

Techno-economic evaluation of integrated first- and second-generation ethanol production from grain and straw

Biotechnology for Biofuels

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Emerging Technologies for the Production of Renewable Liquid Transport Fuels from Biomass Sources Enriched in Plant Cell Walls. <i>Frontiers in Plant Science</i> , 2016, 7, 1854.	1.7	55
2	Enhanced Product Recovery from Glycerol Fermentation into 3-Carbon Compounds in a Bioelectrochemical System Combined with In Situ Extraction. <i>Frontiers in Bioengineering and Biotechnology</i> , 2016, 4, 73.	2.0	19
3	Whole-Metagenome-Sequencing-Based Community Profiles of <i>Vitis vinifera</i> L. cv. Corvina Berries Withered in Two Post-harvest Conditions. <i>Frontiers in Microbiology</i> , 2016, 7, 937.	1.5	47
4	A Narrow pH Range Supports Butanol, Hexanol, and Octanol Production from Syngas in a Continuous Co-culture of <i>Clostridium ljungdahlii</i> and <i>Clostridium kluyveri</i> with In-Line Product Extraction. <i>Frontiers in Microbiology</i> , 2016, 7, 1773.	1.5	131
5	Production of Acetoin through Simultaneous Utilization of Glucose, Xylose, and Arabinose by Engineered <i>Bacillus subtilis</i> . <i>PLoS ONE</i> , 2016, 11, e0159298.	1.1	29
6	Roles of Aquaporins in <i>Setaria viridis</i> Stem Development and Sugar Storage. <i>Frontiers in Plant Science</i> , 2016, 7, 1815.	1.7	17
7	Enhanced malic acid production from glycerol with high-cell density <i>Ustilago trichophora</i> TZ1 cultivations. <i>Biotechnology for Biofuels</i> , 2016, 9, 135.	6.2	64
8	What could the entire cornstover contribute to the enhancement of waste activated sludge acidification? Performance assessment and microbial community analysis. <i>Biotechnology for Biofuels</i> , 2016, 9, 241.	6.2	30
9	Effect of hydrothermal pretreatment on the structural changes of alkaline ethanol lignin from wheat straw. <i>Scientific Reports</i> , 2016, 6, 39354.	1.6	86
10	Systematic engineering of pentose phosphate pathway improves <i>Escherichia coli</i> succinate production. <i>Biotechnology for Biofuels</i> , 2016, 9, 262.	6.2	35
11	Downstream integration of microalgae harvesting and cell disruption by means of cationic surfactant-decorated Fe ₃ O ₄ nanoparticles. <i>Green Chemistry</i> , 2016, 18, 3981-3989.	4.6	88
12	Fuel ethanol production from lignocellulosic biomass: An overview on feedstocks and technological approaches. <i>Renewable and Sustainable Energy Reviews</i> , 2016, 66, 751-774.	8.2	552
13	Evolution and Ecology of <i>Actinobacteria</i> and Their Bioenergy Applications. <i>Annual Review of Microbiology</i> , 2016, 70, 235-254.	2.9	249
14	Improvement of sugar yields from corn stover using sequential hot water pretreatment and disk milling. <i>Bioresource Technology</i> , 2016, 216, 706-713.	4.8	80
15	Pretreatment processes for lignocellulosic biomass conversion to biofuels and bioproducts. <i>Current Opinion in Green and Sustainable Chemistry</i> , 2016, 2, 48-53.	3.2	133
16	The biotechnological potential of whey. <i>Reviews in Environmental Science and Biotechnology</i> , 2016, 15, 479-498.	3.9	122
17	A new laboratory evolution approach to select for constitutive acetic acid tolerance in <i>Saccharomyces cerevisiae</i> and identification of causal mutations. <i>Biotechnology for Biofuels</i> , 2016, 9, 173.	6.2	109
18	Engineering levoglucosan metabolic pathway in <i>Rhodococcus jostii</i> RHA1 for lipid production. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2016, 43, 1551-1560.	1.4	32

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19	Disruption of the Reductive 1,3-Propanediol Pathway Triggers Production of 1,2-Propanediol for Sustained Glycerol Fermentation by <i>Clostridium pasteurianum</i> . <i>Applied and Environmental Microbiology</i> , 2016, 82, 5375-5388.	1.4	28
20	Biomimetic fabrication of biotinylated peptide nanostructures upon diatom scaffold; a plausible model for sustainable energy. <i>RSC Advances</i> , 2016, 6, 73692-73698.	1.7	23
21	Biosynthesis of polyesters and polyamide building blocks using microbial fermentation and biotransformation. <i>Reviews in Environmental Science and Biotechnology</i> , 2016, 15, 639-663.	3.9	65
22	Enhancement of biobutanol production by electromicrobial glucose conversion in a dual chamber fermentation cell using <i>C. pasteurianum</i> . <i>Energy Conversion and Management</i> , 2016, 130, 165-175.	4.4	31
23	Fatty alcohol production in <i>Lipomyces starkeyi</i> and <i>Yarrowia lipolytica</i> . <i>Biotechnology for Biofuels</i> , 2016, 9, 227.	6.2	52
24	Furfural tolerance and detoxification mechanism in <i>Candida tropicalis</i> . <i>Biotechnology for Biofuels</i> , 2016, 9, 250.	6.2	38
25	Bioreactors and in situ product recovery techniques for acetone-butanol-ethanol fermentation. <i>FEMS Microbiology Letters</i> , 2016, 363, fnw107.	0.7	24
26	EXPLoRA-web: linkage analysis of quantitative trait loci using bulk segregant analysis. <i>Nucleic Acids Research</i> , 2016, 44, W142-W146.	6.5	9
27	Total Chain Integration of sustainable biorefinery systems. <i>Applied Energy</i> , 2016, 184, 1432-1446.	5.1	86
28	A novel cell factory for efficient production of ethanol from dairy waste. <i>Biotechnology for Biofuels</i> , 2016, 9, 33.	6.2	59
29	Hardwiring microbes via direct interspecies electron transfer: mechanisms and applications. <i>Environmental Sciences: Processes and Impacts</i> , 2016, 18, 968-980.	1.7	143
30	Microbiosensor for the detection of acetate in electrode-respiring biofilms. <i>Biosensors and Bioelectronics</i> , 2016, 81, 517-523.	5.3	48
31	Microbial electrosynthesis of solvents and alcoholic biofuels from nutrient waste: A review. <i>Journal of Environmental Chemical Engineering</i> , 2017, 5, 940-954.	3.3	34
32	Bioorganopromoted green Friedländer synthesis: a versatile new malic acid promoted solvent free approach to multisubstituted quinolines. <i>New Journal of Chemistry</i> , 2017, 41, 1618-1624.	1.4	28
33	Converting Chemical Oxygen Demand (COD) of Cellulosic Ethanol Fermentation Wastewater into Microbial Lipid by Oleaginous Yeast <i>Trichosporon cutaneum</i> . <i>Applied Biochemistry and Biotechnology</i> , 2017, 182, 1121-1130.	1.4	19
34	Methane production enhancement from products of alkaline hydrogen peroxide pretreated sweet sorghum bagasse. <i>RSC Advances</i> , 2017, 7, 5701-5707.	1.7	22
35	Genome Editing in <i>Clostridium saccharoperbutylacetonicum</i> N1-4 with the CRISPR-Cas9 System. <i>Applied and Environmental Microbiology</i> , 2017, 83, .	1.4	72
36	Impact of disk milling on corn stover pretreated at commercial scale. <i>Bioresource Technology</i> , 2017, 232, 297-303.	4.8	7

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37	Functional overexpression of genes involved in erythritol synthesis in the yeast <i>Yarrowia lipolytica</i> . <i>Biotechnology for Biofuels</i> , 2017, 10, 77.	6.2	76
38	Lignocellulose fermentation and residual solids characterization for senescent switchgrass fermentation by <i>Clostridium thermocellum</i> in the presence and absence of continuous ball-milling. <i>Energy and Environmental Science</i> , 2017, 10, 1252-1261.	15.6	65
39	Inhibitory Effect of Coumarin on Syntrophic Fatty Acid-Oxidizing and Methanogenic Cultures and Biogas Reactor Microbiomes. <i>Applied and Environmental Microbiology</i> , 2017, 83, .	1.4	37
40	Oleaginous yeasts: Promising platforms for the production of oleochemicals and biofuels. <i>Biotechnology and Bioengineering</i> , 2017, 114, 1915-1920.	1.7	128
41	A novel AQDS-rGO composite to enhance the bioreduction of As(^v)/Fe(ⁱⁱⁱ) from the flooded arsenic-rich soil. <i>RSC Advances</i> , 2017, 7, 31075-31084.	1.7	12
42	Treatment of supermarket vegetable wastes to be used as alternative substrates in bioprocesses. <i>Waste Management</i> , 2017, 67, 59-66.	3.7	39
43	Sweet sorghum as biofuel feedstock: recent advances and available resources. <i>Biotechnology for Biofuels</i> , 2017, 10, 146.	6.2	150
44	Evaluation of optical properties and chemical structure changes in enzymatic hydrolysis lignin during heat treatment. <i>RSC Advances</i> , 2017, 7, 20760-20765.	1.7	16
45	Nitrogen removal and microbial community shift in an aerobic denitrification reactor bioaugmented with a <i>Pseudomonas</i> strain for coal-based ethylene glycol industry wastewater treatment. <i>Environmental Science and Pollution Research</i> , 2017, 24, 11435-11445.	2.7	32
46	Improved biomass and lipid production in <i>Synechocystis</i> sp. NN using industrial wastes and nano-catalyst coupled transesterification for biodiesel production. <i>Bioresource Technology</i> , 2017, 242, 128-132.	4.8	19
47	Effects of organosolv and ammonia pretreatments on lignin properties and its inhibition for enzymatic hydrolysis. <i>Green Chemistry</i> , 2017, 19, 2006-2016.	4.6	145
48	Review on the current status of polymer degradation: a microbial approach. <i>Bioresources and Bioprocessing</i> , 2017, 4, .	2.0	473
49	Effects of pH and ferrous iron on the coproduction of butanol and hydrogen by <i>Clostridium beijerinckii</i> IB4. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 6547-6555.	3.8	65
50	Engineered yeast with a CO ₂ -fixation pathway to improve the bio-ethanol production from xylose-mixed sugars. <i>Scientific Reports</i> , 2017, 7, 43875.	1.6	52
51	Integrating starchy substrate into cellulosic ethanol production to boost ethanol titers and yields. <i>Applied Energy</i> , 2017, 195, 196-203.	5.1	40
52	Transcriptional analysis of genes encoding β -glucosidase of <i>Schizophyllum commune</i> KUC9397 under optimal conditions. <i>Folia Microbiologica</i> , 2017, 62, 191-196.	1.1	1
53	Interaction between in vivo bioluminescence and extracellular electron transfer in <i>Shewanella woodyi</i> via charge and discharge. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 1746-1750.	1.3	19
54	Carbon dioxide conversion to synthetic fuels using biocatalytic electrodes. <i>Journal of Materials Chemistry A</i> , 2017, 5, 2429-2443.	5.2	44

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55	Beneficial effects of <i>Trametes versicolor</i> pretreatment on saccharification and lignin enrichment of organosolv-pretreated pinewood. <i>RSC Advances</i> , 2017, 7, 45652-45661.	1.7	10
56	A novel and efficient fungal delignification strategy based on versatile peroxidase for lignocellulose bioconversion. <i>Biotechnology for Biofuels</i> , 2017, 10, 218.	6.2	70
57	The Multi Domain Caldicellulosiruptor <i>bescii</i> CelA Cellulase Excels at the Hydrolysis of Crystalline Cellulose. <i>Scientific Reports</i> , 2017, 7, 9622.	1.6	43
58	Generation and Characterization of Acid Tolerant <i>Fibrobacter succinogenes</i> S85. <i>Scientific Reports</i> , 2017, 7, 2277.	1.6	14
59	A two-step optimization strategy for 2nd generation ethanol production using softwood hemicellulosic hydrolysate as fermentation substrate. <i>Bioresource Technology</i> , 2017, 244, 708-716.	4.8	9
60	Application of next-generation sequencing methods for microbial monitoring of anaerobic digestion of lignocellulosic biomass. <i>Applied Microbiology and Biotechnology</i> , 2017, 101, 6849-6864.	1.7	32
61	Excellent waste biomass-degrading performance of <i>Trichoderma asperellum</i> T-1 during submerged fermentation. <i>Science of the Total Environment</i> , 2017, 609, 1329-1339.	3.9	21
62	A comparative study of anaerobic fixed film baffled reactor and up-flow anaerobic fixed film fixed bed reactor for biological removal of diethyl phthalate from wastewater: a performance, kinetic, biogas, and metabolic pathway study. <i>Biotechnology for Biofuels</i> , 2017, 10, 139.	6.2	66
63	Enhanced production of 2,3-butanediol from xylose by combinatorial engineering of xylose metabolic pathway and cofactor regeneration in pyruvate decarboxylase-deficient <i>Saccharomyces cerevisiae</i> . <i>Bioresource Technology</i> , 2017, 245, 1551-1557.	4.8	46
64	Genetic complexity of miscanthus cell wall composition and biomass quality for biofuels. <i>BMC Genomics</i> , 2017, 18, 406.	1.2	22
65	Engineering redox homeostasis to develop efficient alcohol-producing microbial cell factories. <i>Microbial Cell Factories</i> , 2017, 16, 115.	1.9	26
66	The sole introduction of two single-point mutations establishes glycerol utilization in <i>Saccharomyces cerevisiae</i> CEN.PK derivatives. <i>Biotechnology for Biofuels</i> , 2017, 10, 10.	6.2	36
67	Feasibility of CO ₂ mitigation and carbohydrate production by microalga <i>Scenedesmus obliquus</i> CNW-N used for bioethanol fermentation under outdoor conditions: effects of seasonal changes. <i>Biotechnology for Biofuels</i> , 2017, 10, 27.	6.2	63
68	Techno-economic analysis and climate change impacts of sugarcane biorefineries considering different time horizons. <i>Biotechnology for Biofuels</i> , 2017, 10, 50.	6.2	113
69	A mild thermomechanical process for the enzymatic conversion of radiata pine into fermentable sugars and lignin. <i>Biotechnology for Biofuels</i> , 2017, 10, 61.	6.2	19
70	Genome-wide characterization of cellulases from the hemi-biotrophic plant pathogen, <i>Bipolaris sorokiniana</i> , reveals the presence of a highly stable GH7 endoglucanase. <i>Biotechnology for Biofuels</i> , 2017, 10, 135.	6.2	23
71	Management of enzyme diversity in high-performance cellulolytic cocktails. <i>Biotechnology for Biofuels</i> , 2017, 10, 156.	6.2	20
72	Microbial community shift in a suspended stuffing biological reactor with pre-attached aerobic denitrifier. <i>World Journal of Microbiology and Biotechnology</i> , 2017, 33, 148.	1.7	11

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73	Overexpression of smORF YNR034W-A/ <i>EGO4</i> in <i>Saccharomyces cerevisiae</i> increases the fermentative efficiency of <i>Agave tequilana</i> Weber must. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2017, 44, 63-74.	1.4	7
74	Enzyme recycling in lignocellulosic biorefineries. <i>Biofuels, Bioproducts and Biorefining</i> , 2017, 11, 150-167.	1.9	90
75	Quantitative Metaproteomics Highlight the Metabolic Contributions of Uncultured Phylotypes in a Thermophilic Anaerobic Digester. <i>Applied and Environmental Microbiology</i> , 2017, 83, .	1.4	67
76	Bioethanol and power from integrated second generation biomass: A Monte Carlo simulation. <i>Energy Conversion and Management</i> , 2017, 141, 274-284.	4.4	21
77	Optimization of biogas generation using anaerobic digestion models and computational intelligence approaches. <i>Reviews in Chemical Engineering</i> , 2017, 33, .	2.3	30
78	An In-Depth Understanding of Biomass Recalcitrance Using Natural Poplar Variants as the Feedstock. <i>ChemSusChem</i> , 2017, 10, 139-150.	3.6	106
79	Oxygen-radical pretreatment promotes cellulose degradation by cellulolytic enzymes. <i>Biotechnology for Biofuels</i> , 2017, 10, 290.	6.2	15
80	Stability of Cell Wall Composition and Saccharification Efficiency in <i>Miscanthus</i> across Diverse Environments. <i>Frontiers in Plant Science</i> , 2016, 7, 2004.	1.7	22
81	Saccharification of Agricultural Lignocellulose Feedstocks and Protein-Level Responses by a Termite Gut-Microbe Bioreactor. <i>Frontiers in Energy Research</i> , 2017, 5, .	1.2	10
82	Differential Proteomic Profiles of <i>Pleurotus ostreatus</i> in Response to Lignocellulosic Components Provide Insights into Divergent Adaptive Mechanisms. <i>Frontiers in Microbiology</i> , 2017, 8, 480.	1.5	23
83	EFFECT OF PRODUCTION PARAMETERS ON THE ECONOMIC FEASIBILITY OF A BIOFUEL ENTERPRISE. <i>Journal of Agricultural & Applied Economics</i> , 2017, 49, 347-362.	0.8	1
84	Bioproduction of Fuels: An Introduction. , 2017, , 3-25.		0
85	<i>Yarrowia lipolytica</i> as a Cell Factory for Oleochemical Biotechnology. , 2017, , 459-476.		1
86	Characterization of erythrose reductase from <i>Yarrowia lipolytica</i> and its influence on erythritol synthesis. <i>Microbial Cell Factories</i> , 2017, 16, 118.	1.9	64
87	Comparative assessment of fermentative capacity of different xylose-consuming yeasts. <i>Microbial Cell Factories</i> , 2017, 16, 153.	1.9	37
88	Engineering <i>Shewanella oneidensis</i> enables xylose-fed microbial fuel cell. <i>Biotechnology for Biofuels</i> , 2017, 10, 196.	6.2	59
89	Lipopeptide produced from <i>Bacillus</i> sp. W112 improves the hydrolysis of lignocellulose by specifically reducing non-productive binding of cellulases with and without CBMs. <i>Biotechnology for Biofuels</i> , 2017, 10, 301.	6.2	9
90	Transcript profiling of the immunological interactions between <i>Actinobacillus pleuropneumoniae</i> serotype 7 and the host by dual RNA-seq. <i>BMC Microbiology</i> , 2017, 17, 193.	1.3	11

#	ARTICLE	IF	CITATIONS
91	Neutron Scattering on Different States of Polymer-Clay Compounds: From Solution to Dry States. , 2017, , 327-361.		2
92	Growth Promotion Effect of Alginate Oligosaccharides on <i>Spirulina</i> Analyzed by Repeated Batch Culture. Nihon Enerugi Gakkaishi/Journal of the Japan Institute of Energy, 2017, 96, 352-356.	0.2	6
93	Pandoraea sp. B-6 assists the deep eutectic solvent pretreatment of rice straw via promoting lignin depolymerization. Bioresource Technology, 2018, 257, 62-68.	4.8	63
94	Ethanol production from mixtures of sugarcane bagasse and <i>Dioscorea composita</i> extracted residue with high solid loading. Bioresource Technology, 2018, 257, 23-29.	4.8	42
95	Medium-Chain Fatty Acids (MCFA) Production Through Anaerobic Fermentation Using <i>Clostridium kluyveri</i> : Effect of Ethanol and Acetate. Applied Biochemistry and Biotechnology, 2018, 185, 594-605.	1.4	52
96	Comparative environmental Life Cycle Assessment of integral revalorization of vine shoots from a biorefinery perspective. Science of the Total Environment, 2018, 624, 225-240.	3.9	43
97	Microwave assisted pretreatment of eucalyptus sawdust enhances enzymatic saccharification and maximizes fermentable sugar yield. Renewable Energy, 2018, 127, 653-660.	4.3	42
98	Endogenous lycopene improves ethanol production under acetic acid stress in <i>Saccharomyces cerevisiae</i> . Biotechnology for Biofuels, 2018, 11, 107.	6.2	21
100	Identification and characterization of a novel bacterial pyranose 2-oxidase from the lignocellulolytic bacterium <i>Pantoea ananatis</i> Sd-1. Biotechnology Letters, 2018, 40, 871-880.	1.1	6
101	Integrated bioethanol production from triticale grain and lignocellulosic straw in Western Canada. Industrial Crops and Products, 2018, 117, 75-87.	2.5	25
102	Copper (II) addition to accelerate lactic acid production from co-fermentation of food waste and waste activated sludge: Understanding of the corresponding metabolisms, microbial community and predictive functional profiling. Waste Management, 2018, 76, 414-422.	3.7	37
103	Biomethanization of solid wastes from the alcoholic beverage industry: Malt and sloe. Kinetic and microbiological analysis. Chemical Engineering Journal, 2018, 334, 650-656.	6.6	9
104	TALEN-mediated targeted mutagenesis of more than 100 <i>COMT</i> copies/alleles in highly polyploid sugarcane improves saccharification efficiency without compromising biomass yield. Plant Biotechnology Journal, 2018, 16, 856-866.	4.1	112
105	Impact of Flue Gas Compounds on Microalgae and Mechanisms for Carbon Assimilation and Utilization. ChemSusChem, 2018, 11, 334-355.	3.6	92
106	Health Concerns Associated with Biofuel Production. , 2018, , 97-105.		5
107	Synergetic promotion of syntrophic methane production from anaerobic digestion of complex organic wastes by biochar: Performance and associated mechanisms. Bioresource Technology, 2018, 250, 812-820.	4.8	250
108	Metabolic profiles analysis of 1,3-propanediol production process by <i>Clostridium butyricum</i> through repeated batch fermentation coupled with activated carbon adsorption. Biotechnology and Bioengineering, 2018, 115, 684-693.	1.7	22
109	Environmental Assessment of Emerging Technologies: Recommendations for Prospective LCA. Journal of Industrial Ecology, 2018, 22, 1286-1294.	2.8	272

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110	Operational Strategies for Enzymatic Hydrolysis in a Biorefinery. <i>Biofuel and Biorefinery Technologies</i> , 2018, , 223-248.	0.1	17
111	Optimization of C16 and C18 fatty alcohol production by an engineered strain of <i>Lipomyces starkeyi</i> . <i>Journal of Industrial Microbiology and Biotechnology</i> , 2018, 45, 1-14.	1.4	36
112	A Genetic System for the Thermophilic Acetogenic Bacterium <i>Thermoanaerobacter kivui</i> . <i>Applied and Environmental Microbiology</i> , 2018, 84, .	1.4	47
113	Comparative Assessment of Sludge Pre-treatment Techniques to Enhance Sludge Dewaterability and Biogas Production. <i>Clean - Soil, Air, Water</i> , 2018, 46, 1700569.	0.7	8
114	ETHANOL PRODUCTION FROM SUGAR LIBERATED FROM <i>Pinus SP.</i> AND <i>Eucalyptus SP.</i> BIOMASS PRETREATED BY IONIC LIQUIDS. <i>Brazilian Journal of Chemical Engineering</i> , 2018, 35, 467-476.	0.7	3
115	Techno-economic comparison of three scenarios for upgrading a hemicellulose-rich pre-pulping extract to mixed-alcohols. <i>Biofuels, Bioproducts and Biorefining</i> , 2018, 12, 1082-1094.	1.9	2
116	Biogas and Ethanol from Wheat Grain or Straw: Is There a Trade-Off between Climate Impact, Avoidance of iLUC and Production Cost?. <i>Energies</i> , 2018, 11, 2633.	1.6	27
117	<i>Clostridium butyricum</i> population balance model: Predicting dynamic metabolic flux distributions using an objective function related to extracellular glycerol content. <i>PLoS ONE</i> , 2018, 13, e0209447.	1.1	9
118	Oxidoreductases and Reactive Oxygen Species in Conversion of Lignocellulosic Biomass. <i>Microbiology and Molecular Biology Reviews</i> , 2018, 82, .	2.9	204
119	Production and characterization of hybrid coal using sugar impurities extracted from pitch pine. <i>Applied Thermal Engineering</i> , 2018, 145, 174-183.	3.0	4
120	Reduced use of phosphorus and water in sequential dark fermentation and anaerobic digestion of wheat straw and the application of ensiled steam-pretreated lucerne as a macronutrient provider in anaerobic digestion. <i>Biotechnology for Biofuels</i> , 2018, 11, 281.	6.2	10
121	Thermodynamics of Iron(II) and Substrate Binding to the Ethylene-Forming Enzyme. <i>Biochemistry</i> , 2018, 57, 5696-5705.	1.2	17
122	Ultrastructure and Enzymatic Hydrolysis of Deuterated Switchgrass. <i>Scientific Reports</i> , 2018, 8, 13226.	1.6	9
123	Microbial Cellulases: Role in Second-Generation Ethanol Production. , 2018, , 167-187.		3
124	A review of integration strategies of lignocelluloses and other wastes in 1st generation bioethanol processes. <i>Process Biochemistry</i> , 2018, 75, 173-186.	1.8	63
125	Fed-batch production of <i>tryptophan</i> from glycerol using recombinant <i>Escherichia coli</i> . <i>Biotechnology and Bioengineering</i> , 2018, 115, 2881-2892.	1.7	26
126	Enrichment of syngas-converting mixed microbial consortia for ethanol production and thermodynamics-based design of enrichment strategies. <i>Biotechnology for Biofuels</i> , 2018, 11, 198.	6.2	32
127	The Influence of Nonionic Surfactant Adsorption on Enzymatic Hydrolysis of Oil Palm Fruit Bunch. <i>Applied Biochemistry and Biotechnology</i> , 2018, 186, 895-908.	1.4	13

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128	Advances in synthetic biology of oleaginous yeast <i>Yarrowia lipolytica</i> for producing non-native chemicals. <i>Applied Microbiology and Biotechnology</i> , 2018, 102, 5925-5938.	1.7	78
129	Development of cell recycle technology incorporating nutrient supplementation for lignocellulosic ethanol fermentation using industrial yeast <i>Saccharomyces cerevisiae</i> . <i>Biochemical Engineering Journal</i> , 2018, 137, 23-29.	1.8	12
130	Co-fermentation of cellobiose and xylose by mixed culture of recombinant <i>Saccharomyces cerevisiae</i> and kinetic modeling. <i>PLoS ONE</i> , 2018, 13, e0199104.	1.1	17
131	Valorisation of deinking sludge as a substrate for lignocellulolytic enzymes production by <i>Pleurotus ostreatus</i> . <i>Journal of Cleaner Production</i> , 2018, 197, 253-263.	4.6	5
132	High-efficiency second generation ethanol from the hemicellulosic fraction of softwood chips mixed with construction and demolition residues. <i>Bioresource Technology</i> , 2018, 266, 421-430.	4.8	12
133	Comparative evaluation of lignocellulosic biorefinery scenarios under a life cycle assessment approach. <i>Biofuels, Bioproducts and Biorefining</i> , 2018, 12, 1047-1064.	1.9	34
134	Photosynthetic and Lipogenic Response Under Elevated CO ₂ and H ₂ Conditions—High Carbon Uptake and Fatty Acids Unsaturation. <i>Frontiers in Energy Research</i> , 2018, 6, .	1.2	9
135	Estimating the environmental impacts of a brewery waste-based biorefinery: Bio-ethanol and xylooligosaccharides joint production case study. <i>Industrial Crops and Products</i> , 2018, 123, 331-340.	2.5	58
136	Phototrophic production of heterologous diterpenoids and a hydroxy-functionalized derivative from <i>Chlamydomonas reinhardtii</i> . <i>Metabolic Engineering</i> , 2018, 49, 116-127.	3.6	91
137	Hydrogen consumption and methanogenic community evolution in anodophilic biofilms in single chamber microbial electrolysis cells under different startup modes. <i>Environmental Science: Water Research and Technology</i> , 2018, 4, 1839-1850.	1.2	10
138	The active microbial community more accurately reflects the anaerobic digestion process: 16S rRNA (gene) sequencing as a predictive tool. <i>Microbiome</i> , 2018, 6, 63.	4.9	138
139	Lignin from an integrated process consisting of liquid hot water and ethanol organosolv: Physicochemical and antioxidant properties. <i>International Journal of Biological Macromolecules</i> , 2018, 120, 159-169.	3.6	80
140	Lignocellulose integration to 1G-ethanol process using filamentous fungi: fermentation prospects of edible strain of <i>Neurospora intermedia</i> . <i>BMC Biotechnology</i> , 2018, 18, 49.	1.7	12
141	Actinobacteria. , 2018, , 191-205.		9
142	Bioethanol from Lignocellulosic Biomass. , 2019, , 997-1022.		8
143	Microalgal/cyanobacterial biofilm formation on selected surfaces: the effects of surface physicochemical properties and culture media composition. <i>Journal of Applied Phycology</i> , 2019, 31, 375-387.	1.5	21
144	Enhancement of C-phycocyanin productivity by <i>Arthrospira platensis</i> when growing on palm oil mill effluent in a two-stage semi-continuous cultivation mode. <i>Journal of Applied Phycology</i> , 2019, 31, 2855-2867.	1.5	23
145	Production of Motor Fuel from Lignocellulose in a Three-Stage Process (Review and Experimental) Tj ETQq1 1 0.784314 rgBT /Overlo 0,4	0,4	8

#	ARTICLE	IF	CITATIONS
146	Binding and Catalytic Mechanisms of Veratryl Alcohol Oxidation by Lignin Peroxidase: A Theoretical and Experimental Study. <i>Computational and Structural Biotechnology Journal</i> , 2019, 17, 1066-1074.	1.9	22
147	Microbial fuel cells as a sustainable platform technology for bioenergy, biosensing, environmental monitoring, and other low power device applications. <i>Fuel</i> , 2019, 255, 115682.	3.4	88
148	Engineering of bio-mimetic substratum topographies for enhanced early colonization of filamentous algae. <i>PLoS ONE</i> , 2019, 14, e0219150.	1.1	6
149	Cellulases Production by a <i>Trichoderma</i> sp. Using Food Manufacturing Wastes. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 4419.	1.3	9
150	Discovery and implementation of a novel pathway for n-butanol production via 2-oxoglutarate. <i>Biotechnology for Biofuels</i> , 2019, 12, 230.	6.2	12
151	Evaluation of <i>Macaranga tanarius</i> as a biomass feedstock for fermentable sugars production. <i>Bioresource Technology</i> , 2019, 294, 122195.	4.8	24
152	Synthesis of ethanol and its catalytic conversion. <i>Advances in Catalysis</i> , 2019, 64, 89-191.	0.1	13
153	Smart fermentation engineering for butanol production: designed biomass and consolidated bioprocessing systems. <i>Applied Microbiology and Biotechnology</i> , 2019, 103, 9359-9371.	1.7	32
154	Biotechnological Applications of Nonconventional Yeasts. , 2019, , .		6
155	Production of galactitol from galactose by the oleaginous yeast <i>Rhodospiridium toruloides</i> IFO0880. <i>Biotechnology for Biofuels</i> , 2019, 12, 250.	6.2	34
156	Isopropanol-butanol production from sugarcane and sugarcane-sweet sorghum juices by <i>Clostridium beijerinckii</i> DSM 6423. <i>Biomass and Bioenergy</i> , 2019, 128, 105331.	2.9	22
157	Characterization of lipase bacteria from water in Mahakam river port Samarinda. <i>Journal of Physics: Conference Series</i> , 2019, 1277, 012019.	0.3	0
158	Formation of extracellular β -chitin nanofibers during batch cultivation of marine diatom <i>Cyclotella</i> sp. at silicon limitation. <i>Journal of Applied Phycology</i> , 2019, 31, 3479-3490.	1.5	10
159	Microbial Responses to Different Operating Practices for Biogas Production Systems. , 0, , .		40
160	Process integration for ethanol production from corn and corn stover as mixed substrates. <i>Bioresource Technology</i> , 2019, 279, 10-16.	4.8	45
161	Biomass pyrolysis: A review of the process development and challenges from initial researches up to the commercialisation stage. <i>Journal of Energy Chemistry</i> , 2019, 39, 109-143.	7.1	412
162	Bio-sourced Lignin: Recovery Techniques and Principles. , 2019, , 65-150.		0
163	Techno-economic and life cycle assessments of anaerobic digestion " A review. <i>Biocatalysis and Agricultural Biotechnology</i> , 2019, 20, 101207.	1.5	70

#	ARTICLE	IF	CITATIONS
164	SpyTag/SpyCatcher cyclization enhances the thermostability and organic solvent tolerance of l-phenylalanine aldolase. <i>Biotechnology Letters</i> , 2019, 41, 987-994.	1.1	19
165	Multi-omics characterization of the necrotrophic mycoparasite <i>Saccharomycopsis schoenii</i> . <i>PLoS Pathogens</i> , 2019, 15, e1007692.	2.1	18
166	pH/redox dual response nanoparticles with poly- β -glutamic acid for enhanced intracellular drug delivery. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019, 577, 412-420.	2.3	11
167	Investigation of alkaline hydrogen peroxide pretreatment and Tween 80 to enhance enzymatic hydrolysis of sugarcane bagasse. <i>Biotechnology for Biofuels</i> , 2019, 12, 107.	6.2	81
168	Enhancing anaerobic digestion of agricultural residues by microaerobic conditions. <i>Biomass Conversion and Biorefinery</i> , 2019, , 1.	2.9	6
169	Utilization of waste cake for fermentative ethanol production. <i>Science of the Total Environment</i> , 2019, 673, 378-383.	3.9	32
170	Extracellular Carbohydrate-Active Enzymes of <i>Trichoderma</i> and Their Role in the Bioconversion of Non-edible Biomass to Biofuel. <i>Fungal Biology</i> , 2019, , 363-384.	0.3	0
171	Biochemical engineering in China. <i>Reviews in Chemical Engineering</i> , 2019, 35, 929-993.	2.3	1
172	Enhancing Carbohydrate Productivity in Photosynthetic Microorganism Production: A Comparison Between Cyanobacteria and Microalgae and the Effect of Cultivation Systems. , 2019, , 37-67.		7
173	Sweet Sorghum: An Excellent Crop for Renewable Fuels Production. <i>Biofuel and Biorefinery Technologies</i> , 2019, , 291-314.	0.1	2
174	Mushroom cultivation and biogas production: A sustainable reuse of organic resources. <i>Energy for Sustainable Development</i> , 2019, 50, 50-60.	2.0	55
175	Characterization and utilization of aqueous products from hydrothermal conversion of biomass for bio-oil and hydro-char production: a review. <i>Green Chemistry</i> , 2019, 21, 1553-1572.	4.6	159
176	Pretreatment for biorefineries: a review of common methods for efficient utilisation of lignocellulosic materials. <i>Biotechnology for Biofuels</i> , 2019, 12, 294.	6.2	282
177	Sequestering of CO ₂ to Value-Added Products through Various Biological Processes. <i>ACS Symposium Series</i> , 2019, , 261-284.	0.5	2
178	Life Cycle Assessment (LCA) of Bioethanol Produced From Different Food Crops: Economic and Environmental Impacts. , 2019, , 385-399.		5
179	Economic value and environmental impact analysis of lignocellulosic ethanol production: assessment of different pretreatment processes. <i>Clean Technologies and Environmental Policy</i> , 2019, 21, 637-654.	2.1	58
180	Combined pretreatments of eucalyptus sawdust for ethanol production within a biorefinery approach. <i>Biomass Conversion and Biorefinery</i> , 2019, 9, 293-304.	2.9	27
181	Exploring the Molecular Mechanisms of Extracellular Electron Transfer for Harnessing Reducing Power in METs. , 2019, , 261-293.		3

#	ARTICLE	IF	CITATIONS
182	Lactic acid production from sugarcane bagasse hydrolysates by <i>Lactobacillus pentosus</i> : Integrating xylose and glucose fermentation. <i>Biotechnology Progress</i> , 2019, 35, e2718.	1.3	49
183	Mechanical and Thermal Pretreatment Processes for Increasing Sugar Production from Woody Biomass Via Enzymatic Hydrolysis. <i>Waste and Biomass Valorization</i> , 2019, 10, 2057-2065.	1.8	17
184	Assessing the aggregated environmental benefits from by-product and utility synergies in the Swedish biofuel industry. <i>Biofuels</i> , 2020, 11, 683-698.	1.4	13
185	Mesophilic and thermophilic anaerobic digestion of aqueous phase generated from hydrothermal liquefaction of cornstalk: Molecular and metabolic insights. <i>Water Research</i> , 2020, 168, 115199.	5.3	58
186	The Production of Biogas, Biodiesel as High-Value Bio-Based Product and Multiple Bio-Products Through an Integration Approach of the Anaerobic Digestion and Fermentation Processes. , 2020, , 686-694.		1
188	Xylanase inhibition by the derivatives of lignocellulosic material. <i>Bioresource Technology</i> , 2020, 300, 122740.	4.8	18
189	Expression and characterization of a cold-adapted, salt- and glucose-tolerant GH1 β -glucosidase obtained from <i>Thermobifida halotolerans</i> and its use in sugarcane bagasse hydrolysis. <i>Biomass Conversion and Biorefinery</i> , 2021, 11, 1245-1253.	2.9	14
190	Sugarcane biomass conversion influenced by lignin. <i>Biofuels, Bioproducts and Biorefining</i> , 2020, 14, 469-480.	1.9	35
191	Evaluation of structural factors affecting high solids enzymatic saccharification of alkali-pretreated sugarcane bagasse. <i>Cellulose</i> , 2020, 27, 1441-1450.	2.4	6
192	Direct production of fatty alcohols from glucose using engineered strains of <i>Yarrowia lipolytica</i> . <i>Metabolic Engineering Communications</i> , 2020, 10, e00105.	1.9	37
193	Stochastic economic analysis of coal-alternative fuel production from municipal solid wastes employing hydrothermal carbonization in Zimbabwe. <i>Science of the Total Environment</i> , 2020, 716, 135337.	3.9	7
194	A novel high performance in-silico screened metagenome-derived alkali-thermostable endo- β -1,4-glucanase for lignocellulosic biomass hydrolysis in the harsh conditions. <i>BMC Biotechnology</i> , 2020, 20, 56.	1.7	37
195	Life at the Frozen Limit: Microbial Carbon Metabolism Across a Late Pleistocene Permafrost Chronosequence. <i>Frontiers in Microbiology</i> , 2020, 11, 1753.	1.5	16
196	Methane, Microbes and Models in Amazonian Floodplains: State of the Art and Perspectives. , 0, , .		2
197	Physical techniques shed light on the differences in sugarcane bagasse structure subjected to steam explosion pretreatments at equivalent combined severity factors. <i>Industrial Crops and Products</i> , 2020, 158, 113003.	2.5	14
198	Wood hemicelluloses exert distinct biomechanical contributions to cellulose fibrillar networks. <i>Nature Communications</i> , 2020, 11, 4692.	5.8	117
199	The use of fluorescent protein-tagged carbohydrate-binding modules to evaluate the influence of drying on cellulose accessibility and enzymatic hydrolysis. <i>RSC Advances</i> , 2020, 10, 27152-27160.	1.7	9
200	A strategy for synergistic ethanol yield and improved production predictability through blending feedstocks. <i>Biotechnology for Biofuels</i> , 2020, 13, 156.	6.2	5

#	ARTICLE	IF	CITATIONS
201	Designing next generation recombinant protein expression platforms by modulating the cellular stress response in Escherichia coli. <i>Microbial Cell Factories</i> , 2020, 19, 227.	1.9	7
202	The Role of Biorefinery Co-Products, Market Proximity and Feedstock Environmental Footprint in Meeting Biofuel Policy Goals for Winter Barley-to-Ethanol. <i>Energies</i> , 2020, 13, 2236.	1.6	7
203	Process Strategies for the Transition of 1G to Advanced Bioethanol Production. <i>Processes</i> , 2020, 8, 1310.	1.3	55
204	Lipid dynamics and nutritional value of the estuarine strain <i>Isochrysis galbana</i> VLP grown from hypo to hyper salinity. <i>Journal of Applied Phycology</i> , 2020, 32, 3749-3766.	1.5	8
205	A systematic analysis of economic evaluation studies of second-generation biorefineries providing chemicals by applying biotechnological processes. <i>Biofuels, Bioproducts and Biorefining</i> , 2020, 14, 1028-1045.	1.9	10
206	Deciphering the role of calcium peroxide on the fate of antibiotic resistance genes and mobile genetic elements during bioelectrochemically-assisted anaerobic composting of excess dewatered sludge. <i>Chemical Engineering Journal</i> , 2020, 397, 125355.	6.6	20
207	High titer fatty alcohol production in <i>Lipomyces starkeyi</i> by fed-batch fermentation. <i>Current Research in Biotechnology</i> , 2020, 2, 83-87.	1.9	5
208	High Gravity Fermentation of Sugarcane Bagasse Hydrolysate by <i>Saccharomyces pastorianus</i> to Produce Economically Distillable Ethanol Concentrations: Necessity of Medium Components Examined. <i>Fermentation</i> , 2020, 6, 8.	1.4	4
209	Constraints and advances in high-solids enzymatic hydrolysis of lignocellulosic biomass: a critical review. <i>Biotechnology for Biofuels</i> , 2020, 13, 58.	6.2	140
210	Microbial Fuel Cells: Nanomaterials Based on Anode and Their Application. <i>Energy Technology</i> , 2020, 8, 2000206.	1.8	61
211	Metabolic dependencies govern microbial syntrophies during methanogenesis in an anaerobic digestion ecosystem. <i>Microbiome</i> , 2020, 8, 22.	4.9	91
212	Production of selenium- and zinc-enriched <i>Lemna</i> and <i>Azolla</i> as potential micronutrient-enriched bioproducts. <i>Water Research</i> , 2020, 172, 115522.	5.3	16
213	Performance targets defined by retro-techno-economic analysis for the use of soybean protein as saccharification additive in an integrated biorefinery. <i>Scientific Reports</i> , 2020, 10, 7367.	1.6	22
214	Bio-methanol as a renewable fuel from waste biomass: Current trends and future perspective. <i>Fuel</i> , 2020, 273, 117783.	3.4	120
215	Mixed-culture fermentation for enhanced C21-hydroxylation of glucocorticoids. <i>Journal of Biotechnology</i> , 2020, 314-315, 14-24.	1.9	2
216	The <i>Lipomyces starkeyi</i> gene Ls120451 encodes a cellobiose transporter that enables cellobiose fermentation in <i>Saccharomyces cerevisiae</i> . <i>FEMS Yeast Research</i> , 2020, 20, .	1.1	6
217	Correlations between lignin content and structural robustness in plants revealed by X-ray ptychography. <i>Scientific Reports</i> , 2020, 10, 6023.	1.6	29
218	Quantification of Synthetic Nonmetallic Inclusion Multiphase Mixtures from a CaO-Al ₂ O ₃ -MgO-CaS System Using Raman Spectroscopy. <i>Steel Research International</i> , 2021, 92, 2000322.	1.0	4

#	ARTICLE	IF	CITATIONS
219	Balancing sugar recovery and inhibitor generation during energycane processing: Coupling cryogenic grinding with hydrothermal pretreatment at low temperatures. <i>Bioresource Technology</i> , 2021, 321, 124424.	4.8	21
220	The profile secretion of <i>Aspergillus clavatus</i> : Different pre-treatments of sugarcane bagasse distinctly induces holocellulases for the lignocellulosic biomass conversion into sugar. <i>Renewable Energy</i> , 2021, 165, 748-757.	4.3	13
221	Enhanced power generation from algal biomass using multi- α -anode membrane-less sediment microbial fuel cell. <i>International Journal of Energy Research</i> , 2021, 45, 2011-2022.	2.2	24
222	Recent Advances in Lignin Modification and Its Application in Wastewater Treatment. <i>ACS Symposium Series</i> , 2021, , 143-173.	0.5	3
223	A review on key design and operational parameters to optimize and develop hydrothermal liquefaction of biomass for biorefinery applications. <i>Green Chemistry</i> , 2021, 23, 1404-1446.	4.6	117
224	Value-Added Products from Agroindustry By-product: Bagasse. , 2021, , 339-351.		1
225	Outlook and challenges for recovering energy and water from complex organic waste using hydrothermal liquefaction. <i>Sustainable Energy and Fuels</i> , 2021, 5, 2201-2227.	2.5	10
226	Biomass Waste as Sustainable Raw Material for Energy and Fuels. <i>Sustainability</i> , 2021, 13, 794.	1.6	108
227	The role of the active site tyrosine in the mechanism of lytic polysaccharide monooxygenase. <i>Chemical Science</i> , 2021, 12, 352-362.	3.7	17
228	Effect of lignin-blocking agent on enzyme hydrolysis of acid pretreated hemp waste. <i>RSC Advances</i> , 2021, 11, 22025-22033.	1.7	11
229	Role of Snf1 ² in lipid accumulation in the high lipid-producing fungus <i>Mucor circinelloides</i> WJ11. <i>Microbial Cell Factories</i> , 2021, 20, 52.	1.9	16
230	Biorefinery Platform for <i>Spathaspora passalidarum</i> NRRL Y-27907 in the Production of Ethanol, Xylitol, and Single Cell Protein from Sugarcane Bagasse. <i>Bioenergy Research</i> , 2022, 15, 1169-1181.	2.2	21
231	Investigation of the Ferredoxin TM 's Influence on the Anaerobic and Aerobic, Enzymatic H ₂ Production. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 641305.	2.0	3
232	Integration of banana crop residues as biomass feedstock into conventional production of first-generation fuel ethanol from sugarcane: a simulation-based case study. <i>Biofuels, Bioproducts and Biorefining</i> , 2021, 15, 671-689.	1.9	2
233	Sustainable Cereal Straw Management: Use as Feedstock for Emerging Biobased Industries or Cropland Soil Incorporation?. <i>Waste and Biomass Valorization</i> , 2021, 12, 5649-5663.	1.8	14
234	Conversion of rice straw into 5-hydroxymethylfurfural: review and comparative process evaluation. <i>Biomass Conversion and Biorefinery</i> , 2022, 12, 1013-1047.	2.9	14
235	Effluent solids recirculation to municipal sludge digesters enhances long-chain fatty acids degradation capacity. <i>Biotechnology for Biofuels</i> , 2021, 14, 56.	6.2	10
236	Development of a reversible regulatory system for gene expression in the cyanobacterium <i>Synechocystis</i> sp. PCC 6803 by quorum-sensing machinery from marine bacteria. <i>Journal of Applied Phycology</i> , 2021, 33, 1651-1662.	1.5	5

#	ARTICLE	IF	CITATIONS
237	Combination of arbuscular mycorrhizal fungi and phosphate solubilizing bacteria on growth and production of <i>Helianthus tuberosus</i> under field condition. <i>Scientific Reports</i> , 2021, 11, 6501.	1.6	29
238	Mitigation of pretreatment-derived inhibitors during lignocellulosic ethanol fermentation using spent grain as a nitrogen source. <i>Biomass Conversion and Biorefinery</i> , 0, , 1.	2.9	2
239	A comprehensive review of characterization, pretreatment and its applications on different lignocellulosic biomass for bioethanol production. <i>Biomass Conversion and Biorefinery</i> , 2023, 13, 1503-1527.	2.9	54
240	Enhancing L-malate production of <i>Aspergillus oryzae</i> by nitrogen regulation strategy. <i>Applied Microbiology and Biotechnology</i> , 2021, 105, 3101-3113.	1.7	10
241	A biorefinery approach to obtain antioxidants, lignin and sugars from exhausted olive pomace. <i>Journal of Industrial and Engineering Chemistry</i> , 2021, 96, 356-363.	2.9	29
242	Investigating the effects of substrate morphology and experimental conditions on the enzymatic hydrolysis of lignocellulosic biomass through modeling. <i>Biotechnology for Biofuels</i> , 2021, 14, 103.	6.2	10
243	Optimization of Yeast, Sugar and Nutrient Concentrations for High Ethanol Production Rate Using Industrial Sugar Beet Molasses and Response Surface Methodology. <i>Fermentation</i> , 2021, 7, 86.	1.4	18
245	Current perspectives on integrated approaches to enhance lipid accumulation in microalgae. <i>3 Biotech</i> , 2021, 11, 303.	1.1	19
246	Optimal fed-batch bioreactor operating strategies for the microbial production of lignocellulosic bioethanol and exploration of their economic implications: A step forward towards sustainability and commercialization. <i>Journal of Cleaner Production</i> , 2021, 295, 126384.	4.6	10
247	Development and validation of time-domain ^1H -NMR relaxometry correlation for high-throughput phenotyping method for lipid contents of lignocellulosic feedstocks. <i>GCB Bioenergy</i> , 2021, 13, 1179-1190.	2.5	5
249	Analysis of methods for quantifying yeast cell concentration in complex lignocellulosic fermentation processes. <i>Scientific Reports</i> , 2021, 11, 11293.	1.6	10
251	Rice SWEET proteins: the key targets by the bacterial blight pathogen, <i>Xanthomonas oryzae</i> pv. <i>oryzae</i> to ensure nutrition in the rice apoplast during infection. <i>Indian Phytopathology</i> , 2021, 74, 323-331.	0.7	3
252	Acetic acid stress in budding yeast: From molecular mechanisms to applications. <i>Yeast</i> , 2021, 38, 391-400.	0.8	46
253	Optimisation of Pretreatment Catalyst, Enzyme Cocktail and Solid Loading for Improved Ethanol Production from Sweet Sorghum Bagasse. <i>Bioenergy Research</i> , 2022, 15, 1083-1095.	2.2	6
254	Evolution-aided engineering of plant specialized metabolism. <i>ABIOTECH</i> , 2021, 2, 240-263.	1.8	11
255	The use of maize stover and sugar beet pulp as feedstocks in industrial fermentation plants – An economic and environmental perspective. <i>Cleaner Environmental Systems</i> , 2021, 2, 100005.	2.2	5
256	Drug delivery applications of poly- γ -glutamic acid. <i>Future Journal of Pharmaceutical Sciences</i> , 2021, 7, .	1.1	9
257	Microwave subcritical water pre-treatment and enzymatic hydrolysis of geographical identification (GI) tag Indian black rice (<i>Chakhao Poireiton</i>) straw for fermentable sugar production. <i>Biofuels</i> , 0, , 1-8.	1.4	4

#	ARTICLE	IF	CITATIONS
258	A Framework for Investigating Rules of Life by Establishing Zones of Influence. Integrative and Comparative Biology, 2021, , .	0.9	1
259	Potential of marine sponge-derived fungi in the aquaculture system. Biodiversitas, 2021, 22, .	0.2	2
260	Advancement of fermentable sugars from fresh elephant ear plant weed for efficient bioethanol production. Environment, Development and Sustainability, 2022, 24, 7377-7387.	2.7	18
261	Ball milling as an important pretreatment technique in lignocellulose biorefineries: a review. Biomass Conversion and Biorefinery, 2023, 13, 15593-15616.	2.9	25
262	Microalgae Cultivation in Photobioreactors Aiming at Biodiesel Production. , 0, , .		2
263	Impact of operational conditions on methane yield and microbial community composition during biological methanation in in situ and hybrid reactor systems. Biotechnology for Biofuels, 2021, 14, 170.	6.2	10
264	Two-Stage Fractionation of Sugarcane Bagasse by a Flow-through Hydrothermal/Ethanosolv Process. Industrial & Engineering Chemistry Research, 2021, 60, 12629-12639.	1.8	3
266	Xylanolytic Enzymes in Pulp and Paper Industry: New Technologies and Perspectives. Molecular Biotechnology, 2022, 64, 130-143.	1.3	19
267	Recent Advances in Feedstock and Lipase Research and Development towards Commercialization of Enzymatic Biodiesel. Processes, 2021, 9, 1743.	1.3	10
268	Retrofitting analysis of a biorefinery: Integration of 1st and 2nd generation ethanol through organosolv pretreatment of oat husks and fungal cultivation. Bioresource Technology Reports, 2021, 15, 100762.	1.5	5
270	Principles and advancements in improving anaerobic digestion of organic waste via direct interspecies electron transfer. Renewable and Sustainable Energy Reviews, 2021, 148, 111367.	8.2	61
271	Carbon- and metal-based mediators modulate anaerobic methanogenesis and phenol removal: Focusing on stimulatory and inhibitory mechanism. Journal of Hazardous Materials, 2021, 420, 126615.	6.5	28
272	Enzymatic hydrolysis for the systematic production of second-generation glucose from the dual polysaccharide reserves of an anti-pollutant plant. Bioresource Technology, 2021, 340, 125711.	4.8	3
275	The application of antisense technology for crop improvement: A review. Cogent Food and Agriculture, 2021, 7, .	0.6	4
276	Role of metagenomics in prospecting novel endoglucanases, accentuating functional metagenomics approach in second-generation biofuel production: a review. Biomass Conversion and Biorefinery, 2023, 13, 1371-1398.	2.9	18
277	Techno-economic evaluation of a natural deep eutectic solvent-based biorefinery: Exploring different design scenarios. Biofuels, Bioproducts and Biorefining, 2020, 14, 746-763.	1.9	37
278	Starch. Springer Series on Polymer and Composite Materials, 2020, , 287-310.	0.5	3
279	14 Engineering Saccharomyces cerevisiae for Production of Fatty Acids and Their Derivatives. , 2020, , 339-368.		4

#	ARTICLE	IF	CITATIONS
280	Progress and Prospects in the Production of Cellulosic Ethanol. , 2019, , 245-275.		3
281	Establishment and differential performance of hyperthermophilic microbial community during anaerobic self-degradation of waste activated sludge. Environmental Research, 2020, 191, 110035.	3.7	8
287	Opportunities for holistic waste stream valorization from food waste treatment facilities: a review. Reviews in Chemical Engineering, 2022, 38, 35-53.	2.3	8
288	Starch- and cellulose-related microbial diversity of soil sown with sugarcane crops in the Papaloapan Basin, a megadiverse region of Mexico. Nova Scientia, 2018, 10, 222-243.	0.0	1
289	Finger Millet as a Sustainable Feedstock for Bioethanol Production. Open Agriculture Journal, 2020, 14, 257-272.	0.3	6
290	The use of metabolic engineering to produce fatty acid-derived biofuel and chemicals in <i>Saccharomyces cerevisiae</i> : a review. AIMS Bioengineering, 2016, 3, 468-492.	0.6	5
291	Reconfiguring workup steps in multi-cycle extractive bioconversion for sustainable fatty alcohol production: a process engineering approach. Reaction Chemistry and Engineering, 2022, 7, 310-318.	1.9	3
292	Microbiome signature and diversity regulates the level of energy production under anaerobic condition. Scientific Reports, 2021, 11, 19777.	1.6	20
293	Yarrowia lipolytica as a Cell Factory for Oleochemical Biotechnology. , 2016, , 1-18.		2
295	Techno-Economic Aspects in the Evaluation of Biorefineries for Production of Second-Generation Bioethanol. , 2017, , 401-420.		1
296	Yarrowia lipolytica as a Cell Factory for Oleochemical Biotechnology. , 2017, , 1-19.		1
299	Cellulose. Springer Series on Polymer and Composite Materials, 2020, , 311-331.	0.5	0
302	Evaluation of antioxidant, organic acid, and volatile compounds in coffee pulp wine fermented with native yeasts isolated from coffee cherries. Food Science and Technology International, 2022, 28, 716-727.	1.1	3
305	The ins and outs of SWEETs in plants: Current understanding of the basics and their prospects in crop improvement. Journal of Biosciences, 2021, 46, 1.	0.5	0
306	Prefeasibility study for the nanocellulose production from biomass in the Colombian context. Biomass Conversion and Biorefinery, 2022, 12, 4245-4256.	2.9	3
307	High methanol:formate ratios induce butanol production in <i>Eubacterium limosum</i> . Microbial Biotechnology, 2022, 15, 1542-1549.	2.0	13
308	Carotenoids as Natural Colorful Additives for the Food Industry. , 0, , .		1
309	Optimization of fermentation conditions for the production of acidophilic β -glucosidase by <i>Trichoderma reesei</i> S12 from mangrove soil. Biotechnology and Biotechnological Equipment, 2021, 35, 1838-1849.	0.5	0

#	ARTICLE	IF	CITATIONS
310	Genetic Diversity and Population Structure of Sorghum [<i>Sorghum Bicolor</i> (L.) Moench] Accessions as Revealed by Single Nucleotide Polymorphism Markers. <i>Frontiers in Plant Science</i> , 2021, 12, 799482.	1.7	20
311	Towards a practical industrial 2G ethanol production process based on immobilized recombinant <i>S. Cerevisiae</i> : Medium and strain selection for robust integrated fixed-bed reactor operation. <i>Renewable Energy</i> , 2022, 185, 363-375.	4.3	12
312	Improvement of batch and continuous ethanol fermentations from sweet sorghum stem juice in a packed bed bioreactor by immobilized yeast cells under microaeration. <i>Bioresource Technology Reports</i> , 2022, 17, 100908.	1.5	5
313	Thermostable Mutants of Glycoside Hydrolase Family 6 Cellobiohydrolase from the Basidiomycete <i>Phanerochaete chrysosporium</i> . <i>Journal of Applied Glycoscience</i> (1999), 2020, 67, 79-86.	0.3	4
316	Changes in chemical composition, structural and functional microbiome during alfalfa (<i>Medicago</i>) Tj ETQq0 0 0 rgBT /Overlock, 10 Tf 50	2.1	13
317	Biomass as activated carbon precursor and potential in supercapacitor applications. <i>Biomass Conversion and Biorefinery</i> , 0, , 1.	2.9	18
318	Biohythane and organic acid production from food waste by two-stage anaerobic digestion: a review within biorefinery framework. <i>International Journal of Environmental Science and Technology</i> , 2022, 19, 12791-12824.	1.8	13
319	Differences in nutrient remobilization characteristics and relationship to senescence and grain nutrient content among rice varieties. <i>Journal of Crop Science and Biotechnology</i> , 0, , 1.	0.7	1
320	Directed evolution of <i>Chlorella</i> sp. HS2 towards enhanced lipid accumulation by ethyl methanesulfonate mutagenesis in conjunction with fluorescence-activated cell sorting based screening. <i>Fuel</i> , 2022, 316, 123410.	3.4	13
321	Declining carbohydrate solubilization with increasing solids loading during fermentation of cellulosic feedstocks by <i>Clostridium thermocellum</i> : documentation and diagnostic tests. , 2022, 15, 12.		4
322	Phage Genome Diversity in a Biogas-Producing Microbiome Analyzed by Illumina and Nanopore GridION Sequencing. <i>Microorganisms</i> , 2022, 10, 368.	1.6	8
323	Biochemical Characterization of Thermostable Carboxymethyl Cellulase and β -Glucosidase from <i>Aspergillus fumigatus</i> JCM 10253. <i>Applied Biochemistry and Biotechnology</i> , 2022, 194, 2503-2527.	1.4	16
324	QTL mapping of a Brazilian bioethanol strain links the cell wall protein-encoding gene GAS1 to low pH tolerance in <i>S. cerevisiae</i> . <i>Biotechnology for Biofuels</i> , 2021, 14, 239.	6.2	6
325	Sustainable Aviation Fuels “ Options for Negative Emissions and High Carbon Efficiency. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
326	Biomass, Bioenergy, and Biofuels. , 2022, , 463-485.		1
328	Potential of CRISPR/Cas9-Based Genome Editing in the Fields of Industrial Biotechnology: Strategies, Challenges, and Applications. , 2022, , 667-690.		5
329	Using Biostimulants Containing Phytohormones to Recover Hail-Damaged Essential Oil Plants. , 0, , .		0
330	Technological and Sensory Aspects of Macaroni with Free or Encapsulated <i>Azolla</i> Fern Powder. <i>Foods</i> , 2022, 11, 707.	1.9	4

#	ARTICLE	IF	CITATIONS
331	Biosynthesis of (<i>R</i>)-perillyl alcohol by <i>Escherichia coli</i> expressing neryl pyrophosphate synthase. <i>Engineering in Life Sciences</i> , 2022, 22, 407-416.	2.0	3
332	Response mechanisms of <i>Saccharomyces cerevisiae</i> to the stress factors present in lignocellulose hydrolysate and strategies for constructing robust strains. , 2022, 15, 28.		24
333	Production of single cell oil by <i>Yarrowia lipolytica</i> JCM 2320 using detoxified desiccated coconut residue hydrolysate. <i>PeerJ</i> , 2022, 10, e12833.	0.9	7
334	Conversion of Cellulose and Lignin Residues into Transparent UV-Blocking Composite Films. <i>Molecules</i> , 2022, 27, 1637.	1.7	7
335	Recent advances in metabolic engineering of microorganisms for advancing lignocellulose-derived biofuels. <i>Bioengineered</i> , 2022, 13, 8135-8163.	1.4	20
336	Factors regulating cellulolytic gene expression in filamentous fungi: an overview. <i>Microbial Cell Factories</i> , 2022, 21, 44.	1.9	20
337	Metabolic engineered <i>E. coli</i> for the production of (R)-1,2-propanediol from biodiesel derived glycerol. <i>Biofuels</i> , 2022, 13, 965-974.	1.4	1
338	Fuel ethanol production from starchy grain and other crops: An overview on feedstocks, affecting factors, and technical advances. <i>Renewable Energy</i> , 2022, 188, 223-239.	4.3	16
339	Upgrading recalcitrant lignocellulosic biomass hydrolysis by immobilized cellulolytic enzyme-based nanobiocatalytic systems: a review. <i>Biomass Conversion and Biorefinery</i> , 2024, 14, 4485-4509.	2.9	11
340	Phylogenetic study to analyse the evolutionary relationship of taxonomically diverse Î±-amylases. <i>Rendiconti Lincei</i> , 0, , 1.	1.0	0
341	Bioconversion of food and lignocellulosic wastes employing sugar platform: A review of enzymatic hydrolysis and kinetics. <i>Bioresource Technology</i> , 2022, 352, 127083.	4.8	18
342	Bioethanol From Oil Palm Empty Fruit Bunch (OPEFB): a Review Pretreatment and Enzymatic Hydrolysis. , 0, , 1-15.		0
343	The history, state of the art and future prospects for oleaginous yeast research. <i>Microbial Cell Factories</i> , 2021, 20, 221.	1.9	60
344	Study of a green algae <i>Lobochlamys segnis</i> Strain-019 from peatland. <i>IOP Conference Series: Earth and Environmental Science</i> , 2021, 948, 012024.	0.2	0
346	Mucoromycota fungi as powerful cell factories for modern biorefinery. <i>Applied Microbiology and Biotechnology</i> , 2022, 106, 101-115.	1.7	23
347	Emerging Roles of SWEET Sugar Transporters in Plant Development and Abiotic Stress Responses. <i>Cells</i> , 2022, 11, 1303.	1.8	27
348	Use of heterogeneous catalysis in sustainable biofuel production. <i>ChemistrySelect</i> , 2022, ,	0.7	1
357	Computational approaches toward single-nucleotide polymorphism discovery and its applications in plant breeding. , 2022, , 513-536.		0

#	ARTICLE	IF	CITATIONS
358	Fractionation of sugar beet pulp polysaccharides into component sugars and pre-feasibility analysis for further valorisation. <i>Biomass Conversion and Biorefinery</i> , 2024, 14, 3575-3588.	2.9	3
359	Fecal microbiota and diets of muskox female adults and calves. <i>Ecology and Evolution</i> , 2022, 12, e8879.	0.8	3
360	Technoeconomic evaluation of recent process improvements in production of sugar and high-value lignin co-products via two-stage Cu-catalyzed alkaline-oxidative pretreatment. , 2022, 15, 45.		3
361	Alkyl polyglycosides enhanced the dark fermentation of excess sludge and plant waste to produce hydrogen: performance and mechanism. <i>Environmental Science and Pollution Research</i> , 2022, , 1.	2.7	0
362	Green biomass quality of perennial herbaceous crops depending on the species, type and level of fertilization. <i>Industrial Crops and Products</i> , 2022, 184, 115026.	2.5	2
363	Nano-strategies as Oral Drug Delivery Platforms for Treatment of Cancer: Challenges and Future Perspectives. <i>AAPS PharmSciTech</i> , 2022, 23, .	1.5	6
364	Whole-genome analysis of <i>Bacillus subtilis</i> G8 isolated from natto. <i>Biodiversitas</i> , 2022, 23, .	0.2	0
365	Machine learning and comparative genomics approaches for the discovery of xylose transporters in yeast. , 2022, 15, .		4
366	Double Yields and Negative Emissions? Resource, Climate and Cost Efficiencies in Biofuels With Carbon Capture, Storage and Utilization. <i>Frontiers in Energy Research</i> , 0, 10, .	1.2	5
367	Global leaf and root transcriptome in response to cadmium reveals tolerance mechanisms in <i>Arundo donax</i> L. <i>BMC Genomics</i> , 2022, 23, .	1.2	7
368	Characterization of novel euryhaline microalgal cultures from Punjab, India for bioactive compounds. <i>Archives of Microbiology</i> , 2022, 204, .	1.0	3
369	An insight into the principles of lignocellulosic biomass-based zero-waste biorefineries: a green leap towards imperishable energy-based future. <i>Biotechnology and Genetic Engineering Reviews</i> , 2022, 38, 288-338.	2.4	4
370	Revisiting algal lipids and cellular stress-causing strategies for ameliorating the productivity of suitable lipids of microalgae for biofuel applications. <i>Sustainable Energy and Fuels</i> , 2022, 6, 3907-3925.	2.5	1
372	Comparison of liquid hot water and saturated steam pretreatments to evaluate the enzymatic hydrolysis yield of elephant grass. <i>Biomass Conversion and Biorefinery</i> , 0, , .	2.9	1
373	Biochemical composition, antimicrobial and antifungal activities assessment of the fermented medicinal plants extract using lactic acid bacteria. <i>Archives of Microbiology</i> , 2022, 204, .	1.0	6
374	Engineering plant family TPS into cyanobacterial host for terpenoids production. <i>Plant Cell Reports</i> , 2022, 41, 1791-1803.	2.8	11
375	Metaproteomics reveals enzymatic strategies deployed by anaerobic microbiomes to maintain lignocellulose deconstruction at high solids. <i>Nature Communications</i> , 2022, 13, .	5.8	12
376	Industrial light at the end of the iron-containing (group III) alcohol dehydrogenase tunnel. <i>Biotechnology and Applied Biochemistry</i> , 2023, 70, 537-552.	1.4	4

#	ARTICLE	IF	CITATIONS
377	A cold-active cellulase produced from <i>Exiguobacterium sibiricum</i> K1 for the valorization of agro-residual resources. <i>Biomass Conversion and Biorefinery</i> , 2023, 13, 14777-14787.	2.9	4
378	Treatment of Stabilized Sanitary Landfill Leachate Using Electrocoagulation Process Equipped with Fe, Al, and Zn Electrodes and Assisted by Cationic Polyacrylamide Coagulant Aid. <i>Arabian Journal for Science and Engineering</i> , 2023, 48, 8495-8506.	1.7	4
379	Community succession and straw degradation characteristics using a microbial decomposer at low temperature. <i>PLoS ONE</i> , 2022, 17, e0270162.	1.1	2
380	Evaluation and Identification of Key Economic Bottlenecks for Cost-Effective Microbial Oil Production from Fruit and Vegetable Residues. <i>Fermentation</i> , 2022, 8, 334.	1.4	3
381	Bisphenol-A incite dose-dependent dissimilitude in the growth pattern, physiology, oxidative status, and metabolite profile of <i>Azolla filiculoides</i> . <i>Environmental Science and Pollution Research</i> , 2022, 29, 91325-91344.	2.7	4
382	Co-culture approach for effective biomass utilization and enhanced solvent production by <i>Clostridium acetobutylicum</i> DSM 792 and <i>Enterobacter hormaechei</i> subsp. <i>xiangfangensis</i> SW2. <i>Biomass Conversion and Biorefinery</i> , 0, , .	2.9	1
383	Pretreatment of agricultural lignocellulosic biomass for fermentable sugar: opportunities, challenges, and future trends. <i>Biomass Conversion and Biorefinery</i> , 2024, 14, 6155-6183.	2.9	12
384	An integrated olive stone biorefinery based on a two-step fractionation strategy. <i>Industrial Crops and Products</i> , 2022, 187, 115157.	2.5	11
385	Polyhydroxybutyrate biosynthesis from different waste materials, degradation, and analytic methods: a short review. <i>Polymer Bulletin</i> , 2023, 80, 5965-5997.	1.7	8
386	Integrated microalgae culture with food processing waste for wastewater remediation and enhanced biomass productivity. <i>Chinese Chemical Letters</i> , 2023, 34, 107721.	4.8	9
387	Valorization of Apple Pomace Via Single Cell Oil Production Using Oleaginous Yeast <i>Rhodospiridium toruloides</i> . <i>Waste and Biomass Valorization</i> , 0, , .	1.8	1
388	Improving isoprenol production via systematic CRISPRi screening in engineered <i>Escherichia coli</i> . <i>Green Chemistry</i> , 2022, 24, 6955-6964.	4.6	7
389	A short review of graphene in the microbial electrosynthesis of biochemicals from carbon dioxide. <i>RSC Advances</i> , 2022, 12, 22770-22782.	1.7	4
390	Fractionation Strategies. , 2022, , 7-33.		0
391	Enzymes in Functional Food Development. , 2022, , 217-252.		2
392	Microbial Fuel Cellsâ€”A Sustainable Approach to Clean Energy and Wastewater Remediation. , 2022, , 389-428.		0
393	Microbial Production of Flavors and Fragrances by <i>Yarrowia lipolytica</i> . , 2022, , 1-28.		0
394	2,3-Butanediol. <i>Green Energy and Technology</i> , 2022, , 91-110.	0.4	0

#	ARTICLE	IF	CITATIONS
395	An Overview on Organosolv Production of Bio-refinery Process Streams for the Production of Biobased Chemicals. <i>Clean Energy Production Technologies</i> , 2022, , 345-374.	0.3	0
396	Methods for Hemicellulose Deconstruction Aiming to Xylose Recovery: Recent Progress and Future Perspectives. , 2022, , 1-31.		0
397	Performance Enhancement Strategies of Anaerobic Digestion Technology: A Critical Assessment. <i>Environmental and Microbial Biotechnology</i> , 2022, , 167-189.	0.4	0
398	Isolation of <i>Saccharibacillus</i> WB17 strain from wheat bran phyllosphere and genomic insight into the cellulolytic and hemicellulolytic complex of the <i>Saccharibacillus</i> genus. <i>Brazilian Journal of Microbiology</i> , 0, , .	0.8	0
399	Lactic acid production from sugarcane field residue as renewable and economical bioresource by newly isolated <i>Pediococcus pentosaceus</i> HLV1. <i>Biomass Conversion and Biorefinery</i> , 2023, 13, 14927-14937.	2.9	2
400	Continuous Long-Term Anaerobic Co-digestion of Crude Glycerol and Domestic Sewage: Plug-Flow In-Series Reactor Performance and Microbiota Acclimatization. <i>Bioenergy Research</i> , 2023, 16, 1876-1888.	2.2	1
402	Prospects of advanced metagenomics and meta-omics in the investigation of phytomicrobiome to forecast beneficial and pathogenic response. <i>Molecular Biology Reports</i> , 2022, 49, 12165-12179.	1.0	13
403	Physical and Chemical Hydrolysis Methods for Breaking Down the Complex Waste Biomass to the Fermentable Sugars and Value-Added Products. <i>Clean Energy Production Technologies</i> , 2022, , 59-75.	0.3	0
404	Biofuel Production from Conventional Feedstocks: Challenges and Alternatives. <i>Clean Energy Production Technologies</i> , 2022, , 1-15.	0.3	0
405	Impact of Torrefaction and Alkali Pretreatment on Glucose Production From Wheat Straw. , 2022, 65, 1201-1209.		1
406	Biorefineries: An Integrated Approach for Sustainable Energy Production. <i>Clean Energy Production Technologies</i> , 2022, , 185-212.	0.3	3
408	Connecting Biology With Biotechnology. <i>Resonance - Journal of Science Education</i> , 2022, 27, 1741-1759.	0.2	0
409	Combination of simultaneous saccharification and fermentation of corn stover with consolidated bioprocessing of cassava starch enhances lipid production by the amylolytic oleaginous yeast <i>Lipomyces starkeyi</i> . <i>Bioresource Technology</i> , 2022, 364, 128096.	4.8	6
410	Renewable fuel options for aviation â€” A System-Wide comparison of Drop-In and non Drop-In fuel options. <i>Fuel</i> , 2023, 333, 126269.	3.4	15
411	Oral Delivery of Polymeric Nanoparticles for Solid Tumors. <i>Environmental Chemistry for A Sustainable World</i> , 2022, , 307-327.	0.3	0
412	Valorization of Fruit and Vegetable Waste: Yeast Fermentation. , 2022, , 315-342.		0
413	<i>Penicillium polonicum</i> a new isolate obtained from Cerrado soil as a source of carbohydrate-active enzymes produced in response to sugarcane bagasse. <i>3 Biotech</i> , 2022, 12, .	1.1	1
414	Lignocellulose-degrading fungi newly isolated from central Morocco are potent biocatalysts for olive pomace valorization. <i>Archives of Microbiology</i> , 2022, 204, .	1.0	1

#	ARTICLE	IF	CITATIONS
415	Transforming Lignin Biomass to Value: Interplay Between Ligninolytic Enzymes and Lignocellulose Depolymerization. <i>Bioenergy Research</i> , 2023, 16, 1246-1263.	2.2	5
416	The Use of Omics Technologies, Random Mutagenesis, and Genetic Transformation Techniques to Improve Algae for Biodiesel Industry. <i>Clean Energy Production Technologies</i> , 2023, , 43-80.	0.3	0
417	Cellulose-degrading enzymes: key players in biorefinery development. , 2023, 78, 1759-1772.		4
418	Extraction of Microalgal Bioactive Compounds Towards Functional Ingredients: A Biorefinery Approach with Prospects And Challenges. , 2022, , 131-183.		0
419	Understanding the impact of steam pretreatment severity on cellulose ultrastructure, recalcitrance, and hydrolyzability of Norway spruce. <i>Biomass Conversion and Biorefinery</i> , 0, , .	2.9	2
420	Isolation and functional characterization of novel isoprene synthase from <i>Artocarpus heterophyllus</i> (jackfruit). <i>3 Biotech</i> , 2023, 13, .	1.1	0
421	Whole-genome sequencing of biofilm-forming and chromium-resistant mangrove fungus <i>Aspergillus niger</i> BSC-1. <i>World Journal of Microbiology and Biotechnology</i> , 2023, 39, .	1.7	0
422	Detoxification of hemicellulose-enriched hydrolysate from sugarcane bagasse by activated carbon and macroporous adsorption resin. <i>Biomass Conversion and Biorefinery</i> , 0, , .	2.9	2
424	Simultaneous evaluation of composting experiments and metagenome analyses to illuminate the effect of <i>Streptomyces</i> spp. on organic matter degradation. <i>World Journal of Microbiology and Biotechnology</i> , 2023, 39, .	1.7	3
425	A critical assessment on scalable technologies using high solids loadings in lignocellulose biorefinery: challenges and solutions. <i>Critical Reviews in Biotechnology</i> , 2024, 44, 218-235.	5.1	8
426	Lignin Depolymerization for Its Valorization. <i>Bioenergy Research</i> , 2023, 16, 1264-1279.	2.2	3
428	Sources, Properties, and Modification of Lignocellulolytic Enzymes for Biomass Degradation. , 2023, , 1-39.		1
429	Qualitative improvement of bio-oil derived from hydrothermal liquefaction of liquid fertiliser drained <i>Kappaphycus alvarezii</i> . <i>Biomass Conversion and Biorefinery</i> , 0, , .	2.9	0
430	Metabolic profile and molecular characterization of endophytic bacteria isolated from <i>Pinus sylvestris</i> L. with growth-promoting effect on sunflower. <i>Environmental Science and Pollution Research</i> , 2023, 30, 40147-40161.	2.7	3
432	Production of Fatty Acids and Derivatives Using Cyanobacteria. <i>Advances in Biochemical Engineering/Biotechnology</i> , 2022, , .	0.6	0
433	Cell-Free Systems for Sustainable Production of Biofuels. , 2023, , 331-348.		0
434	Yeast Cell Factory for Production of Biomolecules. , 2023, , 211-251.		0
435	Molecular modification and biotechnological applications of microbial aspartic proteases. <i>Critical Reviews in Biotechnology</i> , 2024, 44, 388-413.	5.1	2

#	ARTICLE	IF	CITATIONS
436	Sustainable aviation fuels " Options for negative emissions and high carbon efficiency. International Journal of Greenhouse Gas Control, 2023, 125, 103886.	2.3	2
439	Taxonomic and enzymatic basis of the cellulolytic microbial consortium KKU-MC1 and its application in enhancing biomethane production. Scientific Reports, 2023, 13, .	1.6	13
440	Pre-treatment of lignocellulosic biomass: review of various physico-chemical and biological methods influencing the extent of biomass depolymerization. International Journal of Environmental Science and Technology, 2023, 20, 13895-13922.	1.8	7
441	Visible light-exposed lignin facilitates cellulose solubilization by lytic polysaccharide monoxygenases. Nature Communications, 2023, 14, .	5.8	12
442	Engineering cellulases for conversion of lignocellulosic biomass. Protein Engineering, Design and Selection, 2023, 36, .	1.0	5
443	Isolation and Characterization of Fractionated Cellulose from <i>Madhuca indica</i> . ChemistrySelect, 2023, 8, .	0.7	0
444	Potential of microalgae Bio-Coke as a sustainable solid fuel alternative to coal coke. Journal of Material Cycles and Waste Management, 2023, 25, 1699-1709.	1.6	3
445	Current Scenario and Future Prospects of Endophytic Microbes: Promising Candidates for Abiotic and Biotic Stress Management for Agricultural and Environmental Sustainability. Microbial Ecology, 2023, 86, 1455-1486.	1.4	20
449	Bioelectrochemical Systems for Advanced Treatment and Recovery of Persistent Metals in the Water System: Mechanism, Opportunities, and Challenges. Energy, Environment, and Sustainability, 2023, , 263-281.	0.6	0
455	Antimicrobial and Antioxidant Properties of Lignin and Its Composites. , 2023, , 106-129.		0
458	The key role of pretreatment for the one-step and multi-step conversions of European lignocellulosic materials into furan compounds. RSC Advances, 2023, 13, 21395-21420.	1.7	2
464	Influence of sphagnum peat extract on the biomass of novel algae <i>Ostravomonas trianguloculus</i> (volvocales, chlorophyceae) from peatland. AIP Conference Proceedings, 2023, , .	0.3	0