Anaerobic digestion of lignocellulosic biomass: Challeng

Bioresource Technology
178, 178-186
DOI: 10.1016/j.biortech.2014.09.103

Citation Report

#	Article	IF	Citations
1	Combined Biogas and Bioethanol Production: Opportunities and Challenges for Industrial Application. Energies, 2015, 8, 8121-8144.	1.6	76
2	Enhanced Methane Production from Anaerobic Co-Digestion of Wheat Straw and Herbal-Extraction Process Residues. BioResources, 2015, 10, .	0.5	5
3	A novel method for rapid determination of alpha-cellulose content in dissolving pulps by visible spectroscopy. Cellulose, 2015, 22, 2149-2156.	2.4	13
4	Anaerobic Digestion-Based Biorefinery for Bioenergy and Biobased Products. Industrial Biotechnology, 2015, 11, 103-112.	0.5	52
5	Investigation of effect of particle size and rumen fluid addition on specific methane yields of high lignocellulose grass silage. Bioresource Technology, 2015, 192, 266-271.	4.8	38
6	New opportunities for agricultural digestate valorization: current situation and perspectives. Energy and Environmental Science, 2015, 8, 2600-2621.	15.6	373
7	Potential biodiesel and biogas production from corncob by anaerobic fermentation and black soldier fly. Bioresource Technology, 2015, 194, 276-282.	4.8	100
8	Using feature objects aided strategy to evaluate the biomethane production of food waste and corn stalk anaerobic co-digestion. Bioresource Technology, 2015, 179, 611-614.	4.8	18
9	Fermentative biohydrogen production using hemicellulose fractions: Analytical validation for C5Âand C6-sugars, acids and inhibitors by HPLC. International Journal of Hydrogen Energy, 2015, 40, 13888-13900.	3.8	28
10	Development of Low-Carbon-Driven Bio-product Technology Using Lignocellulosic Substrates from Agriculture: Challenges and Perspectives. Current Sustainable/Renewable Energy Reports, 2015, 2, 145-154.	1.2	16
11	Semi-continuous anaerobic co-digestion of sugar beet byproduct and pig manure: Effect of the organic loading rate (OLR) on process performance. Bioresource Technology, 2015, 194, 283-290.	4.8	92
12	Comparison of Reactor Configurations for Biogas Production from Rapeseed Straw. BioResources, 2016, 11, .	0.5	3
13	Biohydrogen production by anaerobic digestion of corn cob and stem of faba bean hydrolysates. , 2016, , .		1
14	Biochemical production of bioenergy from agricultural crops and residue in Iran. Waste Management, 2016, 52, 375-394.	3.7	81
15	Effect of substrate to inoculum ratio and inoculum type on the biochemical methane potential of solid agroindustrial waste. Journal of Environmental Chemical Engineering, 2016, 4, 3217-3229.	3.3	92
16	Evaluation of anaerobic degradation, biogas and digestate production of cereal silages using nylon-bags. Bioresource Technology, 2016, 209, 40-49.	4.8	23
17	Effect of different struvite crystallization methods on gaseous emission and the comprehensive comparison during the composting. Bioresource Technology, 2016, 217, 219-226.	4.8	87
18	Biogas and bioethanol production from pinewood pre-treated with steam explosion and N-methylmorpholine-N-oxide (NMMO): A comparative life cycle assessment approach. Energy, 2016, 114, 935-950.	4.5	44

#	Article	IF	Citations
19	Study on the bio-methane yield and microbial community structure in enzyme enhanced anaerobic co-digestion of cow manure and corn straw. Bioresource Technology, 2016, 219, 150-157.	4.8	51
20	Anaerobes in Biotechnology. Advances in Biochemical Engineering/Biotechnology, 2016, , .	0.6	9
21	Biogas Production: Microbiology and Technology. Advances in Biochemical Engineering/Biotechnology, 2016, 156, 195-234.	0.6	45
22	Horse manure as feedstock for anaerobic digestion. Waste Management, 2016, 56, 506-518.	3.7	41
23	The microbial community structure in industrial biogas plants influences the degradation rate of straw and cellulose in batch tests. Biotechnology for Biofuels, 2016, 9, 128.	6.2	125
24	Mining of hemicellulose and lignin degrading genes from differentially enriched methane producing microbial community. Bioresource Technology, 2016, 216, 923-930.	4.8	54
25	Batch anaerobic digestion of synthetic military base food waste and cardboard mixtures. Bioresource Technology, 2016, 216, 894-903.	4.8	26
26	Microalgae-bacteria aggregates: effect of the hydraulic retention time on the municipal wastewater treatment, biomass settleability and methane potential. Journal of Chemical Technology and Biotechnology, 2016, 91, 2862-2870.	1.6	93
27	Protocol for Start-Up and Operation of CSTR Biogas Processes. Springer Protocols, 2016, , 171-200.	0.1	17
28	Solid-state anaerobic digestion of lignocellulosic biomass: Recent progress and perspectives. Bioresource Technology, 2016, 205, 239-249.	4.8	204
29	A review of olive mill solid wastes to energy utilization techniques. Waste Management, 2016, 49, 346-363.	3.7	112
30	Evaluation of methane generation and process stability from anaerobic co-digestion of sugar beet by-product and cow manure. Journal of Bioscience and Bioengineering, 2016, 121, 566-572.	1.1	27
31	Anaerobic co-digestion of catering waste with partially pretreated lignocellulosic crop residues. Journal of Cleaner Production, 2016, 117, 56-63.	4.6	41
32	Anaerobic digestion of fines from recovered paper processing â€“ Influence of fiber source, lignin and ash content on biogas potential. Bioresource Technology, 2016, 200, 506-513.	4.8	22
33	Anaerobic biorefinery: Current status, challenges, and opportunities. Bioresource Technology, 2016, 215, 304-313.	4.8	166
34	Biogas from anaerobic digestion processes: Research updates. Renewable Energy, 2016, 98, 108-119.	4.3	229
35	Pulp and paper mill sludge management practices: What are the challenges to assess the impacts on greenhouse gas emissions?. Resources, Conservation and Recycling, 2016, 108, 107-133.	5.3	107
36	Fungal pretreatment of willow sawdust and its combination with alkaline treatment for enhancing biogas production. Journal of Environmental Management, 2017, 203, 704-713.	3.8	91

#	Article	IF	Citations
37	The water footprint of second-generation bioenergy: A comparison of biomass feedstocks and conversion techniques. Journal of Cleaner Production, 2017, 148, 571-582.	4.6	96
38	Mining the global diversity for bioenergy traits of barley straw: genomewide association study under varying plant water status. GCB Bioenergy, 2017, 9, 1356-1369.	2.5	10
39	Enhanced volatile fatty acids production during anaerobic digestion of lignocellulosic biomass via micro-oxygenation. Bioresource Technology, 2017, 237, 139-145.	4.8	61
40	Treatment technologies for urban solid biowaste to create value products: a review with focus on low- and middle-income settings. Reviews in Environmental Science and Biotechnology, 2017, 16, 81-130.	3.9	189
41	Effects of Feedstock Sources on Inoculant Acclimatization: Start-up Strategies and Reactor Performance. Applied Biochemistry and Biotechnology, 2017, 183, 729-743.	1.4	6
42	Mechanical pretreatment at harvesting increases the bioenergy output from marginal land grasses. Renewable Energy, 2017, 111, 914-921.	4.3	44
43	Assessment of hydrothermal pretreatment of various lignocellulosic biomass with CO 2 catalyst for enhanced methane and hydrogen production. Water Research, 2017, 120, 32-42.	5.3	79
44	A review of anaerobic digestion of paper and paper board waste. Reviews in Environmental Science and Biotechnology, 2017, 16, 569-590.	3.9	19
45	Bioaugmentation with hydrolytic microbes to improve the anaerobic biodegradability of lignocellulosic agricultural residues. Bioresource Technology, 2017, 234, 350-359.	4.8	91
46	Anaerobic Digestion. , 2017, , 1-14.		1
47	Effect of bioaugmentation by cellulolytic bacteria enriched from sheep rumen on methane production from wheat straw. Anaerobe, 2017, 46, 122-130.	1.0	69
48	Production efficiency of Swedish farm-scale biogas plants. Biomass and Bioenergy, 2017, 97, 27-37.	2.9	49
49	Minimizing mixing intensity to improve the performance of rice straw anaerobic digestion via enhanced development of microbe-substrate aggregates. Bioresource Technology, 2017, 245, 590-597.	4.8	38
50	Methane and hydrogen production from anaerobic digestion of soluble fraction obtained by sugarcane bagasse ozonation. Industrial Crops and Products, 2017, 109, 288-299.	2.5	46
51	Anaerobic co-digestion of alkali-pretreated submerged macrophytes and acidified food waste for reduction of neutralizing agents. International Biodeterioration and Biodegradation, 2017, 125, 208-213.	1.9	13
52	Biological strategies for enhanced hydrolysis of lignocellulosic biomass during anaerobic digestion: Current status and future perspectives. Bioresource Technology, 2017, 245, 1245-1257.	4.8	206
53	Efficient continuous biogas production using lignocellulosic hydrolysates as substrate: A semi-pilot scale long-term study. Energy Conversion and Management, 2017, 151, 53-62.	4.4	19
54	Evaluation of Different Pretreatment Processes of Lignocellulosic Biomass for Enhanced Biomethane Production. Energy & Fuels, 2017, 31, 10335-10347.	2.5	66

#	Article	IF	Citations
55	Pretreatment of agricultural biomass for anaerobic digestion: Current state and challenges. Bioresource Technology, 2017, 245, 1194-1205.	4.8	261
56	Co-ensiling of straw with sugar beet leaves increases the methane yield from straw. Bioresource Technology, 2017, 245, 106-115.	4.8	57
57	Adaptation of continuous biogas reactors operating under wet fermentation conditions to dry conditions with corn stover as substrate. Anaerobe, 2017, 46, 78-85.	1.0	17
58	Optimization of Aqueous Ammonia Soaking of manure fibers by Response Surface Methodology for unlocking the methane potential of swine manure. Bioresource Technology, 2017, 244, 509-516.	4.8	13
59	Application of next-generation sequencing methods for microbial monitoring of anaerobic digestion of lignocellulosic biomass. Applied Microbiology and Biotechnology, 2017, 101, 6849-6864.	1.7	32
60	Biogas production from brewery spent grain as a mono-substrate in a two-stage process composed of solid-state anaerobic digestion and granular biomass reactors. Journal of Cleaner Production, 2017, 166, 519-529.	4.6	66
61	Increased methane production in cyanobacteria and methanogenic microbe co-cultures. Bioresource Technology, 2017, 243, 686-692.	4.8	13
62	Enhanced biomethane production rate and yield from lignocellulosic ensiled forage ley by in situ anaerobic digestion treatment with endogenous cellulolytic enzymes. Biotechnology for Biofuels, 2017, 10, 129.	6.2	29
63	An efficient method to improve the production of methane from anaerobic digestion of waste activated sludge. Water Science and Technology, 2017, 76, 2075-2084.	1.2	6
64	The Effect of a Short Term Aerobic Pretreatment Step on the Anaerobic Co-digestion of the Organic Fraction of Municipal Solid Wastes: Liquid Extract Addition Versus Solid Phase Addition. Waste and Biomass Valorization, 2017, 8, 1793-1801.	1.8	9
65	Thermophilic solid-state anaerobic digestion of solid waste residues from palm oil mill industry for biogas production. Industrial Crops and Products, 2017, 95, 502-511.	2.5	38
66	Pilot-scale investigation on the treatment of cellulosic ethanol biorefinery wastewater. Chemical Engineering Journal, 2017, 309, 409-416.	6.6	18
67	Biohydrogen Production Potential of Different Biomass Sources. , 2017, , 11-48.		18
68	Agro-Industrial Residues and Microbial Enzymes. , 2017, , 475-511.		27
69	Effect of structural carbohydrates and lignin content on the anaerobic digestion of paper and paper board materials by anaerobic granular sludge. Biotechnology and Bioengineering, 2017, 114, 951-960.	1.7	23
70	Effect of micro-aeration and inoculum type on the biodegradation of lignocellulosic substrate. Bioresource Technology, 2017, 225, 246-253.	4.8	47
71	An assessment of duckweed as a potential lignocellulosic feedstock for biogas production. International Biodeterioration and Biodegradation, 2017, 119, 253-259.	1.9	54
72	Linking microbial community structure and product spectrum of rice straw fermentation with undefined mixed culture. IOP Conference Series: Earth and Environmental Science, 2017, 100, 012088.	0.2	0

#	Article	IF	Citations
73	Characterization of the Microbial Communities in Rumen Fluid Inoculated Reactors for the Biogas Digestion of Wheat Straw. Sustainability, 2017, 9, 243.	1.6	21
74	Integrated Methane and Ethanol Production from Livestock Manure and Soybean Straw. BioResources, 2017, 12, .	0.5	9
75	Photocatalytic conversion of biomass into valuable products: a meaningful approach?. Green Chemistry, 2018, 20, 1169-1192.	4.6	181
76	The Relationship Between Bioreactor Design and Feedstock for Optimal Biogas Production. Green Energy and Technology, 2018, , 163-197.	0.4	3
77	Combined bioaugmentation with anaerobic ruminal fungi and fermentative bacteria to enhance biogas production from wheat straw and mushroom spent straw. Bioresource Technology, 2018, 260, 364-373.	4.8	57
78	Evaluation of biogas and syngas as energy vectors for heat and power generation using lignocellulosic biomass as raw material. Electronic Journal of Biotechnology, 2018, 33, 52-62.	1.2	121
79	Increasing the loading rate of continuous stirred tank reactor for coffee husk and pulp: Effect of trace elements supplement. Engineering in Life Sciences, 2018, 18, 551-561.	2.0	8
80	Laboratory Simulation of an Agricultural Biogas Plant Startâ€up. Chemical Engineering and Technology, 2018, 41, 711-716.	0.9	12
81	A new screened microbial consortium OEM2 for lignocellulosic biomass deconstruction and chlorophenols detoxification. Journal of Hazardous Materials, 2018, 347, 341-348.	6.5	45
83	Effect of illumination intensity on photosynthesis assisted anaerobic digestion of cattle manure leachate for enhanced biogas production. Chemical Engineering Journal, 2018, 338, 8-14.	6.6	7
84	QTL Mapping of Wood FT-IR Chemotypes Shows Promise for Improving Biofuel Potential in Short Rotation Coppice Willow (Salix spp.). Bioenergy Research, 2018, 11, 351-363.	2.2	15
85	Anaerobic Digestion of Lignocellulosic Materials Using Ethanol-Organosolv Pretreatment. Environmental Engineering Science, 2018, 35, 953-960.	0.8	20
86	Comparison of Different Pretreatments of Rice Straw Substrate to Improve Biogas Production. Waste and Biomass Valorization, 2018, 9, 1503-1512.	1.8	46
87	Co-digestion of food waste and chemically enhanced primary treated sludge in a continuous stirred tank reactor. Biomass and Bioenergy, 2018, 111, 232-240.	2.9	60
88	Biogas digestates based on lignin-rich feedstock â€“ potential as fertilizer and soil amendment. Archives of Agronomy and Soil Science, 2018, 64, 347-359.	1.3	21
89	Effect of harvesting age and performance evaluation on biogasification from Napier grass in separated stages process. KSCE Journal of Civil Engineering, 2018, 22, 40-45.	0.9	11
90	Can hydrothermal pretreatment improve anaerobic digestion for biogas from lignocellulosic biomass?. Bioresource Technology, 2018, 249, 117-124.	4.8	131
91	Study on improving anaerobic co-digestion of cow manure and corn straw by fruit and vegetable waste: Methane production and microbial community in CSTR process. Bioresource Technology, 2018, 249, 290-297.	4.8	67

#	Article	IF	Citations
92	Bioaugmentation with Clostridium thermocellum to enhance the anaerobic biodegradation of lignocellulosic agricultural residues. Bioresource Technology, 2018, 249, 620-625.	4.8	54
93	Anaerobic digestion for bioenergy production: Global status, environmental and techno-economic implications, and government policies. Bioresource Technology, 2018, 247, 1015-1026.	4.8	216
94	A critical review on the interaction of substrate nutrient balance and microbial community structure and function in anaerobic co-digestion. Bioresource Technology, 2018, 247, 1119-1127.	4.8	201
95	Microbial community response and SDS-PAGE reveal possible mechanism of waste activated sludge acidification enhanced by microaeration coupled thermophilic pretreatment. Process Biochemistry, 2018, 64, 1-8.	1.8	13
96	Vermicomposting and anaerobic digestion â€" viable alternative options for terrestrial weed management â€" A review. Biotechnology Reports (Amsterdam, Netherlands), 2018, 17, 70-76.	2.1	30
97	Challenges and opportunities of lignocellulosic biomass for anaerobic digestion. Resources, Conservation and Recycling, 2018, 130, 164-174.	5.3	290
98	Influence of different thermal pretreatments and inoculum selection on the biomethanation of sugarcane bagasse by solid-state anaerobic digestion: A kinetic analysis. Industrial Crops and Products, 2018, 111, 684-693.	2.5	63
99	Root system characterization and water requirements of ten perennial herbaceous species for biomass production managed with high nitrogen and water inputs. Agricultural Water Management, 2018, 196, 37-47.	2.4	9
100	A Value Chain Analysis for Bioenergy Production from Biomass and Biodegradable Waste: A Case Study in Northern Norway. , 2018, , .		2
101	Enhancement of methane production by addition of Clostridium thermocellum in the anaerobic digestion of switchgrass. Journal of Renewable and Sustainable Energy, 2018, 10, .	0.8	5
102	Enhancing Anaerobic Digestion: The Effect of Carbon Conductive Materials. Journal of Carbon Research, 2018, 4, 59.	1.4	41
103	Resource Recovery Potential From Lignocellulosic Feedstock Upon Lysis With Ionic Liquids. Frontiers in Bioengineering and Biotechnology, 2018, 6, 119.	2.0	20
104	Screening of Phytophagous and Xylophagous Insects Guts Microbiota Abilities to Degrade Lignocellulose in Bioreactor. Frontiers in Microbiology, 2018, 9, 2222.	1.5	17
105	Microbial pretreatment of lignocellulosic biomass for enhanced biomethanation and waste management. 3 Biotech, 2018, 8, 458.	1.1	38
106	Effect of pretreatment solutions and conditions on decomposition and anaerobic digestion of lignocellulosic biomass in rice straw. Biochemical Engineering Journal, 2018, 140, 108-114.	1.8	44
107	Bio-H2 production using de-oiled cake as cheap nitrogen source and subsequent electricity generation by hybrid system. Bioresource Technology Reports, 2018, 4, 1-8.	1.5	6
108	Biological Pretreatment Strategies for Second-Generation Lignocellulosic Resources to Enhance Biogas Production. Energies, 2018, 11, 1797.	1.6	169
109	Development and characterization of stable anaerobic thermophilic methanogenic microbiomes fermenting switchgrass at decreasing residence times. Biotechnology for Biofuels, 2018, 11, 243.	6.2	37

#	Article	IF	Citations
110	Commercial feasibility of an integrated closed-loop ethanol-feedlot-biodigester system based on triticale feedstock in Canadian Prairies. Renewable and Sustainable Energy Reviews, 2018, 97, 401-413.	8.2	3
111	The Potential for Biogas Production from Agriculture Wastes in Mexico. , 2018, , .		4
112	Nutrient recovery technologies integrated with energy recovery by waste biomass anaerobic digestion. Bioresource Technology, 2018, 269, 520-531.	4.8	148
113	Unravelling (maize silage) digestate features throughout a full-scale plant: A spectroscopic and thermal approach. Journal of Cleaner Production, 2018, 193, 372-378.	4.6	26
114	Remediation of sedimented fiber originating from pulp and paper industry: Laboratory scale anaerobic reactor studies and ideas of scaling up. Water Research, 2018, 143, 209-217.	5.3	12
115	1.19 Biomass Energy. , 2018, , 770-794.		18
116	Pretreatment with rumen fluid improves methane production in the anaerobic digestion of paper sludge. Waste Management, 2018, 78, 379-384.	3.7	37
117	Bio-Hydrogen Production From Buffalo Waste With Rumen Inoculum and Metagenomic Characterization of Bacterial and Archaeal Community. Frontiers in Sustainable Food Systems, 0, 2, .	1.8	12
118	Food waste enhanced anaerobic digestion of biologically pretreated yard waste: Analysis of cellulose crystallinity and microbial communities. Waste Management, 2018, 79, 109-119.	3.7	41
119	Advanced Pretreatment Strategies for Bioenergy Production from Biomass and Biowaste. , 2018, , 1-19.		4
120	Mechanical and Alkaline Hydrothermal Treated Corn Residue Conversion in to Bioenergy and Biofertilizer: A Resource Recovery Concept. Energies, 2018, 11, 516.	1.6	7
121	Evaluation of biomethane potential from by-products and agricultural residues co-digestion in southern Italy. Journal of Environmental Management, 2018, 223, 834-840.	3.8	34
122	Genome-centric metatranscriptomes and ecological roles of the active microbial populations during cellulosic biomass anaerobic digestion. Biotechnology for Biofuels, 2018, 11, 117.	6.2	29
123	Escherichia coli wild type and hydrogenase mutant cells growth and hydrogen production upon xylose and glycerol co-fermentation in media with different buffer capacities. International Journal of Hydrogen Energy, 2018, 43, 15870-15879.	3.8	15
124	Effect of combined chemical and thermal pretreatments on biogas production from lignocellulosic biomasses. Industrial Crops and Products, 2018, 124, 735-746.	2.5	44
125	Anaerobic digestion of crop residues: Technological developments and environmental impact in the Indian context. Biocatalysis and Agricultural Biotechnology, 2018, 16, 513-528.	1.5	24
126	Green, Blue and Grey Bioenergy Water Footprints, a Comparison of Feedstocks for Bioenergy Supply in 2040. Environmental Processes, 2018, 5, 167-180.	1.7	23
127	Rumen fluid fermentation for enhancement of hydrolysis and acidification of grass clipping. Journal of Environmental Management, 2018, 220, 142-148.	3.8	45

#	Article	IF	Citations
128	A sequential process of anaerobic solid-state fermentation followed by dark fermentation for bio-hydrogen production from Chlorella sp.. International Journal of Hydrogen Energy, 2019, 44, 3306-3316.	3.8	40
129	A comprehensive review of anaerobic digestion of organic solid wastes in relation to microbial community and enhancement process. Journal of the Science of Food and Agriculture, 2019, 99, 507-516.	1.7	24
130	Lignin degradation under anaerobic digestion: Influence of lignin modifications -A review. Biomass and Bioenergy, 2019, 128, 105325.	2.9	122
131	Pretreatment of Lignocellulosic Biomass Using Vortex-Based Devices for Cavitation: Influence on Biomethane Potential. Industrial & Engineering Chemistry Research, 2019, 58, 15975-15988.	1.8	34
132	Characterization of microbial functional and genetic diversity as a novel strategy of biowaste ecotoxicological evaluation. International Journal of Environmental Science and Technology, 2019, 16, 4261-4274.	1.8	11
133	A simplified model to simulate bioaugmented anaerobic digestion of lignocellulosic biomass: Biogas production efficiency related to microbiological data. Science of the Total Environment, 2019, 691, 885-895.	3.9	25
134	Characterization of water hyacinth (E. crassipes) from Lake Victoria and ruminal slaughterhouse waste as co-substrates in biogas production. SN Applied Sciences, 2019, 1, 1.	1.5	20
135	Biogas Production by Anaerobic Digestion: Status and Perspectives. , 2019, , 763-778.		12
136	Enhancing the co-digestion efficiency of sewage sludge and cheese whey using brewery spent grain as an additional substrate. Bioresource Technology, 2019, 291, 121863.	4.8	32
137	Energy efficiency improvement of thermal hydrolysis and anaerobic digestion of Posidonia oceanica residues. Applied Energy, 2019, 252, 113457.	5.1	14
138	Energy Crop at Heavy Metal-Contaminated Arable Land as an Alternative for Food and Feed Production: Biomass Quantity and Quality. , 2019, , 1-21.		10
139	Towards effective management of digester dysfunction during anaerobic treatment processes. Renewable and Sustainable Energy Reviews, 2019, 116, 109424.	8.2	20
140	Full-scale anaerobic reactor samples would be more suitable than lab-scale anaerobic reactor and natural samples to inoculate the wheat straw batch anaerobic digesters. Bioresource Technology, 2019, 293, 122040.	4.8	10
141	Biological pretreatment with Trametes versicolor to enhance methane production from lignocellulosic biomass: A metagenomic approach. Industrial Crops and Products, 2019, 140, 111659.	2.5	54
142	Intensifying the biogas production from food waste using ultrasound: Understanding into effect of operating parameters. Ultrasonics Sonochemistry, 2019, 59, 104755.	3.8	32
143	Improvement of Anaerobic Digestion of Lignocellulosic Biomass by Hydrothermal Pretreatment. Applied Sciences (Switzerland), 2019, 9, 3853.	1.3	46
144	Evaluation of Posidonia oceanica residues as feedstock for anaerobic digestion. Bioresource Technology Reports, 2019, 8, 100317.	1.5	1
145	Limiting factors for biogas production from cow manure: energo-environmental approach. Engineering Applications of Computational Fluid Mechanics, 2019, 13, 954-966.	1.5	17

#	Article	IF	Citations
146	Intermittent micro-aeration: New strategy to control volatile fatty acid accumulation in high organic loading anaerobic digestion. Water Research, 2019, 166, 115080.	5.3	122
147	Economic and environmental impacts of an integrated-state anaerobic digestion system to produce compressed natural gas from organic wastes and energy crops. Renewable and Sustainable Energy Reviews, 2019, 115, 109354.	8.2	24
148	Sustainable bio-economy that delivers the environmentâ€“foodâ€“energyâ€“water nexus objectives: The current status in Malaysia. Food and Bioproducts Processing, 2019, 118, 167-186.	1.8	23
149	Effect of substrate ratio on biogas yield for anaerobic co-digestion of fruit vegetable waste & sugarcane bagasse. Environmental Technology and Innovation, 2019, 13, 331-339.	3.0	38
150	Plant Molecular Farming â€“ Integration and Exploitation of Side Streams to Achieve Sustainable Biomanufacturing. Frontiers in Plant Science, 2018, 9, 1893.	1.7	94
151	Cellulose solvent-based pretreatment for enhanced second-generation biofuel production: a review. Sustainable Energy and Fuels, 2019, 3, 11-62.	2.5	164
152	Enhancement of Methane Production in Thermophilic Anaerobic Co-Digestion of Exhausted Sugar Beet Pulp and Pig Manure. Applied Sciences (Switzerland), 2019, 9, 1791.	1.3	19
153	Hydrogen and methane production potential of agave bagasse enzymatic hydrolysates and comparative technoeconomic feasibility implications. International Journal of Hydrogen Energy, 2019, 44, 17792-17801.	3.8	25
154	Methane yield from SS-AD: Experiences to learn by a full spectrum analysis at laboratory-, pilot- and full-scale. Biomass and Bioenergy, 2019, 127, 105270.	2.9	14
155	Effect of Substrate to Inoculum Ratio on Biogas Production and Microbial Community During Hemi-Solid-State Batch Anaerobic Co-digestion of Rape Straw and Dairy Manure. Applied Biochemistry and Biotechnology, 2019, 189, 884-902.	1.4	39
156	A novel strategy for efficient anaerobic co-digestion based on the pretreatment of corn stover with fresh vinegar residue. Bioresource Technology, 2019, 288, 121412.	4.8	15
157	A review on enhanced biogas production from anaerobic digestion of lignocellulosic biomass by different enhancement techniques. Process Biochemistry, 2019, 84, 81-90.	1.8	171
158	Early warning indicators for mesophilic anaerobic digestion of corn stalk: a combined experimental and simulation approach. Biotechnology for Biofuels, 2019, 12, 106.	6.2	35
159	Biofuel production from straw hydrolysates: current achievements and perspectives. Applied Microbiology and Biotechnology, 2019, 103, 5105-5116.	1.7	112
160	A critical review on operating parameters and strategies to improve the biogas yield from anaerobic digestion of organic fraction of municipal solid waste. Renewable Energy, 2019, 143, 779-797.	4.3	198
161	The Effects of Aluminium- and Ferric-Based Chemical Phosphorus Removal on Activated Sludge Digestibility and Dewaterability. Processes, 2019, 7, 228.	1.3	8
162	Enhancement of high solid anaerobic co-digestion of swine manure with rice straw pretreated by microwave and alkaline. Bioresource Technology Reports, 2019, 7, 100208.	1.5	15
163	Simple yet effective: Microbial and biotechnological benefits of rumen liquid addition to lignocellulose-degrading biogas plants. Journal of Biotechnology, 2019, 300, 1-10.	1.9	29

#	Article	IF	Citations
164	Energy production potential of phytoremediation plant biomass: Helianthus annuus and Silybum marianum. Industrial Crops and Products, 2019, 135, 206-216.	2.5	28
165	Application of rumen and anaerobic sludge microbes for bio harvesting from lignocellulosic biomass. Chemosphere, 2019, 228, 702-708.	4.2	64
166	Effect of inoculum types and microbial community on thermophilic and mesophilic solid-state anaerobic digestion of empty fruit bunches for biogas production. Industrial Crops and Products, 2019, 133, 193-202.	2.5	30
167	Predicting the Biomethanation Potential of Some Lignocellulosic Feedstocks using Linear Regression Models: The Effect of Pretreatment. KSCE Journal of Civil Engineering, 2019, 23, 1501-1512.	0.9	5
168	Recent Updates on the Use of Agro-Food Waste for Biogas Production. Applied Sciences (Switzerland), 2019, 9, 1217.	1.3	71
169	Preservation of rumen fluid for the pretreatment of waste paper to improve methane production. Waste Management, 2019, 87, 672-678.	3.7	17
170	Closing ammonia loop in efficient biogas production: Recycling ammonia pretreatment of wheat straw. Biosystems Engineering, 2019, 180, 182-190.	1.9	24
171	Anaerobic digestion to reduce biomass and remove arsenic from As-hyperaccumulator Pteris vittata. Environmental Pollution, 2019, 250, 23-28.	3.7	22
172	Anaerobic digestion of wheat straw and rape oil cake in a two-stage solid-state system. Renewable Energy, 2019, 141, 359-367.	4.3	9
173	Application of torrefaction for recycling bio-waste formed during anaerobic digestion. Fuel, 2019, 243, 230-239.	3.4	22
174	A review of crop straw pretreatment methods for biogas production by anaerobic digestion in China. Renewable and Sustainable Energy Reviews, 2019, 107, 51-58.	8.2	218
175	The potential of biotechnology for mitigation of greenhouse gasses effects: solutions, challenges, and future perspectives. Arabian Journal of Geosciences, 2019, 12, 1.	0.6	7
176	Anaerobic digestion of various feedstocks for second-generation biofuel production. , 2019, , 157-185.		11
177	Simultaneous biogas and biogas slurry production from co-digestion of pig manure and corn straw: Performance optimization and microbial community shift. Bioresource Technology, 2019, 282, 37-47.	4.8	99
178	New trends in physicochemical characterization of solid lignocellulosic waste in anaerobic digestion. Fuel, 2019, 245, 240-246.	3.4	30
179	Small scale biogas production with animal excrement and agricultural residues. Industrial Crops and Products, 2019, 131, 307-314.	2.5	29
180	The comparison of single and double cut harvests on biomass yield, quality and biogas production of Miscanthus Ã— giganteus. Plant, Soil and Environment, 2019, 65, 369-376.	1.0	5
181	A Review on Anaerobic Digestion of Lignocellulosic Wastes: Pretreatments and Operational Conditions. Applied Sciences (Switzerland), 2019, 9, 4655.	1.3	43

#	Article	IF	Citations
182	Lignocellulosic Biorefineries: Adding compost improves the biogenic catalysis of wheat straw. , 2019, , .		0
183	Pretreatment of Lignocellulosic Biomass with Cattle Rumen Fluid for Methane Production: Fate of Added Rumen Microbes and Indigenous Microbes of Methane Seed Sludge. Microbes and Environments, 2019, 34, 421-428.	0.7	17
184	Evaluation of biogas production from co-digestion of pig dung, water hyacinth and poultry droppings. Waste Disposal & Sustainable Energy, 2019, 1, 271-277.	1.1	9
185	Untargeted Metabolite Profiling for Screening Bioactive Compounds in Digestate of Manure under Anaerobic Digestion. Water (Switzerland), 2019, 11, 2420.	1.2	16
186	Energy recovery from industrial crop wastes by dry anaerobic digestion: A review. Industrial Crops and Products, 2019, 129, 673-687.	2.5	69
187	Hydrothermal pretreatment of source separated organics for enhanced solubilization and biomethane recovery. Bioresource Technology, 2019, 274, 502-511.	4.8	23
188	Synergistic effect of alkaline pretreatment and magnetite nanoparticle application on biogas production from rice straw. Bioresource Technology, 2019, 275, 288-296.	4.8	83
189	Thermodynamic and thermoeconomic analysis of basic and modified power generation systems fueled by biogas. Energy Conversion and Management, 2019, 181, 463-475.	4.4	86
190	Catalytic dehydration of hexose sugars to 5â€hydroxymethylfural. Biofuels, Bioproducts and Biorefining, 2019, 13, 153-173.	1.9	39
191	Potential benefits of near critical and supercritical pre-treatment of lignocellulosic biomass towards anaerobic digestion. Waste Management and Research, 2019, 37, 74-82.	2.2	26
192	Improving the Anaerobic Digestion of Switchgrass via Cofermentation of Rumen Microorganisms (Rumen Bacteria, Protozoa, and Fungi) and a Biogas Slurry. Energy & Fuels, 2019, 33, 1185-1195.	2.5	17
193	Improving Biogas Production. Biofuel and Biorefinery Technologies, 2019, , .	0.1	10
194	Fast anaerobic digestion of complex substrates via immobilized biofilms in a novel compartmentalized reactor design. Biochemical Engineering Journal, 2019, 143, 224-229.	1.8	3
195	Effects of outdoor dry bale storage conditions on corn stover and the subsequent biogas production from anaerobic digestion. Renewable Energy, 2019, 134, 276-283.	4.3	12
196	Enzymatic pretreatment of lignocellulosic biomass for enhanced biomethane production-A review. Journal of Environmental Management, 2019, 233, 774-784.	3.8	208
197	Effect of Individual Components of Lignocellulosic Biomass on Methane Production and Methanogen Community Structure. Waste and Biomass Valorization, 2020, 11, 1421-1433.	1.8	10
198	Thermophilic solid state anaerobic digestion of switchgrass for liquid digestate reuse and organic fertilizer production. Renewable Agriculture and Food Systems, 2020, 35, 503-512.	0.8	3
199	Co-metabolic substrates enhanced biological nitrogen removal from cellulosic ethanol biorefinery wastewater using aerobic granular sludges. Environmental Technology (United Kingdom), 2020, 41, 389-399.	1.2	5

#	Article	IF	Citations
200	Impact of salinity on anaerobic microbial community structure in high organic loading purified terephthalic acid wastewater treatment system. Journal of Hazardous Materials, 2020, 383, 121132.	6.5	32
201	Optimizing Methane Production from Co-digestion of Cassava Biomass and Winery Solid Waste Using Response Surface Methodology. Waste and Biomass Valorization, 2020, 11, 4799-4808.	1.8	10
202	Anaerobic digestion of Crassulacean Acid Metabolism plants: Exploring alternative feedstocks for semi-arid lands. Bioresource Technology, 2020, 297, 122262.	4.8	15
203	Enzymatic reactions in the production of biomethane from organic waste. Enzyme and Microbial Technology, 2020, 132, 109410.	1.6	15
204	Waste Management in MENA Regions. Springer Water, 2020, , .	0.2	9
205	Toward Three Râ€™s Agricultural Waste in MENA: Reduce, Reuse, and Recycle. Springer Water, 2020, , 337-353.	0.2	7
206	Effects of fermentative and non-fermentative additives on silage quality and anaerobic digestion performance of Pennisetum purpureum. Bioresource Technology, 2020, 297, 122425.	4.8	27
207	Anaerobic digestion of chicken manure with sawdust and barley straw pre-treated by fungi. Biomass Conversion and Biorefinery, 2021, 11, 2089-2094.	2.9	5
208	Seasonal Changes in the Chemical Composition and Anaerobic Digestibility of Harvested Submerged Macrophytes. Bioenergy Research, 2020, 13, 683-692.	2.2	5
209	Employing anaerobic fungi in biogas production: challenges & opportunities. Bioresource Technology, 2020, 300, 122687.	4.8	34
210	Pretreatment strategies for enhanced biogas production from lignocellulosic biomass. Bioresource Technology, 2020, 301, 122725.	4.8	323
211	Biotechnological utilization of animal gut microbiota for valorization of lignocellulosic biomass. Applied Microbiology and Biotechnology, 2020, 104, 489-508.	1.7	39
212	Downstream augmentation of hydrothermal carbonization with anaerobic digestion for integrated biogas and hydrochar production from the organic fraction of municipal solid waste: A circular economy concept. Science of the Total Environment, 2020, 706, 135907.	3.9	60
213	Biobutanol from lignocellulosic biomass: bioprocess strategies. , 2020, , 169-193.		13
214	Anaerobic digestion of biorefinery lignin: Effect of different wet explosion pretreatment conditions. Bioresource Technology, 2020, 298, 122537.	4.8	21
215	Cyclic and safety utilisation of Cu polluted biogas residue in saline-alkali soil. Science of the Total Environment, 2020, 704, 135410.	3.9	8
216	A Model for Bioaugmented Anaerobic Granulation. Frontiers in Microbiology, 2020, 11, 566826.	1.5	1
217	Waste to Energy: A Focus on the Impact of Substrate Type in Biogas Production. Processes, 2020, 8, 1224.	1.3	70

#	Article	IF	Citations
218	Microorganisms and Enzymes Used in the Biological Pretreatment of the Substrate to Enhance Biogas Production: A Review. Sustainability, 2020, 12, 7205.	1.6	77
219	Promising biological conversion of lignocellulosic biomass to renewable energy with rumen microorganisms: A comprehensive review. Renewable and Sustainable Energy Reviews, 2020, 134, 110335.	8.2	66
220	Valorization of raw brewersâ€™ spent grain through the production of volatile fatty acids. New Biotechnology, 2020, 57, 4-10.	2.4	40
221	Effects of Adding Zero Valent Iron on the Anaerobic Digestion of Cow Manure and Lignocellulose. Frontiers in Bioengineering and Biotechnology, 2020, 8, 590200.	2.0	12
222	Valorization of municipal solid waste in biorefineries for the creation of a circular economy. , 2020, , 323-347.		1
223	Exploring the Biomethane Potential of Different Industrial Hemp (Cannabis sativa L.) Biomass Residues. Energies, 2020, 13, 3361.	1.6	25
224	New Insights on the Estimation of the Anaerobic Biodegradability of Plant Material: Identifying Valuable Plants for Sustainable Energy Production. Processes, 2020, 8, 806.	1.3	7
225	Sustainable Production of Bioplastics from Lignocellulosic Biomass: Technoeconomic Analysis and Life-Cycle Assessment. ACS Sustainable Chemistry and Engineering, 2020, 8, 12419-12429.	3.2	64
226	Assessment of Areal Methane Yields from Energy Crops in Ukraine, Best Practices. Applied Sciences (Switzerland), 2020, 10, 4431.	1.3	6
227	Harnessing bioenergy and high valueâ€"added products from rice residues: a review. Biomass Conversion and Biorefinery, 2022, 12, 3547-3571.	2.9	13
228	Optimum Coâ€Digestion Ratio of Cattle Manure and Manipueira in a Singleâ€Stage Anaerobic Digester for Biogas Production. Clean - Soil, Air, Water, 2020, 48, 2000096.	0.7	2
229	Improved biomethanation of horse manure through acid-thermal pretreatment and supplementation of iron nanoparticles under mesophilic and thermophilic conditions. Biomass Conversion and Biorefinery, 2022, 12, 2993-3006.	2.9	2
230	Anaerobic fermentation of hybrid Pennisetum mixed with fruit and vegetable wastes to produce volatile fatty acids. RSC Advances, 2020, 10, 33261-33267.	1.7	4
231	The role of rice husk biochar addition in anaerobic digestion for sweet sorghum under high loading condition. Biotechnology Reports (Amsterdam, Netherlands), 2020, 27, e00515.	2.1	27
232	Utilization of Agricultural and Livestock Waste in Anaerobic Digestion (A.D): Applying the Biorefinery Concept in a Circular Economy. Energies, 2020, 13, 4428.	1.6	39
233	Change of Endoglucanase Activity and Rumen Microbial Community During Biodegradation of Cellulose Using Rumen Microbiota. Frontiers in Microbiology, 2020, 11, 603818.	1.5	11
234	Quantifying porosity changes in solid biomass waste using a disruptive approach of water retention curves (WRC) for dry anaerobic digestion. Bioresource Technology Reports, 2020, 12, 100585.	1.5	8
235	Comparing Low-Temperature Hydrothermal Pretreatments through Convective Heating versus Microwave Heating for Napier Grass Digestion. Processes, 2020, 8, 1221.	1.3	9

#	Article	IF	Citations
236	Assessing the bioenergy potential of high-ash anaerobic sewage sludge using pyrolysis kinetics and thermodynamics to design a sustainable integrated biorefinery. Biomass Conversion and Biorefinery, 2022, 12, 693-704.	2.9	13
237	An assessment of road-verge grass as a feedstock for farm-fed anaerobic digestion plants. Biomass and Bioenergy, 2020, 138, 105570.	2.9	17
238	Biogenic Catalysis by Adding Compost when Using Wheat Straw in a Biorefinery Concept. Chemical Engineering and Technology, 2020, 43, 1485-1492.	0.9	1
240	Chemical and Bioenergetic Characterization of Biofuels from Plant Biomass: Perspectives for Southern Europe. Applied Sciences (Switzerland), 2020, 10, 3571.	1.3	9
241	Electrochemical capacitive performance of intact anaerobic granular sludge-based 3D bioanode. Journal of Power Sources, 2020, 470, 228399.	4.0	18
242	Anaerobic Digestion of Napier Grass (Pennisetum purpureum) in Two-Phase Dry Digestion System Versus Wet Digestion System. Bioenergy Research, 2020, 13, 853-865.	2.2	16
243	Development of sustainable approaches for converting the organic waste to bioenergy. Science of the Total Environment, 2020, 723, 138109.	3.9	103
244	Acidogenic and methanogenic properties of corn straw silage: Regulation and microbial analysis of two-phase anaerobic digestion. Bioresource Technology, 2020, 307, 123180.	4.8	22
245	Proteomics ofÂLignocellulosic Substrates Bioconversion in Anaerobic Digesters to Increase Carbon Recovery as Methane. Applied Environmental Science and Engineering for A Sustainable Future, 2020, , 81-110.	0.2	2
247	Modeling methane potential yield and chemical composition of bedded pack barn cattle manure: Influence of cattle, season, growth stage, its retention time and particle distribution. Journal of Material Cycles and Waste Management, 2020, 22, 1006-1018.	1.6	1
248	Biomass conversion processes. , 2020, , 41-151.		2
249	Weak-base pretreatment to increase biomethane production from wheat straw. Environmental Science and Pollution Research, 2020, 27, 37989-38003.	2.7	11
250	Co-digestion of cow and sheep manure: Performance evaluation and relative microbial activity. Renewable Energy, 2020, 153, 553-563.	4.3	47
251	Kinetics and optimization of microwave-assisted lignin fractionation with Protic low transition temperature mixture of Sesamum indicum straw for enhanced bioethanol production. Journal of Molecular Liquids, 2020, 303, 112660.	2.3	15
252	Recovery of the fibrolytic microorganisms from rumen fluid by flocculation for simultaneous treatment of lignocellulosic biomass and volatile fatty acid production. Journal of Cleaner Production, 2020, 257, 120626.	4.6	15
253	New insights from the biogas microbiome by comprehensive genome-resolved metagenomics of nearly 1600 species originating from multiple anaerobic digesters. Biotechnology for Biofuels, 2020, 13, 25.	6.2	136
254	Simultaneous recovery of phosphorus and nitrogen from liquid digestate by vacuum membrane distillation with permeate fractional condensation. Chinese Journal of Chemical Engineering, 2020, 28, 1558-1565.	1.7	11
255	Near complete valorisation of Hybrid pennisetum to biomethane and lignin nanoparticles based on gamma-valerolactone/water pretreatment. Bioresource Technology, 2020, 305, 123040.	4.8	19

#	Article	IF	Citations
257	Anaerobic Co-Digestion of Wastewater Sludge: A Review of Potential Co-Substrates and Operating Factors for Improved Methane Yield. Processes, 2020, 8, 39.	1.3	105
258	Novel thermodynamic early warning method for anaerobic digestion failure of energy crops. Bioresource Technology, 2020, 310, 123440.	4.8	5
259	Enhancement of biogas production from rape straw using different co-pretreatment techniques and anaerobic co-digestion with cattle manure. Bioresource Technology, 2020, 309, 123311.	4.8	39
260	Simultaneous H2S mitigation and methanization enhancement of chicken manure through the introduction of the micro-aeration approach. Chemosphere, 2020, 253, 126687.	4.2	15
261	Achieve clean and efficient biomethane production by matching between digestate recirculation and straw-to-manure feeding ratios. Journal of Cleaner Production, 2020, 263, 121414.	4.6	20
262	Anaerobic Digestion of Fruit Waste Mixed With Sewage Sludge Digestate Biochar: Influence on Biomethane Production. Frontiers in Energy Research, 2020, 8, .	1.2	43
263	Hygienization and microbial metabolic adaptation during anaerobic co-digestion of swine manure and corn stover. Bioresource Technology, 2020, 306, 123168.	4.8	13
264	Pretreatment of lignocelluloses for enhanced biogas production: A review on influencing mechanisms and the importance of microbial diversity. Renewable and Sustainable Energy Reviews, 2021, 135, 110173.	8.2	128
265	Heterologous expression and biochemical characterization of a thermostable endo-Î²-1,4-glucanase from Colletotrichum orchidophilum. Bioprocess and Biosystems Engineering, 2021, 44, 67-79.	1.7	10
266	Screening design of nutritional and physicochemical parameters on bio-hydrogen and volatile fatty acids production from Citrus Peel Waste in batch reactors. International Journal of Hydrogen Energy, 2021, 46, 7794-7809.	3.8	12
267	Effect of ultrasonic post-treatment on anaerobic digestion of lignocellulosic waste. Waste Management and Research, 2021, 39, 221-232.	2.2	7
268	Recent advances and challenges of inter-disciplinary biomass valorization by integrating hydrothermal and biological techniques. Renewable and Sustainable Energy Reviews, 2021, 135, 110370.	8.2	108
269	Why can hydrothermally pretreating lignocellulose in low severities improve anaerobic digestion performances?. Science of the Total Environment, 2021, 752, 141929.	3.9	20
270	A comprehensive review of the recent development and challenges of a solar-assisted biodigester system. Science of the Total Environment, 2021, 753, 141920.	3.9	60
271	Biogas production using dry fermentation technology through co-digestion of manure and agricultural wastes. Environment, Development and Sustainability, 2021, 23, 8746-8757.	2.7	12
272	Impact of metallic nanoparticles on anaerobic digestion: A systematic review. Science of the Total Environment, 2021, 757, 143747.	3.9	56
273	Improving the biogas yield of manure: Effect of pretreatment on anaerobic digestion of the recalcitrant fraction of manure. Bioresource Technology, 2021, 321, 124427.	4.8	30
274	Sugarcane bagasse based biorefineries in India: potential and challenges. Sustainable Energy and Fuels, 2021, 5, 52-78.	2.5	62

#	Article	IF	Citations
275	Synergistic association between cytochrome bd-encoded Proteiniphilum and reactive oxygen species (ROS)-scavenging methanogens in microaerobic-anaerobic digestion of lignocellulosic biomass. Water Research, 2021, 190, 116721.	5.3	71
276	The prospects of brewery waste application in biohydrogen production by photofermentation of Rhodobacter sphaeroides. International Journal of Hydrogen Energy, 2021, 46, 289-296.	3.8	14
277	An overview of fungal pretreatment processes for anaerobic digestion: Applications, bottlenecks and future needs. Bioresource Technology, 2021, 321, 124397.	4.8	48
278	Status and perspectives of agricultural residues in a circular and resource-efficient context. , 2021, , 49-102.		1
279	The solid-state physicochemical properties and biogas production of the anaerobic digestion of corn straw pretreated by microwave irradiation. RSC Advances, 2021, 11, 3575-3584.	1.7	26
280	Optimization Issues of a Hammer Mill Working Process Using Statistical Modelling. Sustainability, 2021, 13, 973.	1.6	5
281	Fluorescence characteristics of dissolved organic matter during anaerobic digestion of oil crop straw inoculated with rumen liquid. RSC Advances, 2021, 11, 14347-14356.	1.7	11
282	Biomethanation of agricultural residues: Potential, limitations and possible solutions. Renewable and Sustainable Energy Reviews, 2021, 135, 110217.	8.2	61
283	Liquid Hot Water Pretreatment for Lignocellulosic Biomass Biorefinery. , 2021, , 81-109.		0
284	Efficient utilization of plant biomass after harvesting the phytoremediator plants. , 2021, , 57-84.		3
285	Revisiting lignin: a tour through its structural features, characterization methods and applications. New Journal of Chemistry, 2021, 45, 6986-7013.	1.4	52
286	Potassium Hydroxyde Pre-Treatment Enhances Methane Yield from Giant Reed (Arundo donax L.). Energies, 2021, 14, 630.	1.6	14
287	Energetic and Economic Evaluation of Zero-Waste Fish Co-Stream Processing. International Journal of Environmental Research and Public Health, 2021, 18, 2358.	1.2	9
288	Natural Grasslands as Lignocellulosic Biofuel Resources: Factors Affecting Fermentable Sugar Production. Energies, 2021, 14, 1312.	1.6	3
289	Evaluation of chemical-free microwave pretreatment on methane yield of two grass biomass with contrasted parietal content. Energy Conversion and Management, 2021, 229, 113746.	4.4	5
290	Complex chemical kinetic mechanism reduction for simultaneous catalytic oxidation and desulphurization of hydrogen sulphide. Fuel, 2021, 286, 119406.	3.4	1
291	Improving the Anaerobic Digestion of Swine Manure through an Optimized Ammonia Treatment: Process Performance, Digestate and Techno-Economic Aspects. Energies, 2021, 14, 787.	1.6	10
292	Material utilization of green waste: a review on potential valorization methods. Bioresources and Bioprocessing, 2021, 8, .	2.0	35

#	Article	IF	Citations
293	Gasification of Biomass in Supercritical Water, Challenges for the Process Designâ€"Lessons Learned from the Operation Experience of the First Dedicated Pilot Plant. Processes, 2021, 9, 455.	1.3	23
294	A greener, mild, and efficient bioprocess for the pretreatment and saccharification of rice straw. Biomass Conversion and Biorefinery, 2023, 13, 4121-4133.	2.9	6
295	Integrated sustainable process for polyhydroxyalkanoates production from lignocellulosic waste by purple phototrophic bacteria. GCB Bioenergy, 2021, 13, 862-875.	2.5	11
296	Biofuel for energy self-sufficiency in agricultural sector of Iran. Sustainable Energy Technologies and Assessments, 2021, 44, 101069.	1.7	3
297	Fermentation of Biodegradable Organic Waste by the Family Thermotogaceae. Resources, 2021, 10, 34.	1.6	13
298	Decentralized energy from portable biogas digesters using domestic kitchen waste: A review. Waste Management, 2021, 125, 10-26.	3.7	44
299	Pretreatments of wheat straw for possibility use in maintenance-free compressed green roof substrates. Cellulose, 2021, 28, 5625-5642.	2.4	5
300	Contribution of Anaerobic Digestion Coupled with Algal System towards Zero Waste. , 0, , .		2
301	Improving anaerobic digestion of chicken manure under optimized biochar supplementation strategies. Bioresource Technology, 2021, 325, 124697.	4.8	43
302	Biogas production from small-scale anaerobic digestion plants on European farms. Renewable and Sustainable Energy Reviews, 2021, 139, 110580.	8.2	69
303	Facilitated lignocellulosic biomass digestibility in anaerobic digestion for biomethane production: microbial communities' structure and interactions. Journal of Chemical Technology and Biotechnology, 2021, 96, 1798-1817.	1.6	8
304	Anaerobic digestion of elephant campâ€"derived wastes: methane potential, kinetic study, and biorefinery platform. Biomass Conversion and Biorefinery, 2023, 13, 6175-6184.	2.9	2
305	Effect of Semi-Continuous Anaerobic Digestion on the Substrate Solubilisation of Lignin-Rich Steam-Exploded Ludwigia grandiflora. Applied Sciences (Switzerland), 2021, 11, 4452.	1.3	3
306	Hydrolytic performances of different organic compounds in different lignocellulosic biomass during anaerobic digestion. Environmental Engineering Research, 2022, 27, 210013-0.	1.5	0
307	Cellulolytic and Xylanolytic Microbial Communities Associated With Lignocellulose-Rich Wheat Straw Degradation in Anaerobic Digestion. Frontiers in Microbiology, 2021, 12, 645174.	1.5	22
308	Effect of methanol-organosolv pretreatment on anaerobic digestion of lignocellulosic materials. Renewable Energy, 2021, 169, 1000-1012.	4.3	46
309	Effect of microaerobic microbial pretreatment on anaerobic digestion of a lignocellulosic substrate under controlled pH conditions. Bioresource Technology, 2021, 328, 124852.	4.8	26
310	Biomethanation of Napier Grass Mono-digestion in Single-Stage Anaerobic Completely Stirred Tank Reactors Seeded with Cow Manure and Anaerobic Sludge. Bioenergy Research, 2022, 15, 559-572.	2.2	4

#	Article	IF	Citations
311	Enhanced Methane Production from Anaerobic Co-Digestion of Wheat Straw Rice Straw and Sugarcane Bagasse: A Kinetic Analysis. Applied Sciences (Switzerland), 2021, 11, 6069.	1.3	10
312	Turn the wheel from waste to wealth: Economic and environmental gain of sustainable rice straw management practices over field burning in reference to India. Science of the Total Environment, 2021, 775, 145896.	3.9	73
313	Application of the linearized ADM1 (LADM) to lab-scale anaerobic digestion system. Journal of Environmental Chemical Engineering, 2021, 9, 105193.	3.3	14
314	A Review on Bacterial Contribution to Lignocellulose Breakdown into Useful Bio-Products. International Journal of Environmental Research and Public Health, 2021, 18, 6001.	1.2	45
315	Liquefaction of lignocellulosic biomass for methane production: A review. Bioresource Technology, 2021, 332, 125068.	4.8	41
316	Circular utilization of food waste to biochar enhances thermophilic co-digestion performance. Bioresource Technology, 2021, 332, 125130.	4.8	13
317	Forecasting the potential and economic feasibility of power generation using biogas from food waste in Ghana: Evidence from Accra and Kumasi. Energy, 2021, 226, 120342.	4.5	28
318	Process intensification for the recovery of methane-rich biogas from dry anaerobic digestion of aÃ§aÃ-seeds. Biomass Conversion and Biorefinery, 2023, 13, 8101-8114.	2.9	16
319	Conversion of biomass to biofuels and life cycle assessment: a review. Environmental Chemistry Letters, 2021, 19, 4075-4118.	8.3	263
320	Strategies to improve solid state anaerobic bioconversion of lignocellulosic biomass: an overview. Bioresource Technology, 2021, 331, 125036.	4.8	33
321	Digestion liquid based alkaline pretreatment of waste activated sludge promotes methane production from anaerobic digestion. Water Research, 2021, 199, 117198.	5.3	63
322	Evaluation of lignin inhibition in anaerobic digestion from the perspective of reducing the hydrolysis rate of holocellulose. Bioresource Technology, 2021, 333, 125204.	4.8	13
323	Valorization of MacaÃºba husks from biodiesel production using subcritical water hydrolysis pretreatment followed by anaerobic digestion. Journal of Environmental Chemical Engineering, 2021, 9, 105656.	3.3	14
324	Assessment of Coproduction of Ethanol and Methane from Pennisetum purpureum: Effects of Pretreatment, Process Performance, and Mass Balance. ACS Sustainable Chemistry and Engineering, 2021, 9, 10771-10784.	3.2	9
325	Biomass Conversion Technologies for Bioenergy Generation: An Introduction. , 0, , .		8
326	Development of devices for the determination of the rheological properties of coarse biomass treated by dry anaerobic digestion. Bioresource Technology Reports, 2021, 15, 100686.	1.5	6
327	Construction of a novel microbial consortium valued for the effective degradation and detoxification of creosote-treated sawdust along with enhanced methane production. Journal of Hazardous Materials, 2021, 418, 126091.	6.5	25
328	Wet organic waste treatment via hydrothermal processing: A critical review. Chemosphere, 2021, 279, 130557.	4.2	77

#	Article	IF	Citations
329	Recovery processes of sustainable energy using different biomass and wastes. Renewable and Sustainable Energy Reviews, 2021, 150, 111483.	8.2	93
330	Effect of metal nanoparticles on microbial community shift and syntrophic metabolism during anaerobic digestion of Azolla microphylla. Journal of Environmental Chemical Engineering, 2021, 9, 105841.	3.3	15
331	Anaerobic digestion beyond biogas. Bioresource Technology, 2021, 337, 125378.	4.8	33
332	Bioenergy from dairy manure: technologies, challenges and opportunities. Science of the Total Environment, 2021, 790, 148199.	3.9	23
333	Commercial biogas plants: Review on operational parameters and guide for performance optimization. Fuel, 2021, 303, 121282.	3.4	33
334	Anaerobic digestion of waste activated sludge using dynamic membrane at varying substrate concentration reveals new insight towards methanogenic pathway and biofilm formation. Chemical Engineering Journal, 2021, 423, 130249.	6.6	21
335	Solid-state anaerobic digestion of sugarcane bagasse at different solid concentrations: Impact of bio augmented cellulolytic bacteria on methane yield and insights on microbial diversity. Bioresource Technology, 2021, 340, 125675.	4.8	13
336	Co-digestion of microbial biomass with animal manure in three-stage anaerobic digestion. Fuel, 2021, 306, 121746.	3.4	26
337	An application of the Life Cycle Thinking: Green refinery enhancements. Fuel, 2021, 305, 121559.	3.4	2
338	Lytic polysaccharide monooxygenases (LPMOs) producing microbes: A novel approach for rapid recycling of agricultural wastes. Science of the Total Environment, 2022, 806, 150451.	3.9	16
339	In-situ microaeration of anaerobic digester treating buffalo manure for enhanced biogas yield. Renewable Energy, 2022, 181, 843-850.	4.3	8
340	Challenges and future perspectives involved for operations in the production of bioenergy from biomass. , 2021, , 211-223.		0
341	Comparison of Operating Methods in Cartridge Anaerobic Digestion of Corn Stover. Bioenergy Research, 2022, 15, 1225-1231.	2.2	2
342	Natural deep eutectic solvents for sustainable extraction of pigments and antioxidants from agri-processing waste. , 2021, , 747-785.		0
343	Characterization of efficient xylanases from industrial-scale pulp and paper wastewater treatment microbiota. AMB Express, 2021, 11, 19.	1.4	16
344	Two-Stage Process to Enhance Bio-hydrogen Production. Biofuel and Biorefinery Technologies, 2019, , 149-179.	0.1	2
345	Advanced Pretreatment Strategies for Bioenergy Production from Biomass and Biowaste. , 2019, , 1507-1524.		4
346	Bio-pretreatment promote hydrolysis and acidification of oilseed rape straw: Roles of fermentation broth and micro-oxygen. Bioresource Technology, 2020, 308, 123272.	4.8	32

#	Article	IF	Citations
347	Derivation of volatile fatty acid from crop residues digestion using a rumen membrane bioreactor: A feasibility study. Bioresource Technology, 2020, 312, 123571.	4.8	26
349	Microbial Biomethane from Solid Wastes. , 2017, , 77-152.		6
351	Bio-hydrogen and Methane Production from Lignocellulosic Materials. , 0, , .		9
352	The effect of brewery spent grain application on biogas yields and kinetics in co-digestion with sewage sludge. PeerJ, 2020, 8, e10590.	0.9	22
353	A combined anaerobic digestion system for energetic brewery spent grain application in co-digestion with a sewage sludge. Waste Management, 2021, 135, 448-456.	3.7	8
354	ENVIRONMENTAL AND PROCESS PARAMETERS OF METHANE FERMENTATION IN CONTINUOSLY STIRRED TANK REACTOR (CSTR). InÅ¼ynieria Ekologiczna, 2016, , 153-160.	0.2	2
356	The effect of ensiling and alkaline pretreatment on anaerobic acidification of Napier grass in the leached bed process. Environmental Engineering Research, 2020, 25, 668-676.	1.5	5
357	Sodium dodecyl sulfate improves the treatment of waste paper with rumen fluid at lower concentration but decreases at higher condition. Journal of Material Cycles and Waste Management, 2020, 22, 656-663.	1.6	3
358	Speciation of iron, nickel and cobalt in the anaerobic biodegradation of rice straw. Revista Facultad De IngenierÃa, 0, , .	0.5	1
359	Co-digesting sugarcane vinasse and distilled glycerol to enhance bioenergy generation in biofuel-producing plants. Energy Conversion and Management, 2021, 250, 114897.	4.4	25
360	Biochar as an Adsorbent: A Short Overview. Green Energy and Technology, 2020, , 399-422.	0.4	4
361	Links between carbon/nitrogen ratio, synergy and microbial characteristics of long-term semi-continuous anaerobic co-digestion of food waste, cattle manure and corn straw. Bioresource Technology, 2022, 343, 126094.	4.8	40
362	Energy recovery from biomass through gasification technology. , 2022, , 107-132.		1
363	Biogas Technology for Animal Manure Management in the USA: State of the Art, Opportunities, Challenges, and Perspectives. , 2020, , 57-72.		0
364	The circular economy concept application to livestock systems: an agroecological approach. CAB Reviews: Perspectives in Agriculture, Veterinary Science, Nutrition and Natural Resources, 0, , .	0.6	3
365	Anaerobic digestion of food waste at varying operating conditions. Detritus, 2020, , 99-105.	0.4	4
366	Integrated conversion technologies for sustainable agri-food waste valorization: A critical review. Biomass and Bioenergy, 2022, 156, 106314.	2.9	20
367	Multi-stage pre-treatment of lignocellulosic biomass for multi-product biorefinery: A review. Sustainable Energy Technologies and Assessments, 2022, 49, 101702.	1.7	21

#	Article	IF	Citations
368	Torrefaction, temperature, and heating rate dependencies of pyrolysis of coffee grounds: Its performances, bio-oils, and emissions. Bioresource Technology, 2022, 345, 126346.	4.8	46
369	Effect of hydrothermal carbonization pretreatment on the pyrolysis behavior of the digestate of agricultural waste: A view on kinetics and thermodynamics. Chemical Engineering Journal, 2022, 431, 133881.	6.6	16
371	Metagenomic insight of corn straw conditioning on substrates metabolism during coal anaerobic fermentation. Science of the Total Environment, 2022, 808, 152220.	3.9	12
373	Methane enhancement by the co-digestion of thermochemical alkali solubilized rice husk and cow manure: Lignocellulosics decomposition perspectives. Biomass Conversion and Biorefinery, 2023, 13, 13963-13975.	2.9	2
374	Sustainable valorization of apple waste in a biorefinery: a bibliometric analysis. Biofuels, Bioproducts and Biorefining, 2022, 16, 891-919.	1.9	11
375	Research progress, trends, and updates on anaerobic digestion technology: A bibliometric analysis. Journal of Cleaner Production, 2022, 331, 130004.	4.6	81
376	Bioaugmentation strategies via acclimatized microbial consortia for bioenergy production. , 2022, , 179-214.		2
378	Biohythane and organic acid production from food waste by two-stage anaerobic digestion: a review within biorefinery framework. International Journal of Environmental Science and Technology, 2022, 19, 12791-12824.	1.8	13
379	Augmentation characteristics and microbial community dynamics of low temperature resistant composite strains LTF-27. Environmental Science and Pollution Research, 2022, , 1.	2.7	2
380	Life Cycle Assessment of Two Alkaline Pretreatments of Sorghum and Miscanthus and of Their Batch Co-digestion with Cow Manure. Bioenergy Research, 2022, 15, 810-833.	2.2	7
381	Valorisation of lignocellulosic biomass to value-added products: Paving the pathway towards low-carbon footprint. Fuel, 2022, 313, 122678.	3.4	66
382	Upgradation of bio-oil derived from various biomass feedstocks via hydrodeoxygenation. , 2022, , 287-308.		2
383	Syngas production via biomass gasification. , 2022, , 211-261.		4
384	Biomass Based Bioenergy: Technologies and Impact on Environmental Sustainability. Daehan Hwan'gyeong Gonghag Hoeji, 2022, 44, 1-12.	0.4	3
385	A review of recent advancements in pretreatment techniques of lignocellulosic materials for biogas production: Opportunities and Limitations. Chemical Engineering Journal Advances, 2022, 10, 100263.	2.4	56
386	Synergistic Effect from Anaerobic Co-Digestion of Food Waste and Water Hyacinth in Improving Treatment of Organic Waste and Bio-Methane Recovery. SSRN Electronic Journal, 0, , .	0.4	1
387	Performance of Bioelectrode Based on Different Carbon Materials in Bioelectrochemical Anaerobic Digestion for the Methanation of Maize Straw. SSRN Electronic Journal, 0, , .	0.4	0
388	Residual Biomass: A Comprehensive Review on the Importance, Uses and Potential in a Circular Bioeconomy Approach. Resources, 2022, 11, 35.	1.6	21

#	Article	IF	Citations
389	Evaluation of Biogas Through Chemically Treated Cottonseed Hull in Anaerobic Digestion With/Without Cow Dung: an Experimental Study. Bioenergy Research, 0, , 1.	2.2	4
390	Performance evaluation of ANFIS and RSM modeling in predicting biogas and methane yields from Arachis hypogea shells pretreated with size reduction. Renewable Energy, 2022, 189, 288-303.	4.3	31
391	Co-composting of biochar and nitrogen-poor organic residues: Nitrogen losses and fate of polycyclic aromatic hydrocarbons. Waste Management, 2022, 143, 84-94.	3.7	9
392	Characterisation of cellulose-degrading organisms in an anaerobic digester. Bioresource Technology, 2022, 351, 126933.	4.8	16
393	Energy recovery from food waste and garden and park waste: Anaerobic co-digestion versus hydrothermal treatment and anaerobic co-digestion. Chemosphere, 2022, 297, 134223.	4.2	34
394	Pretreatment methods to enhance solubilization and anaerobic biodegradability of lignocellulosic biomass (wheat straw): Progress and challenges. Fuel, 2022, 319, 123726.	3.4	34
395	Performance of bioelectrode based on different carbon materials in bioelectrochemical anaerobic digestion for methanation of maize straw. Science of the Total Environment, 2022, 832, 154997.	3.9	12
396	Shifts in xylanases and the microbial community associated with xylan biodegradation during treatment with rumen fluid. Microbial Biotechnology, 2022, 15, 1729-1743.	2.0	9
397	Kinetic model discrimination on the biogas production in thermophilic co-digestion of sugarcane vinasse and water hyacinth. Environmental Science and Pollution Research, 2022, 29, 61298-61306.	2.7	3
406	Pretreatment of Jerusalem artichoke stalk using hydroxylammonium ionic liquids and their influences on 2,3-butanediol fermentation by Bacillus subtilis. Bioresource Technology, 2022, 354, 127219.	4.8	8
407	Biogas Production Potential of Thermophilic Anaerobic Biodegradation of Organic Waste by a Microbial Consortium Identified with Metagenomics. Life, 2022, 12, 702.	1.1	10
408	Biogas production via anaerobic codigestion of chemically treated wheat straw with sewage sludge or cow manure. Biomass Conversion and Biorefinery, 2024, 14, 5505-5516.	2.9	5
409	Assessment of the Pretreatments and Bioconversion of Lignocellulosic Biomass Recovered from the Husk of the Cocoa Pod. Energies, 2022, 15, 3544.	1.6	3
410	Thermophilic anaerobic membrane bioreactor for pulp and paper primary sludge treatment: Effect of solids retention time on the biological performance. Biomass and Bioenergy, 2022, 161, 106388.	2.9	2
411	Methane production from date seed cake (Phoenix dactylifera L.) using mesophilic fed-batch anaerobic digestion. , 2022, 2, 100009.		3
412	Multi-advantageous sorghum as feedstock for biogas production: A comparison between single-stage and two-stage anaerobic digestion systems.. Journal of Cleaner Production, 2022, 358, 131985.	4.6	10
413	A comprehensive review on optimization of anaerobic digestion technologies for lignocellulosic biomass available in India. Biomass and Bioenergy, 2022, 161, 106479.	2.9	28
414	Pre-treatment of lignocellulosic materials by enzymatic mixture to enhance biogas production. Acta Chimica Slovaca, 2022, 15, 36-43.	0.5	0

#	Article	IF	Citations
415	Effect of Substrate to Inoculum Ratio and Inoculum Type on Solid State Anaerobic Digestion of Dairy Manure. Han'guk T'oyang Piryo Hakhoe Chi Han'guk T'oyang Piryo Hakhoe, 2019, 52, 249-262.	0.1	0
417	Strategies involved in biofuel production from agro-based lignocellulose biomass. Environmental Technology and Innovation, 2022, 28, 102679.	3.0	26
418	Multi-criteria assessment of food waste and waste paper anaerobic co-digestion: Effects of inoculation ratio, total solids content, and feedstock composition. Renewable Energy, 2022, 194, 40-50.	4.3	12
419	Biomethane from microalgae. , 2022, , 463-503.		0
420	A review on enhanced biofuel production from coffee by-products using different enhancement techniques. Materials for Renewable and Sustainable Energy, 2022, 11, 91-103.	1.5	8
421	Advances in microbial synthesis of bioplastic monomers. Advances in Applied Microbiology, 2022, , .	1.3	0
423	Recent trends in the pyrolysis and gasification of lignocellulosic biomass. , 2022, , 511-552.		5
424	A critical review on prospects of bio-refinery products from second and third generation biomasses. Chemical Engineering Journal, 2022, 448, 137677.	6.6	42
426	Metaproteomics reveals enzymatic strategies deployed by anaerobic microbiomes to maintain lignocellulose deconstruction at high solids. Nature Communications, 2022, 13, .	5.8	12
427	Integrated AHP-TOPSIS under a Fuzzy Environment for the Selection of Waste-To-Energy Technologies in Ghana: A Performance Analysis and Socio-Enviro-Economic Feasibility Study. International Journal of Environmental Research and Public Health, 2022, 19, 8428.	1.2	8
428	Anaerobic Fungi Isolated From Bactrian Camel Rumen Contents Have Strong Lignocellulosic Bioconversion Potential. Frontiers in Microbiology, 0, 13, .	1.5	1
429	Optimization of subcritical water pre-treatment for biogas enhancement on co-digestion of pineapple waste and cow dung using the response surface methodology. Waste Management, 2022, 150, 98-109.	3.7	11
430	Role of interspecies electron transfer stimulation in enhancing anaerobic digestion under ammonia stress: Mechanisms, advances, and perspectives. Bioresource Technology, 2022, 360, 127558.	4.8	9
431	Strategies to enhance enzymatic hydrolysis of lignocellulosic biomass for biorefinery applications: A review. Bioresource Technology, 2022, 360, 127517.	4.8	43
432	Thermo-chemo-sonic pretreatment of lignocellulosic waste: Evaluating anaerobic biodegradability and environmental impacts. Bioresource Technology, 2022, 361, 127675.	4.8	10
433	Technological and Energetic Aspects of Multi-Component Co-Digestion of the Beverage Industry Wastes and Municipal Sewage Sludge. Energies, 2022, 15, 5395.	1.6	2
435	Ultrasounds application for nut and coffee wastes valorisation via biomolecules solubilisation and methane production. Waste Management, 2022, 150, 373-382.	3.7	6
436	Potential of biomass processing using digester in arrangement with a Brayton cycle, a Kalina cycle, and a multi-effect desalination; thermodynamic/environmental/financial study and MOPSO-based optimization. Energy, 2022, 261, 125222.	4.5	14

#	Article	IF	Citations
437	Graphene/hydroxyapatite nano-composite for enhancement of hydrogen productivity from delignified duckweed. Fuel, 2022, 330, 125537.	3.4	7
438	Recent Update on anaerobic digestion of paddy straw for biogas production: Advancement, limitation and recommendations. Environmental Research, 2022, 215, 114292.	3.7	12
439	Role of Cannabis sativa L. in energy production: residues as a potential lignocellulosic biomass in anaerobic digestion plants. , 2023, , 111-199.		0
440	Enhancement of anaerobic digestion by co-digesting food waste and water hyacinth in improving treatment of organic waste and bio-methane recovery. Heliyon, 2022, 8, e10580.	1.4	11
441	Methane production potential from anaerobic digestion of plant biomass residues and food waste as substrates. Journal of Material Cycles and Waste Management, 2022, 24, 2470-2482.	1.6	1
442	Enzymatic Pretreatment of Sugarcane Bagasse and Fruit-Vegetable Waste for Energy Conversion by Co-digestion. Waste and Biomass Valorization, 0, , .	1.8	1
443	Thermo-Catalytic Reforming (TCR) - an important link between waste management and renewable fuels as part of the energy transition. Applications in Energy and Combustion Science, 2022, , 100088.	0.9	0
444	Role of Microorganisms in Production of Biofuels. Clean Energy Production Technologies, 2022, , 65-116.	0.3	1
445	Combined Biological and Chemical/Physicochemical Pretreatment Methods of Lignocellulosic Biomass for Bioethanol and Biomethane Energy Productionâ€"A Review. Applied Microbiology, 2022, 2, 716-734.	0.7	7
446	Optimization of the production and quality of biogas in the anaerobic digestion of different types of biomass in a batch laboratory biodigester and pilot plant: Numerical modeling, kinetic study and hydrogen potential. International Journal of Hydrogen Energy, 2022, 47, 39386-39403.	3.8	4
447	Sustainable strategies for anaerobic digestion of oil palm empty fruit bunches in Indonesia: a review. International Journal of Sustainable Energy, 2022, 41, 2044-2096.	1.3	7
448	Pretreatment of lignocellulosic biogas substrates by filamentous fungi. Journal of Biotechnology, 2022, 360, 160-170.	1.9	12
449	Integrated Marine Biogas: A Promising Approach towards Sustainability. Fermentation, 2022, 8, 520.	1.4	15
450	Comparison of machine learning methods for predicting the methane production from anaerobic digestion of lignocellulosic biomass. Energy, 2023, 263, 125883.	4.5	16
451	A comprehensive review on the biological conversion of lignocellulosic biomass into hydrogen: Pretreatment strategy, technology advances and perspectives. Bioresource Technology, 2022, 365, 128166.	4.8	25
452	Intrinsic Insights of Nanoparticles via Anaerobic Digestion for Enhanced Biogas Production. , 2022, , 2481-2506.		0
453	Cavitation-based technologies for pretreatment and processing of food wastes: Major applications and mechanisms â€" A review. Chemical Engineering Journal, 2023, 454, 140388.	6.6	18
454	Valorization of apple pomace for biogas production: a leading anaerobic biorefinery approach for a circular bioeconomy. Biomass Conversion and Biorefinery, 0, , .	2.9	4

#	Article	IF	Citations
455	Anaerobic Digestion of Cereal Rye Cover Crop. Fermentation, 2022, 8, 617.	1.4	4
456	Anaerobic Digestion of Lignocellulose Components: Challenges and Novel Approaches. Energies, 2022, 15, 8413.	1.6	7
457	Onsite anaerobic treatment of tomato plant waste as a renewable source of energy and biofertilizer under desert conditions. Bioresource Technology Reports, 2022, 20, 101274.	1.5	1
458	Methane production from ethanolic and acid fermentations of the organic fraction of municipal solid waste under different pH and reaction times. Biochemical Engineering Journal, 2023, 190, 108743.	1.8	0
459	Recent advancements in strategies to improve anaerobic digestion of perennial energy grasses for enhanced methane production. Science of the Total Environment, 2023, 861, 160552.	3.9	14
460	Simulation of integrated anaerobic digestion-gasification systems using machine learning models. Bioresource Technology, 2023, 369, 128420.	4.8	4
461	PROSPECTS OF BIOGAS OBTAINING FROM SWEET SORGHUM IN UKRAINE. NaukovÃ¬ DopovÃ¬dÃ¬ NacÃ¬onalÊ¹nogo UnÃ¬versitetu BÃ¬oresursiv Ã¬ PrirodokoristuvannÃ¢ UkraÃ¯ni, 2022, 2022, .	0.1	0
462	A thermostable bacterial catalase-peroxidase oxidizes phenolic compounds derived from lignins. Applied Microbiology and Biotechnology, 2023, 107, 201-217.	1.7	8
463	Influence of Different Pretreatment Methods and Conditions on the Anaerobic Digestion Efficiency of Spent Mushroom Substrate. Sustainability, 2022, 14, 15854.	1.6	2
464	Dry Anaerobic Digestion of Brewerâ€™s Spent Grains toward a More Sustainable Brewery: Operational Performance, Kinetic Analysis, and Bioenergy Potential. Fermentation, 2023, 9, 2.	1.4	7
465	Definition of the Thermodynamic Cycle of a Biomass-Fueled Internal Combustion Engine. Energies, 2023, 16, 896.	1.6	0
466	Leach bed reactors for production of short-chain fatty acids: A review of critical operating parameters, current limitations and challenges, and prospects. Chemical Engineering Journal, 2023, 456, 141044.	6.6	4
467	Prediction of thermal degradation of biopolymers in biomass under pyrolysis atmosphere by means of machine learning. Renewable Energy, 2023, 204, 774-787.	4.3	4
468	Utilization of Wheat and Maize Waste as Biofuel Source. Clean Energy Production Technologies, 2023, , 27-66.	0.3	2
469	Effect of inoculum composition on the microbial community involved in the anaerobic digestion of sugarcane bagasse. Environmental Technology (United Kingdom), 0, , 1-13.	1.2	1
470	Physico-chemical characterization of decomposing banana, pomegranate and mandarin peels in water and soil for a sustainable valorization. Industrial Crops and Products, 2023, 193, 116207.	2.5	3
471	A review on regeneration of biowaste into bio-products and bioenergy: Life cycle assessment and circular economy. Fuel, 2023, 338, 127221.	3.4	19
472	Closing the Nutrient Loopâ€"The New Approaches to Recovering Biomass Minerals during the Biorefinery Processes. International Journal of Environmental Research and Public Health, 2023, 20, 2096.	1.2	2

#	Article	IF	Citations
473	Production of biogas via anaerobic digestion. , 2023, , 253-311.		0
474	A comprehensive review on biogas production from lignocellulosic wastes through anaerobic digestion: An insight into performance improvement strategies. Fuel, 2023, 340, 127239.	3.4	28
475	Introductory Chapter: Introduction to Structure Properties and Application of Lignin. , 0, , .		0
476	Optimization of integrated anaerobic digestion and pyrolysis for biogas, biochar and bio-oil production from the perspective of energy flow. Science of the Total Environment, 2023, 872, 162154.	3.9	4
477	pH-Based Control of Anaerobic Digestion to Maximise Ammonium Production in Liquid Digestate. Water (Switzerland), 2023, 15, 417.	1.2	2
478	Using thermodynamic models for bioenergy recovery and generation assessment: a case study with aÃ§aÃ-and macaÃºba by-products. Biomass Conversion and Biorefinery, 0, , .	2.9	3
479	Sustainable management of unavoidable biomass wastes. , 2023, 1, 100005.		16
480	Characterization of the Dynamic Changes of Ruminal Microbiota Colonizing Citrus Pomace Waste during Rumen Incubation for Volatile Fatty Acid Production. Microbiology Spectrum, 2023, 11, .	1.2	2
481	Subcritical Water Pretreatment for Anaerobic Digestion Enhancement: A Review. Pertanika Journal of Science and Technology, 2023, 31, 1011-1034.	0.3	0
482	EFFECTS OF TEXTILE WASTEWATER PRE-TREATMENT ON LIGNOCELLULOSIC BIOMASS FOR SOLID-STATE ANAEROBIC DIGESTION. FUDMA Journal of Sciences, 2023, 7, 156-164.	0.1	0
483	Biogas from lignocellulosic feedstock: A review on the main pretreatments, inocula and operational variables involved in anaerobic reactor efficiency. International Journal of Hydrogen Energy, 2023, 48, 20613-20632.	3.8	11
484	Electrical Energy Production Using Biomass. New & Renewable Energy, 2023, 19, 12-21.	0.1	0
485	Decoding Anaerobic Digestion: A Holistic Analysis of Biomass Waste Technology, Process Kinetics, and Operational Variables. Energies, 2023, 16, 3378.	1.6	10
486	Introduction to bioenergy. , 2023, , .		0
487	Anaerobic Codigestion of Tuber Waste and Fruit Waste: Synergy and Enhanced Biogas Production. International Journal of Chemical Engineering, 2023, 2023, 1-10.	1.4	2
488	Abundance, variety, and scope of value-added utilization of agricultural crop residue. , 2023, , 247-272.		0
489	Introduction to biomass and features. , 2023, , .		0
490	Integrated biorefineries: The path forward. , 2023, , 267-304.		0

#	Article	IF	Citations
491	Current status of lignocellulosic biofuel production systemâ€"an overview. , 2023, , 3-19.		0
492	Biomass Conversion by Hydrothermal Liquefaction Technology. , 2023, , .		0
515	Utilization of woody biomass for biogas production. , 2024, , 103-123.		0
523	Forest Biomass as an Energy Resource. Green Energy and Technology, 2024, , 171-207.	0.4	0
524	From Organic Waste to Renewable Energy: Rice Straw. Clean Energy Production Technologies, 2024, , 31-50.	0.3	0
528	Biomass composting with gaseous carbon dioxide capture. , 2024, 2, 621-625.		0
529	Dry reforming of methane from biogas. , 2024, , 423-459.		0
536	Biomass feedstock: A sustainable and renewable source of energy production. , 2024, , 1-34.		0
537	Augmentation of biomass digestion under optimal conditions for bioenergy production. , 2024, , 267-306.		0