2035	Variables Affecting Delignification of Corn Wastes Using Urea for Total Reducing Sugars Production. ACS Omega, 2020, 5, 12196-12201.	1.6	6
2036	Single-pot conversion of fruit peel waste to 5-hydroxymethylfurfural catalyzed by modified activated carbon in green solvent: kinetics and thermodynamic study. Biomass Conversion and Biorefinery, 2022, 12, 469-489.	2.9	5
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2038	Process parameter optimization of pretreated pineapple leaves fiber for enhancement of sugar recovery. Industrial Crops and Products, 2020, 152, 112514.	2.5	15
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2040	Enhance photocatalytic hydrogen evolution by using alkaline pretreated corn stover as a sacrificial agent. International Journal of Energy Research, 2020, 44, 4616-4628.	2.2	15
2041	Silica removal by alkaline hydrogen peroxide treatment to enhance the conversion of rice straw to sugars. Materials Today: Proceedings, 2020, 31, 145-149.	0.9	2
2042	Consolidated bio-saccharification: Leading lignocellulose bioconversion into the real world. Biotechnology Advances, 2020, 40, 107535.	6.0	102
2043	Chelator-mediated biomimetic degradation of cellulose and chitin. International Journal of Biological Macromolecules, 2020, 153, 433-440.	3.6	11
2045	Effect of Sugars on the Real-Time Adsorption of Expansin on Cellulose. Biomacromolecules, 2020, 21, 1776-1784.	2.6	8
2046	Application of enzyme cocktails from Indonesian isolates to corncob (Zea mays) waste saccharification. Biocatalysis and Agricultural Biotechnology, 2020, 24, 101537.	1.5	7
2047	Forestry biorefineries. Renewable Energy, 2020, 154, 461-475.	4.3	54
2048	Acid and Enzymatic Fractionation of Olive Stones for Ethanol Production Using Pachysolen tannophilus. Processes, 2020, 8, 195.	1.3	15
2049	Nanocellulose-Enabled Membranes for Water Purification: Perspectives. Advanced Sustainable Systems, 2020, 4, 1900114.	2.7	118

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2051	Biohydrogen production from fruit and vegetable waste, sugar beet pulp and corn silage via dark fermentation. <i>Renewable Energy</i> , 2020, 153, 1226-1237.	4.3	55
2052	Bio-based and agriculture resources for production of bioproducts. , 2020, , 263-282.		6
2053	Protein engineering approaches for lignocellulosic ethanol biorefinery. , 2020, , 243-260.		2
2054	Optimization of harvest and logistics for multiple lignocellulosic biomass feedstocks in the northeastern United States. <i>Energy</i> , 2020, 197, 117260.	4.5	32
2055	Engineered <i>Penicillium funiculosum</i> produces potent lignocellulolytic enzymes for saccharification of various pretreated biomasses. <i>Process Biochemistry</i> , 2020, 92, 49-60.	1.8	21
2056	The effect of using different acids to catalyze the prehydrolysis stage on the organosolv delignification of beech wood in two-stage process. <i>Renewable Energy</i> , 2020, 153, 1479-1487.	4.3	8
2057	Lignocellulose biomass pyrolysis for bio-oil production: A review of biomass pre-treatment methods for production of drop-in fuels. <i>Renewable and Sustainable Energy Reviews</i> , 2020, 123, 109763.	8.2	317
2058	Pressurised disc refining of wheat straw as a pre-treatment approach for agricultural residues: A preliminary assessment of energy consumption and fibre composition. <i>Bioresource Technology</i> , 2020, 304, 122976.	4.8	12
2059	Golden section algorithm to optimise the chemical pretreatment of agro-industrial waste for sugars extraction. <i>Fuel</i> , 2020, 266, 117028.	3.4	10
2060	Recent trends in applications of advanced oxidation processes (AOPs) in bioenergy production: Review. <i>Renewable and Sustainable Energy Reviews</i> , 2020, 121, 109669.	8.2	116
2061	Evaluation of pre-treatment methods for <i>Lantana camara</i> stem for enhanced enzymatic saccharification. <i>3 Biotech</i> , 2020, 10, 37.	1.1	6
2063	Nanostructure-modified in-situ synthesis of nitrogen-doped porous carbon microspheres (NPCM) loaded with FeTe ₂ nanocrystals and NPCM as superior anodes to construct high-performance lithium-ion capacitors. <i>Electrochimica Acta</i> , 2020, 337, 135749.	2.6	20
2064	In silico and in vitro comparison of nicotinamide adenine dinucleotide phosphate dependent xylose reductase from <i>Debaryomyces hansenii</i> yeast family. <i>Biocatalysis and Agricultural Biotechnology</i> , 2020, 24, 101508.	1.5	1
2065	Value-added chemicals and materials from lignocellulosic biomass. , 2020, , 367-436.		6
2066	Lignocellulosic bio-refinery approach for microbial 2,3-Butanediol production. <i>Bioresource Technology</i> , 2020, 302, 122873.	4.8	64
2067	Understanding the Impact of Lignocellulosic Biomass Variability on the Size Reduction Process: A Review. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 2327-2343.	3.2	60
2068	Strong acid- and solvent-resistant polyether ether ketone separation membranes with adjustable pores. <i>Chemical Engineering Journal</i> , 2020, 386, 124086.	6.6	32

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2071	Nanobiotechnological advancements in lignocellulosic biomass pretreatment. Materials Science for Energy Technologies, 2020, 3, 308-318.	1.0	51
2072	Current approaches and trends in the production of microbial cellulases using residual lignocellulosic biomass: a bibliometric analysis of the last 10 years. Archives of Microbiology, 2020, 202, 935-951.	1.0	22
2073	One-pot selective production of levulinic acid and formic acid from spent coffee grounds in a catalyst-free biphasic system. Bioresource Technology, 2020, 303, 122898.	4.8	18
2074	Effective delignification of lignocellulosic biomass by microwave assisted deep eutectic solvents. Bioresource Technology, 2020, 303, 122897.	4.8	98
2075	Insights from enzymatic degradation of cellulose and hemicellulose to fermentable sugars – a review. Biomass and Bioenergy, 2020, 134, 105481.	2.9	172
2076	Influence of Raw Material Drying Temperature on the Scots Pine (Pinus sylvestris L.) Biomass Agglomeration Process – A Preliminary Study. Energies, 2020, 13, 1809.	1.6	16
2077	Comparative evaluation of microwave-assisted acid, alkaline, and inorganic salt pretreatments of sugarcane bagasse for sugar recovery. Biomass Conversion and Biorefinery, 2020, , 1.	2.9	19
2078	Towards a more sustainable circular bioeconomy. Innovative approaches to rice residue valorization: The RiceRes case study. Bioresource Technology Reports, 2020, 11, 100427.	1.5	13
2079	Different pretreatment technologies of lignocellulosic biomass for bioethanol production: An overview. Energy, 2020, 199, 117457.	4.5	292
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