

## List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Nutrient recovery from wastewater streams by microalgae: Status and prospects. Renewable and Sustainable Energy Reviews, 2013, 19, 360-369.	16.4	1,200
2	Pretreatment of lignocellulosic biomass for enhanced biogas production. Progress in Energy and Combustion Science, 2014, 42, 35-53.	31.2	1,023
3	Solid-state anaerobic digestion for methane production from organic waste. Renewable and Sustainable Energy Reviews, 2011, 15, 821-826.	16.4	788
4	Anaerobic digestion of food waste – Challenges and opportunities. Bioresource Technology, 2018, 247, 1047-1058.	9.6	626
5	Fungal pretreatment of lignocellulosic biomass. Biotechnology Advances, 2012, 30, 1447-1457.	11.7	426
6	Enhanced solid-state anaerobic digestion of corn stover by alkaline pretreatment. Bioresource Technology, 2010, 101, 7523-7528.	9.6	319
7	Progress and perspectives in converting biogas to transportation fuels. Renewable and Sustainable Energy Reviews, 2014, 40, 1133-1152.	16.4	315
8	Challenges and strategies for solid-state anaerobic digestion of lignocellulosic biomass. Renewable and Sustainable Energy Reviews, 2015, 44, 824-834.	16.4	305
9	Solid state anaerobic co-digestion of yard waste and food waste for biogas production. Bioresource Technology, 2013, 127, 275-280.	9.6	301
10	Comparison of solid-state to liquid anaerobic digestion of lignocellulosic feedstocks for biogas production. Bioresource Technology, 2012, 124, 379-386.	9.6	280
11	Characterization of Crude Glycerol from Biodiesel Plants. Journal of Agricultural and Food Chemistry, 2012, 60, 5915-5921.	5.2	227
12	Improving the sustainability of organic waste management practices in the food-energy-water nexus: A comparative review of anaerobic digestion and composting. Renewable and Sustainable Energy Reviews, 2018, 89, 151-167.	16.4	220
13	Value-added processing of crude glycerol into chemicals and polymers. Bioresource Technology, 2016, 215, 144-154.	9.6	213
14	Methane production from solid-state anaerobic digestion ofÂlignocellulosic biomass. Biomass and Bioenergy, 2012, 46, 125-132.	5.7	211
15	Beyond land application: Emerging technologies for the treatment and reuse of anaerobically digested agricultural and food waste. Waste Management, 2015, 44, 94-115.	7.4	207
16	Solid-state anaerobic digestion of lignocellulosic biomass: Recent progress and perspectives. Bioresource Technology, 2016, 205, 239-249.	9.6	204
17	Microbial pretreatment of corn stover with Ceriporiopsis subvermispora for enzymatic hydrolysis and ethanol production. Bioresource Technology, 2010, 101, 6398-6403.	9.6	200
18	Evaluation of methane production and macronutrient degradation in the anaerobic co-digestion of algae biomass residue and lipid waste. Bioresource Technology, 2012, 111, 42-48.	9.6	182

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19	Production and characterization of biopolyols and polyurethane foams from crude glycerol based liquefaction of soybean straw. Bioresource Technology, 2012, 103, 227-233.	9.6	179
20	Semi-continuous anaerobic co-digestion of thickened waste activated sludge and fat, oil and grease. Waste Management, 2011, 31, 1752-1758.	7.4	178
21	Liquid hot water and alkaline pretreatment of soybean straw for improving cellulose digestibility. Bioresource Technology, 2011, 102, 6254-6259.	9.6	171
22	Enhancing the solid-state anaerobic digestion of fallen leaves through simultaneous alkaline treatment. Bioresource Technology, 2011, 102, 8828-8834.	9.6	163
23	Effectiveness of microbial pretreatment by Ceriporiopsis subvermispora on different biomass feedstocks. Bioresource Technology, 2011, 102, 7507-7512.	9.6	155
24	Polyols and Polyurethanes from the Liquefaction of Lignocellulosic Biomass. ChemSusChem, 2014, 7, 66-72.	6.8	152
25	Microbial delignification of corn stover by Ceriporiopsis subvermispora for improving cellulose digestibility. Enzyme and Microbial Technology, 2010, 47, 31-36.	3.2	145
26	Cultivation of Nannochloropsis salina using anaerobic digestion effluent as a nutrient source for biofuel production. Applied Energy, 2013, 108, 486-492.	10.1	142
27	Lactic acid production from corn stover using mixed cultures of Lactobacillus rhamnosus and Lactobacillus brevis. Bioresource Technology, 2011, 102, 1831-1836.	9.6	128
28	Biological conversion of methane to liquid fuels: Status and opportunities. Biotechnology Advances, 2014, 32, 1460-1475.	11.7	123
29	Reactor performance and microbial community dynamics during solid-state anaerobic digestion of corn stover at mesophilic and thermophilic conditions. Bioresource Technology, 2013, 136, 574-581.	9.6	116
30	Comparison of different liquid anaerobic digestion effluents as inocula and nitrogen sources for solid-state batch anaerobic digestion of corn stover. Waste Management, 2013, 33, 26-32.	7.4	109
31	Biological conversion of biogas to methanol using methanotrophs isolated from solid-state anaerobic digestate. Bioresource Technology, 2016, 201, 50-57.	9.6	107
32	Predicting the methane yield of lignocellulosic biomass in mesophilic solid-state anaerobic digestion based on feedstock characteristics and process parameters. Bioresource Technology, 2014, 173, 168-176.	9.6	105
33	Comparison of the microbial communities in solid-state anaerobic digestion (SS-AD) reactors operated at mesophilic and thermophilic temperatures. Applied Microbiology and Biotechnology, 2015, 99, 969-980.	3.6	104
34	Two-step sequential liquefaction of lignocellulosic biomass by crude glycerol for the production of polyols and polyurethane foams. Bioresource Technology, 2014, 161, 410-415.	9.6	101
35	Thermochemical conversion of crude glycerol to biopolyols for the production of polyurethane foams. Bioresource Technology, 2013, 139, 323-329.	9.6	100
36	Solid-state anaerobic co-digestion of hay and soybean processing waste for biogas production. Bioresource Technology, 2014, 154, 240-247.	9.6	100

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37	Solid-state co-digestion of expired dog food and corn stover for methane production. Bioresource Technology, 2012, 118, 219-226.	9.6	99
38	Highly active and stable Ni-based bimodal pore catalyst for dry reforming of methane. Applied Catalysis A: General, 2015, 491, 116-126.	4.3	94
39	Solid-state anaerobic digestion of spent wheat straw from horse stall. Bioresource Technology, 2011, 102, 9432-9437.	9.6	92
40	A mass diffusion-based interpretation of the effect of total solids content on solid-state anaerobic digestion of cellulosic biomass. Bioresource Technology, 2014, 167, 178-185.	9.6	88
41	Giant reed: A competitive energy crop in comparison with miscanthus. Renewable and Sustainable Energy Reviews, 2016, 54, 350-362.	16.4	86
42	Fungal pretreatment of yard trimmings for enhancement of methane yield from solid-state anaerobic digestion. Bioresource Technology, 2014, 156, 176-181.	9.6	85
43	Succinic Acid Production from Cheese Whey using Actinobacillus succinogenes 130 Z. Applied Biochemistry and Biotechnology, 2008, 145, 111-119.	2.9	83
44	Comparison of Synechocystis sp. PCC6803 and Nannochloropsis salina for lipid production using artificial seawater and nutrients from anaerobic digestion effluent. Bioresource Technology, 2013, 144, 255-260.	9.6	81
45	Solid-state anaerobic co-digestion of spent mushroom substrate with yard trimmings and wheat straw for biogas production. Bioresource Technology, 2014, 169, 468-474.	9.6	81
46	Fungal pretreatment of unsterilized yard trimmings for enhanced methane production by solid-state anaerobic digestion. Bioresource Technology, 2014, 158, 248-252.	9.6	74
47	Effects of microbial and non-microbial factors of liquid anaerobic digestion effluent as inoculum on solid-state anaerobic digestion of corn stover. Bioresource Technology, 2014, 157, 188-196.	9.6	72
48	Comparison of liquid hot water and alkaline pretreatments of giant reed for improved enzymatic digestibility and biogas energy production. Bioresource Technology, 2016, 216, 60-68.	9.6	72
49	Polyols and polyurethane foams from base-catalyzed liquefaction of lignocellulosic biomass by crude glycerol: Effects of crude glycerol impurities. Industrial Crops and Products, 2014, 57, 188-194.	5.2	71
50	Separate and Concentrate Lactic Acid Using Combination of Nanofiltration and Reverse Osmosis Membranes. Applied Biochemistry and Biotechnology, 2008, 147, 1-9.	2.9	70
51	Effect of hot water extraction and liquid hot water pretreatment on the fungal degradation of biomass feedstocks. Bioresource Technology, 2011, 102, 9788-9793.	9.6	67
52	Anaerobic digestion of giant reed for methane production. Bioresource Technology, 2014, 171, 233-239.	9.6	65
53	Mathematical modeling of solid-state anaerobic digestion. Progress in Energy and Combustion Science, 2015, 51, 49-66.	31.2	65
54	The NAC transcription factor OsSWN1 regulates secondary cell wall development in Oryza sativa. Journal of Plant Biology, 2015, 58, 44-51.	2.1	63

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55	A novel 2,5-furandicarboxylic acid-based bis(cyclic carbonate) for the synthesis of biobased non-isocyanate polyurethanes. RSC Advances, 2017, 7, 37-46.	3.6	63
56	Liquefaction of crop residues for polyol production. BioResources, 2006, 1, 248-256.	1.0	60
57	Bio-based Polyols and Polyurethanes. Springer Briefs in Molecular Science, 2015, , .	0.1	58
58	Effects of total ammonia nitrogen concentration on solid-state anaerobic digestion of corn stover. Bioresource Technology, 2013, 144, 281-287.	9.6	57
59	Synthesis and Characterization of Polyols and Polyurethane Foams from PET Waste and Crude Clycerol. Journal of Polymers and the Environment, 2014, 22, 318-328.	5.0	57
60	Effect of limited air exposure and comparative performance between thermophilic and mesophilic solid-state anaerobic digestion of switchgrass. Bioresource Technology, 2015, 180, 296-303.	9.6	57
61	Fungal Pretreatment of Albizia Chips for Enhanced Biogas Production by Solid-State Anaerobic Digestion. Energy & Fuels, 2015, 29, 200-204.	5.1	54
62	Solid-state anaerobic digestion of fungal pretreated Miscanthus sinensis harvested in two different seasons. Bioresource Technology, 2015, 185, 211-217.	9.6	52
63	Biodegradability of crude glycerol-based polyurethane foams during composting, anaerobic digestion and soil incubation. Polymer Degradation and Stability, 2014, 102, 195-203.	5.8	51
64	Isolation of a methanotroph from a hydrogen sulfide-rich anaerobic digester for methanol production from biogas. Process Biochemistry, 2016, 51, 838-844.	3.7	51
65	Conversion of Lignocellulosic Biomass Into Platform Chemicals for Biobased Polyurethane Application. Advances in Bioenergy, 2018, 3, 161-213.	1.3	51
66	Hydrogen sulfide removal from biogas by bio-based iron sponge. Biosystems Engineering, 2013, 114, 55-59.	4.3	50
67	Polyurethane foams based on crude glycerol-derived biopolyols: One-pot preparation of biopolyols with branched fatty acid ester chains and its effects on foam formation and properties. Polymer, 2014, 55, 6529-6538.	3.8	50
68	Fungal pretreatment of non-sterile miscanthus for enhanced enzymatic hydrolysis. Bioresource Technology, 2016, 203, 118-123.	9.6	48
69	Effect of outdoor conditions on Nannochloropsis salina cultivation in artificial seawater using nutrients from anaerobic digestion effluent. Bioresource Technology, 2014, 152, 154-161.	9.6	47
70	Impact of different ratios of feedstock to liquid anaerobic digestion effluent on the performance and microbiome of solid-state anaerobic digesters digesting corn stover. Bioresource Technology, 2016, 200, 744-752.	9.6	47
71	Bio-polyols synthesized from crude glycerol and applications on polyurethane wood adhesives. Industrial Crops and Products, 2017, 108, 798-805.	5.2	47
72	Sequential batch thermophilic solid-state anaerobic digestion of lignocellulosic biomass via recirculating digestate as inoculum – Part II: Microbial diversity and succession. Bioresource Technology, 2017, 241, 1027-1035.	9.6	47

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73	Biological treatment of organic materials for energy and nutrients production—Anaerobic digestion and composting. Advances in Bioenergy, 2019, , 121-181.	1.3	47
74	Comparison of digestate from solid anaerobic digesters and dewatered effluent from liquid anaerobic digesters as inocula for solid state anaerobic digestion of yard trimmings. Bioresource Technology, 2016, 200, 753-760.	9.6	46
75	Effect of alkaline pretreatment on photo-fermentative hydrogen production from giant reed: Comparison of NaOH and Ca(OH)2. Bioresource Technology, 2020, 304, 123001.	9.6	46
76	Comparison of solid-state anaerobic digestion and composting of yard trimmings with effluent from liquid anaerobic digestion. Bioresource Technology, 2014, 169, 439-446.	9.6	45
77	Comparison of sodium hydroxide and calcium hydroxide pretreatments of giant reed for enhanced enzymatic digestibility and methane production. Bioresource Technology, 2017, 244, 1150-1157.	9.6	45
78	Biogas energy production from tropical biomass wastes by anaerobic digestion. Bioresource Technology, 2014, 169, 38-44.	9.6	42
79	Cultivation of marine microalgae using shale gas flowback water and anaerobic digestion effluent as the cultivation medium. Bioresource Technology, 2015, 191, 146-156.	9.6	42
80	Synthesis of tungsten carbide nanoparticles in biochar matrix as a catalyst for dry reforming of methane to syngas. Catalysis Science and Technology, 2015, 5, 3270-3280.	4.1	42
81	Recent advances of "soft―bio-polycarbonate plastics from carbon dioxide and renewable bio-feedstocks via straightforward and innovative routes. Journal of CO2 Utilization, 2019, 34, 40-52.	6.8	42
82	Value-added conversion of waste cooking oil and post-consumer PET bottles into biodiesel and polyurethane foams. Waste Management, 2016, 52, 360-366.	7.4	41
83	Comparison of alkaline- and fungi-assisted wet-storage of corn stover. Bioresource Technology, 2012, 109, 98-104.	9.6	40
84	Biogas reforming of carbon dioxide to syngas production over Ni-Mg-Al catalysts. Molecular Catalysis, 2017, 436, 248-258.	2.0	39
85	Integration of Shiitake cultivation and solid-state anaerobic digestion for utilization of woody biomass. Bioresource Technology, 2015, 182, 128-135.	9.6	38
86	Effect of urea addition on giant reed ensilage and subsequent methane production by anaerobic digestion. Bioresource Technology, 2015, 192, 682-688.	9.6	38
87	Separation of cells and proteins from fermentation broth using ultrafiltration. Journal of Food Engineering, 2006, 75, 574-580.	5.2	37
88	A theoretical derivation of the Contois equation for kinetic modeling of the microbial degradation of insoluble substrates. Biochemical Engineering Journal, 2014, 82, 134-138.	3.6	36
89	Integration of biological kinetics and computational fluid dynamics to model the growth of <i>Nannochloropsis salina</i> in an open channel raceway. Biotechnology and Bioengineering, 2015, 112, 923-933.	3.3	33
90	Comparison between ensilage and fungal pretreatment for storage of giant reed and subsequent methane production. Bioresource Technology, 2016, 209, 246-253.	9.6	32

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91	Development and evaluation of a trickle bed bioreactor for enhanced mass transfer and methanol production from biogas. Biochemical Engineering Journal, 2017, 122, 103-114.	3.6	31
92	Techno-economic analyses of solid-state anaerobic digestion and composting of yard trimmings. Waste Management, 2019, 85, 405-416.	7.4	31
93	Synthesis and properties of polyurethane wood adhesives derived from crude glycerol-based polyols. International Journal of Adhesion and Adhesives, 2017, 79, 67-72.	2.9	30
94	Polyols and Polyurethanes from Vegetable Oils and Their Derivatives. Springer Briefs in Molecular Science, 2015, , 15-43.	0.1	29
95	Comparison of premixing methods for solid-state anaerobic digestion of corn stover. Bioresource Technology, 2015, 175, 430-435.	9.6	29
96	Development of blend films from soy meal protein and crude glycerol-based waterborne polyurethane. Industrial Crops and Products, 2015, 67, 11-17.	5.2	28
97	Effect of harvest date on Arundo donax L. (giant reed) composition, ensilage performance, and enzymatic digestibility. Bioresource Technology, 2016, 205, 97-103.	9.6	28
98	Methanol Production from Biogas with a Thermotolerant Methanotrophic Consortium Isolated from an Anaerobic Digestion System. Energy & Fuels, 2017, 31, 2970-2975.	5.1	28
99	Lactic Acid Production from Cheese Whey by Immobilized Bacteria. Applied Biochemistry and Biotechnology, 2005, 122, 0529-0540.	2.9	27
100	Effect of sucrose on dynamic mechanical characteristics of maize and potato starch films. Carbohydrate Polymers, 2009, 76, 239-243.	10.2	26
101	Lactic Acid Recovery From Cheese Whey Fermentation Broth Using Combined Ultrafiltration and Nanofiltration Membranes. Applied Biochemistry and Biotechnology, 2006, 132, 985-996.	2.9	25
102	Comparative study of changes in composition and structure during sequential fungal pretreatment of non-sterile lignocellulosic feedstocks. Industrial Crops and Products, 2019, 133, 383-394.	5.2	24
103	Thermal, Mechanical, and Morphological Properties of Rigid Crude Glycerolâ€Based Polyurethane Foams Reinforced With Nanoclay and Microcrystalline Cellulose. European Journal of Lipid Science and Technology, 2018, 120, 1700413.	1.5	23
104	Synthesis and process optimization of soybean oil-based terminal epoxides for the production of new biodegradable polycarbonates via the intergration of CO 2. Industrial Crops and Products, 2017, 99, 34-40.	5.2	22
105	Effect of Feedstock Components on Thermophilic Solid-State Anaerobic Digestion of Yard Trimmings. Energy & Fuels, 2015, 29, 3699-3706.	5.1	21
106	Effect of water content on thermal behaviors of common buckwheat flour and starch. Journal of Food Engineering, 2009, 93, 242-248.	5.2	20
107	Co-production of Lactic Acid and Lactobacillus rhamnosus Cells from Whey Permeate with Nutrient Supplements. Food and Bioprocess Technology, 2012, 5, 1278-1286.	4.7	20
108	Sequential batch thermophilic solid-state anaerobic digestion of lignocellulosic biomass via recirculating digestate as inoculum – Part I: Reactor performance. Bioresource Technology, 2017, 236, 186-193.	9.6	19

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109	Sustainable Approach for the Synthesis of Biopolycarbonates from Carbon Dioxide and Soybean Oil. ACS Sustainable Chemistry and Engineering, 2017, 5, 9014-9022.	6.7	17
110	Enzymatic Digestibility of Corn Stover Fractions in Response to Fungal Pretreatment. Industrial & Engineering Chemistry Research, 2012, 51, 7153-7159.	3.7	16
111	Phosphorus Removal and Recovery From Anaerobic Digestion Residues. Advances in Bioenergy, 2018, , 77-136.	1.3	16
112	Production of polyols and waterborne polyurethane dispersions from biodieselâ€derived crude glycerol. Journal of Applied Polymer Science, 2015, 132, .	2.6	15
113	Effect of total solids content on giant reed ensilage and subsequent anaerobic digestion. Process Biochemistry, 2016, 51, 73-79.	3.7	14
114	Innovative sustainable conversion from CO2 and biodiesel-based crude glycerol waste to bio-based polycarbonates. Journal of CO2 Utilization, 2019, 34, 198-206.	6.8	13
115	Microbial Lactic Acid Production from Renewable Resources. , 2010, , 211-228.		12
116	Polyols and polyurethane foams from acid atalyzed biomass liquefaction by crude glycerol: Effects of crude glycerol impurities. Journal of Applied Polymer Science, 2014, 131, .	2.6	12
117	Effects of outdoor dry bale storage conditions on corn stover and the subsequent biogas production from anaerobic digestion. Renewable Energy, 2019, 134, 276-283.	8.9	12
118	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.	8.9	12
119	White-rot fungi: the key to sustainable biofuel production?. Biofuels, 2013, 4, 247-250.	2.4	10
120	Fractal-like kinetics of the solid-state anaerobic digestion. Waste Management, 2016, 53, 55-61.	7.4	10
121	Integration of algae cultivation to anaerobic digestion for biofuel and bioenergy production. Advances in Bioenergy, 2021, , 199-300.	1.3	10
122	Concentration of ammoniacal nitrogen in effluent from wet scrubbers using reverse osmosis membrane. Biosystems Engineering, 2011, 109, 235-240.	4.3	9
123	Corrosion Protection Studies of Crude Glycerol-Based Waterborne Polyurethane Coating on Steel Substrate. Journal of the Electrochemical Society, 2016, 163, C54-C61.	2.9	9
124	Recovery of failed solid-state anaerobic digesters. Bioresource Technology, 2016, 214, 866-870.	9.6	8
125	Development of polyurethane foam and its potential within the biofuels market. Biofuels, 2011, 2, 357-359.	2.4	7
126	Introduction to Bio-based Polyols and Polyurethanes. Springer Briefs in Molecular Science, 2015, , 1-13.	0.1	5

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127	Anaerobic Digestion of Food Waste for Bioenergy Production. , 2019, , 530-537.		4
128	Bio-based polycarbonates from renewable feedstocks and carbon dioxide. Advances in Bioenergy, 2019, , 183-208.	1.3	4
129	Solid-State Biological Pretreatment of Lignocellulosic Biomass. Springer Briefs in Molecular Science, 2013, , 67-86.	0.1	3
130	Lignocellulosic Biomass-Based Polyols for Polyurethane Applications. Springer Briefs in Molecular Science, 2015, , 45-64.	0.1	1
131	Polyols and Polyurethanes from Protein-Based Feedstocks. Springer Briefs in Molecular Science, 2015, , 65-79.	0.1	1
132	Draft Genome Sequence of Methylocaldum sp. Strain 14B, an Obligate Hydrogen Sulfide-Tolerant Methanotrophic Strain That Can Convert Biogas to Methanol. Genome Announcements, 2017, 5, .	0.8	1
133	Arrested methanogenesis: Principles, practices, and perspectives. Advances in Bioenergy, 2022, , .	1.3	1
134	Comparison of Horse Mulch to Wheat Straw as Feedstocks for Solid-State Anaerobic Digestion. , 2011, , .		0
135	Draft Genome Sequence of <i>Methylocaldum</i> sp. SAD2, a Methanotrophic Strain That Can Convert Raw Biogas to Methanol in the Presence of Hydrogen Sulfide. Genome Announcements, 2017, 5, .	0.8	0
136	The application of the fractal-like kinetics to solid-state anaerobic digestion. Proceedings of the Water Environment Federation, 2016, 2016, 46-54.	0.0	0