

Irini Angelidaki

List of Publications by Year in descending order

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442
papers

39,626
citations

2318

98
h-index

4427

172
g-index

451
all docs

451
docs citations

451
times ranked

19999
citing authors

#	ARTICLE	IF	CITATIONS
1	The IWA Anaerobic Digestion Model No 1 (ADM1). <i>Water Science and Technology</i> , 2002, 45, 65-73.	1.2	1,582
2	Defining the biomethane potential (BMP) of solid organic wastes and energy crops: a proposed protocol for batch assays. <i>Water Science and Technology</i> , 2009, 59, 927-934.	1.2	1,417
3	ANAEROBIC DIGESTION OF SWINE MANURE: INHIBITION BY AMMONIA. <i>Water Research</i> , 1998, 32, 5-12.	5.3	959
4	Biogas upgrading and utilization: Current status and perspectives. <i>Biotechnology Advances</i> , 2018, 36, 452-466.	6.0	885
5	Production of bioethanol from wheat straw: An overview on pretreatment, hydrolysis and fermentation. <i>Bioresource Technology</i> , 2010, 101, 4744-4753.	4.8	860
6	Assessment of the anaerobic biodegradability of macropollutants. <i>Reviews in Environmental Science and Biotechnology</i> , 2004, 3, 117-129.	3.9	769
7	Bioethanol, biohydrogen and biogas production from wheat straw in a biorefinery concept. <i>Bioresource Technology</i> , 2009, 100, 2562-2568.	4.8	629
8	Towards a standardization of biomethane potential tests. <i>Water Science and Technology</i> , 2016, 74, 2515-2522.	1.2	592
9	Thermophilic anaerobic digestion of livestock waste: the effect of ammonia. <i>Applied Microbiology and Biotechnology</i> , 1993, 38, 560.	1.7	582
10	Influence of Environmental Conditions on Methanogenic Compositions in Anaerobic Biogas Reactors. <i>Applied and Environmental Microbiology</i> , 2005, 71, 331-338.	1.4	428
11	Method for determination of methane potentials of solid organic waste. <i>Waste Management</i> , 2004, 24, 393-400.	3.7	418
12	Microalgal carbohydrates: an overview of the factors influencing carbohydrates production, and of main bioconversion technologies for production of biofuels. <i>Applied Microbiology and Biotechnology</i> , 2012, 96, 631-645.	1.7	399
13	Hydrogen and methane production from household solid waste in the two-stage fermentation process. <i>Water Research</i> , 2006, 40, 2230-2236.	5.3	375
14	Acetate Oxidation Is the Dominant Methanogenic Pathway from Acetate in the Absence of Methanosaetaceae. <i>Applied and Environmental Microbiology</i> , 2006, 72, 5138-5141.	1.4	357
15	Anaerobic thermophilic digestion of manure at different ammonia loads: Effect of temperature. <i>Water Research</i> , 1994, 28, 727-731.	5.3	355
16	A mathematical model for dynamic simulation of anaerobic digestion of complex substrates: Focusing on ammonia inhibition. <i>Biotechnology and Bioengineering</i> , 1993, 42, 159-166.	1.7	343
17	Microbial electrolysis cells turning to be versatile technology: Recent advances and future challenges. <i>Water Research</i> , 2014, 56, 11-25.	5.3	334
18	A comprehensive model of anaerobic bioconversion of complex substrates to biogas. , 1999, 63, 363-372.		298

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19	Codigestion of Manure and Organic Wastes in Centralized Biogas Plants: Status and Future Trends. <i>Applied Biochemistry and Biotechnology</i> , 2003, 109, 95-106.	1.4	287
20	Biogas Upgrading via Hydrogenotrophic Methanogenesis in Two-Stage Continuous Stirred Tank Reactors at Mesophilic and Thermophilic Conditions. <i>Environmental Science & Technology</i> , 2015, 49, 12585-12593.	4.6	287
21	Effects of free long-chain fatty acids on thermophilic anaerobic digestion. <i>Applied Microbiology and Biotechnology</i> , 1992, 37, 808.	1.7	285
22	Biomethanation and Its Potential. <i>Methods in Enzymology</i> , 2011, 494, 327-351.	0.4	277
23	Effects of lipids on thermophilic anaerobic digestion and reduction of lipid inhibition upon addition of bentonite. <i>Applied Microbiology and Biotechnology</i> , 1990, 33, 469-72.	1.7	276
24	Integrated biogas upgrading and hydrogen utilization in an anaerobic reactor containing enriched hydrogenotrophic methanogenic culture. <i>Biotechnology and Bioengineering</i> , 2012, 109, 2729-2736.	1.7	265
25	Ex-situ biogas upgrading and enhancement in different reactor systems. <i>Bioresource Technology</i> , 2017, 225, 429-437.	4.8	249
26	Anaerobic digestion of slaughterhouse by-products. <i>Biomass and Bioenergy</i> , 2009, 33, 1046-1054.	2.9	248
27	Metagenomic analysis and functional characterization of the biogas microbiome using high throughput shotgun sequencing and a novel binning strategy. <i>Biotechnology for Biofuels</i> , 2016, 9, 26.	6.2	248
28	Effects of mixing on methane production during thermophilic anaerobic digestion of manure: Lab-scale and pilot-scale studies. <i>Bioresource Technology</i> , 2008, 99, 4919-4928.	4.8	237
29	Anammox for ammonia removal from pig manure effluents: Effect of organic matter content on process performance. <i>Bioresource Technology</i> , 2009, 100, 2171-2175.	4.8	229
30	Thermophilic fermentative hydrogen production by the newly isolated <i>Thermoanaerobacterium thermosaccharolyticum</i> PSU-2. <i>International Journal of Hydrogen Energy</i> , 2008, 33, 1204-1214.	3.8	227
31	Simultaneous hydrogen utilization and in situ biogas upgrading in an anaerobic reactor. <i>Biotechnology and Bioengineering</i> , 2012, 109, 1088-1094.	1.7	224
32	An Overview of Electron Acceptors in Microbial Fuel Cells. <i>Frontiers in Microbiology</i> , 2017, 8, 643.	1.5	224
33	State indicators for monitoring the anaerobic digestion process. <i>Water Research</i> , 2010, 44, 5973-5980.	5.3	222
34	Strategies for optimizing recovery of the biogas process following ammonia inhibition. <i>Bioresource Technology</i> , 2008, 99, 7995-8001.	4.8	217
35	Amino acids production focusing on fermentation technologies – A review. <i>Biotechnology Advances</i> , 2018, 36, 14-25.	6.0	205
36	Enhancement of bioenergy production from organic wastes by two-stage anaerobic hydrogen and methane production process. <i>Bioresource Technology</i> , 2011, 102, 8700-8706.	4.8	204

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37	Effect of ammonium and acetate on methanogenic pathway and methanogenic community composition. <i>FEMS Microbiology Ecology</i> , 2013, 83, 38-48.	1.3	204
38	iTRAQ quantitative proteomic analysis reveals the pathways for methanation of propionate facilitated by magnetite. <i>Water Research</i> , 2017, 108, 212-221.	5.3	204
39	Biogas and its opportunities – A review. <i>Frontiers of Environmental Science and Engineering</i> , 2018, 12, 1.	3.3	201
40	Co-digestion of manure and whey for in situ biogas upgrading by the addition of H ₂ : process performance and microbial insights. <i>Applied Microbiology and Biotechnology</i> , 2013, 97, 1373-1381.	1.7	196
41	Bioaugmentation as a Solution To Increase Methane Production from an Ammonia-Rich Substrate. <i>Environmental Science & Technology</i> , 2014, 48, 7669-7676.	4.6	191
42	Hydrochar-Facilitated Anaerobic Digestion: Evidence for Direct Interspecies Electron Transfer Mediated through Surface Oxygen-Containing Functional Groups. <i>Environmental Science & Technology</i> , 2020, 54, 5755-5766.	4.6	190
43	Long-chain fatty acids inhibition and adaptation process in anaerobic thermophilic digestion: Batch tests, microbial community structure and mathematical modelling. <i>Bioresource Technology</i> , 2010, 101, 2243-2251.	4.8	183
44	Optimization of biogas production by co-digesting whey with diluted poultry manure. <i>Renewable Energy</i> , 2007, 32, 2147-2160.	4.3	182
45	A critical review on livestock manure biorefinery technologies: Sustainability, challenges, and future perspectives. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 135, 110033.	8.2	176
46	Kinetics of thermophilic, anaerobic oxidation of straight and branched chain butyrate and valerate. <i>Biotechnology and Bioengineering</i> , 2003, 84, 195-204.	1.7	174
47	Generation of Electricity and Analysis of Microbial Communities in Wheat Straw Biomass-Powered Microbial Fuel Cells. <i>Applied and Environmental Microbiology</i> , 2009, 75, 3389-3395.	1.4	174
48	Methods for increasing the biogas potential from the recalcitrant organic matter contained in manure. <i>Water Science and Technology</i> , 2000, 41, 189-194.	1.2	169
49	Strategies for recovering inhibition caused by long chain fatty acids on anaerobic thermophilic biogas reactors. <i>Bioresource Technology</i> , 2009, 100, 4588-4596.	4.8	167
50	Microwave and thermal pretreatment as methods for increasing the biogas potential of secondary sludge from municipal wastewater treatment plants. <i>Bioresource Technology</i> , 2013, 134, 290-297.	4.8	166
51	Comparative study of mechanical, hydrothermal, chemical and enzymatic treatments of digested biofibers to improve biogas production. <i>Bioresource Technology</i> , 2010, 101, 8713-8717.	4.8	161
52	Bioethanol Production by Carbohydrate-Enriched Biomass of <i>Arthrospira (Spirulina) platensis</i> . <i>Energies</i> , 2013, 6, 3937-3950.	1.6	160
53	Electricity generation and microbial community response to substrate changes in microbial fuel cell. <i>Bioresource Technology</i> , 2011, 102, 1166-1173.	4.8	159
54	Optimization of H ₂ SO ₄ -catalyzed hydrothermal pretreatment of rapeseed straw for bioconversion to ethanol: Focusing on pretreatment at high solids content. <i>Bioresource Technology</i> , 2009, 100, 3048-3053.	4.8	156

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55	Thermophilic anaerobic co-digestion of oil palm empty fruit bunches with palm oil mill effluent for efficient biogas production. <i>Applied Energy</i> , 2012, 93, 648-654.	5.1	156
56	Antibiotic Resistance Genes and Correlations with Microbial Community and Metal Resistance Genes in Full-Scale Biogas Reactors As Revealed by Metagenomic Analysis. <i>Environmental Science & Technology</i> , 2017, 51, 4069-4080.	4.6	154
57	Improving thermophilic anaerobic digestion of swine manure. <i>Water Research</i> , 1999, 33, 1805-1810.	5.3	151
58	Novel bio-electro-Fenton technology for azo dye wastewater treatment using microbial reverse-electrodialysis electrolysis cell. <i>Bioresource Technology</i> , 2017, 228, 322-329.	4.8	151
59	Strategies for changing temperature from mesophilic to thermophilic conditions in anaerobic CSTR reactors treating sewage sludge. <i>Water Research</i> , 2005, 39, 1481-1488.	5.3	149
60	Importance of temperature and anodic medium composition on microbial fuel cell (MFC) performance. <i>Biotechnology Letters</i> , 2008, 30, 1213-1218.	1.1	148
61	Homoacetogenesis as the alternative pathway for H ₂ sink during thermophilic anaerobic degradation of butyrate under suppressed methanogenesis. <i>Water Research</i> , 2007, 41, 4204-4210.	5.3	146
62	Anaerobic degradation of solid material: Importance of initiation centers for methanogenesis, mixing intensity, and 2D distributed model. <i>Biotechnology and Bioengineering</i> , 2005, 89, 113-122.	1.7	142
63	Dynamics of the anaerobic process: Effects of volatile fatty acids. <i>Biotechnology and Bioengineering</i> , 2003, 82, 791-801.	1.7	140
64	Biohydrogen production in granular up-flow anaerobic sludge blanket (UASB) reactors with mixed cultures under hyper-thermophilic temperature (70°C). <i>Biotechnology and Bioengineering</i> , 2006, 94, 296-302.	1.7	140
65	In-situ biogas upgrading in thermophilic granular UASB reactor: key factors affecting the hydrogen mass transfer rate. <i>Bioresource Technology</i> , 2016, 221, 485-491.	4.8	140
66	Performance and microbial community analysis of the anaerobic reactor with coke oven gas biomethanation and in situ biogas upgrading. <i>Bioresource Technology</i> , 2013, 146, 234-239.	4.8	138
67	Increase of anaerobic degradation of particulate organic matter in full-scale biogas plants by mechanical maceration. <i>Water Science and Technology</i> , 2000, 41, 145-153.	1.2	136
68	Microbial population dynamics in urban organic waste anaerobic co-digestion with mixed sludge during a change in feedstock composition and different hydraulic retention times. <i>Water Research</i> , 2017, 118, 261-271.	5.3	136
69	Environmental life cycle assessment of different biorefinery platforms valorizing municipal solid waste to bioenergy, microbial protein, lactic and succinic acid. <i>Renewable and Sustainable Energy Reviews</i> , 2020, 117, 109493.	8.2	136
70	New insights from the biogas microbiome by comprehensive genome-resolved metagenomics of nearly 1600 species originating from multiple anaerobic digesters. <i>Biotechnology for Biofuels</i> , 2020, 13, 25.	6.2	136
71	Life cycle assessment of biofuel production from brown seaweed in Nordic conditions. <i>Bioresource Technology</i> , 2013, 129, 92-99.	4.8	135
72	A new method for in situ nitrate removal from groundwater using submerged microbial desalination-denitrification cell (SMDDC). <i>Water Research</i> , 2013, 47, 1827-1836.	5.3	135

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73	Simultaneous organic carbon, nutrients removal and energy production in a photomicrobial fuel cell (PFC). <i>Energy and Environmental Science</i> , 2011, 4, 4340.	15.6	134
74	Extreme thermophilic biohydrogen production from wheat straw hydrolysate using mixed culture fermentation: Effect of reactor configuration. <i>Bioresource Technology</i> , 2010, 101, 7789-7796.	4.8	133
75	Acclimation to extremely high ammonia levels in continuous biomethanation process and the associated microbial community dynamics. <i>Bioresource Technology</i> , 2018, 247, 616-623.	4.8	133
76	Bio-electro-Fenton processes for wastewater treatment: Advances and prospects. <i>Chemical Engineering Journal</i> , 2018, 354, 492-506.	6.6	133
77	Deeper insight into the structure of the anaerobic digestion microbial community; the biogas microbiome database is expanded with 157 new genomes. <i>Bioresource Technology</i> , 2016, 216, 260-266.	4.8	132
78	Process performance and comparative metagenomic analysis during co-digestion of manure and lignocellulosic biomass for biogas production. <i>Applied Energy</i> , 2017, 185, 126-135.	5.1	132
79	Pretreatment of lignocelluloses for enhanced biogas production: A review on influencing mechanisms and the importance of microbial diversity. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 135, 110173.	8.2	128
80	Optimization of biogas production from olive-oil mill wastewater, by codigesting with diluted poultry-manure. <i>Applied Energy</i> , 2007, 84, 646-663.	5.1	127
81	Biohydrogen production from xylose at extreme thermophilic temperatures (70°C) by mixed culture fermentation. <i>Water Research</i> , 2009, 43, 1414-1424.	5.3	124
82	Biohydrogen production from wheat straw hydrolysate by dark fermentation using extreme thermophilic mixed culture. <i>Biotechnology and Bioengineering</i> , 2010, 105, 899-908.	1.7	122
83	Metagenomic binning reveals the functional roles of core abundant microorganisms in twelve full-scale biogas plants. <i>Water Research</i> , 2018, 140, 123-134.	5.3	122
84	Bioaugmentation with an acetate-oxidising consortium as a tool to tackle ammonia inhibition of anaerobic digestion. <i>Bioresource Technology</i> , 2013, 146, 57-62.	4.8	121
85	Nanomodification of the electrodes in microbial fuel cell: Impact of nanoparticle density on electricity production and microbial community. <i>Applied Energy</i> , 2014, 116, 216-222.	5.1	120
86	Effect of operating conditions and reactor configuration on efficiency of full-scale biogas plants. <i>Water Science and Technology</i> , 2005, 52, 189-194.	1.2	118
87	Performance and microbial community analysis of two-stage process with extreme thermophilic hydrogen and thermophilic methane production from hydrolysate in UASB reactors. <i>Bioresource Technology</i> , 2011, 102, 4028-4035.	4.8	118
88	Anaerobic co-digestion of desugared molasses with cow manure; focusing on sodium and potassium inhibition. <i>Bioresource Technology</i> , 2011, 102, 1005-1011.	4.8	117
89	In situ Biogas Upgrading by CO ₂ -to-CH ₄ Bioconversion. <i>Trends in Biotechnology</i> , 2021, 39, 336-347.	4.9	116
90	Nutrient recovery from industrial wastewater as single cell protein by a co-culture of green microalgae and methanotrophs. <i>Biochemical Engineering Journal</i> , 2018, 134, 129-135.	1.8	115

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91	Long-term effect of inoculum pretreatment on fermentative hydrogen production by repeated batch cultivations: Homoacetogenesis and methanogenesis as competitors to hydrogen production. <i>Biotechnology and Bioengineering</i> , 2011, 108, 1816-1827.	1.7	114
92	Biogas production from potato-juice, a by-product from potato-starch processing, in upflow anaerobic sludge blanket (UASB) and expanded granular sludge bed (EGSB) reactors. <i>Bioresource Technology</i> , 2011, 102, 5734-5741.	4.8	110
93	Optimization of hydrogen dispersion in thermophilic up-flow reactors for ex situ biogas upgrading. <i>Bioresource Technology</i> , 2017, 234, 310-319.	4.8	110
94	Thermophilic anaerobic digestion of source-sorted organic fraction of household municipal solid waste: Start-up procedure for continuously stirred tank reactor. <i>Water Research</i> , 2006, 40, 2621-2628.	5.3	109
95	Microwave pretreatment of rape straw for bioethanol production: Focus on energy efficiency. <i>Bioresource Technology</i> , 2011, 102, 7937-7940.	4.8	109
96	Deep insights into the network of acetate metabolism in anaerobic digestion: focusing on syntrophic acetate oxidation and homoacetogenesis. <i>Water Research</i> , 2021, 190, 116774.	5.3	109
97	Hollow fiber membrane based H ₂ diffusion for efficient in situ biogas upgrading in an anaerobic reactor. <i>Applied Microbiology and Biotechnology</i> , 2013, 97, 3739-3744.	1.7	108
98	Serial CSTR digester configuration for improving biogas production from manure. <i>Water Research</i> , 2009, 43, 166-172.	5.3	107
99	Submersible microbial fuel cell sensor for monitoring microbial activity and BOD in groundwater: Focusing on impact of anodic biofilm on sensor applicability. <i>Biotechnology and Bioengineering</i> , 2011, 108, 2339-2347.	1.7	106
100	Alkaline peroxide pretreatment of rapeseed straw for enhancing bioethanol production by Same Vessel Saccharification and Co-Fermentation. <i>Bioresource Technology</i> , 2012, 104, 349-357.	4.8	103
101	Electricity production from xylose using a mediator-less microbial fuel cell. <i>Bioresource Technology</i> , 2008, 99, 4178-4184.	4.8	101
102	Microbial diversity and dynamicity of biogas reactors due to radical changes of feedstock composition. <i>Bioresource Technology</i> , 2015, 176, 56-64.	4.8	101
103	Comparative analysis of taxonomic, functional, and metabolic patterns of microbiomes from 14 full-scale biogas reactors by metagenomic sequencing and radioisotopic analysis. <i>Biotechnology for Biofuels</i> , 2016, 9, 51.	6.2	101
104	Ammonia effect on hydrogenotrophic methanogens and syntrophic acetate-oxidizing bacteria. <i>FEMS Microbiology Ecology</i> , 2015, 91, fiv130.	1.3	100
105	Biological caproate production by <i>Clostridium kluyveri</i> from ethanol and acetate as carbon sources. <i>Bioresource Technology</i> , 2017, 241, 638-644.	4.8	100
106	Enhanced bioenergy recovery from rapeseed plant in a biorefinery concept. <i>Bioresource Technology</i> , 2011, 102, 1433-1439.	4.8	99
107	Kinetics and Modeling of Anaerobic Digestion Process. <i>Advances in Biochemical Engineering/Biotechnology</i> , 2003, 81, 57-93.	0.6	98
108	The dominant acetate degradation pathway/methanogenic composition in full-scale anaerobic digesters operating under different ammonia levels. <i>International Journal of Environmental Science and Technology</i> , 2014, 11, 2087-2094.	1.8	98

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109	Applications of the Anaerobic Digestion Process. <i>Advances in Biochemical Engineering/Biotechnology</i> , 2003, 82, 1-33.	0.6	97
110	Optimization of biogas production from wheat straw stillage in UASB reactor. <i>Applied Energy</i> , 2010, 87, 3779-3783.	5.1	96
111	Effect of pH and H ₂ O ₂ dosage on catechol oxidation in nano-Fe ₃ O ₄ catalyzing UV-Fenton and identification of reactive oxygen species. <i>Chemical Engineering Journal</i> , 2014, 244, 1-8.	6.6	96
112	Submersible microbial desalination cell for simultaneous ammonia recovery and electricity production from anaerobic reactors containing high levels of ammonia. <i>Bioresource Technology</i> , 2015, 177, 233-239.	4.8	96
113	Bio-electro-Fenton process for the degradation of Non-Steroidal Anti-Inflammatory Drugs in wastewater. <i>Chemical Engineering Journal</i> , 2018, 338, 401-410.	6.6	96
114	Optimisation of biogas production from manure through serial digestion: Lab-scale and pilot-scale studies. <i>Bioresource Technology</i> , 2009, 100, 701-709.	4.8	95
115	Application of nano-structured materials in anaerobic digestion: Current status and perspectives. <i>Chemosphere</i> , 2019, 229, 188-199.	4.2	95
116	Anaerobic digestion of maize focusing on variety, harvest time and pretreatment. <i>Applied Energy</i> , 2010, 87, 2212-2217.	5.1	94
117	Efficient treatment of aniline containing wastewater in bipolar membrane microbial electrolysis cell-Fenton system. <i>Water Research</i> , 2017, 119, 67-72.	5.3	94
118	Innovative microbial fuel cell for electricity production from anaerobic reactors. <i>Journal of Power Sources</i> , 2008, 180, 641-647.	4.0	93
119	In situ microbial fuel cell-based biosensor for organic carbon. <i>Bioelectrochemistry</i> , 2011, 81, 99-103.	2.4	93
120	Ammonia inhibition on hydrogen enriched anaerobic digestion of manure under mesophilic and thermophilic conditions. <i>Water Research</i> , 2016, 105, 314-319.	5.3	92
121	Codigestion of olive oil mill wastewaters with manure, household waste or sewage sludge. , 1997, 8, 221-226.		91
122	Bioaugmentation with hydrolytic microbes to improve the anaerobic biodegradability of lignocellulosic agricultural residues. <i>Bioresource Technology</i> , 2017, 234, 350-359.	4.8	91
123	Metabolic dependencies govern microbial syntrophies during methanogenesis in an anaerobic digestion ecosystem. <i>Microbiome</i> , 2020, 8, 22.	4.9	91
124	Recovery of ammonia and sulfate from waste streams and bioenergy production via bipolar bioelectrodialysis. <i>Water Research</i> , 2015, 85, 177-184.	5.3	90
125	The effect of different substrates and humic acid on power generation in microbial fuel cell operation. <i>Bioresource Technology</i> , 2009, 100, 1186-1191.	4.8	89
126	A simple and rapid method for monitoring dissolved oxygen in water with a submersible microbial fuel cell (SBMFC). <i>Biosensors and Bioelectronics</i> , 2012, 38, 189-194.	5.3	89

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127	Methane production from formate, acetate and H ₂ /CO ₂ ; focusing on kinetics and microbial characterization. <i>Bioresource Technology</i> , 2016, 218, 796-806.	4.8	89
128	Acclimatization contributes to stable anaerobic digestion of organic fraction of municipal solid waste under extreme ammonia levels: Focusing on microbial community dynamics. <i>Bioresource Technology</i> , 2019, 286, 121376.	4.8	89
129	Commercial cultivation and bioremediation potential of sugar kelp, <i>Saccharina latissima</i> , in Danish waters. <i>Journal of Applied Phycology</i> , 2015, 27, 1963-1973.	1.5	88
130	Mesophilic and thermophilic alkaline fermentation of waste activated sludge for hydrogen production: Focusing on homoacetogenesis. <i>Water Research</i> , 2016, 102, 524-532.	5.3	88
131	Seaweed as innovative feedstock for energy and feed – Evaluating the impacts through a Life Cycle Assessment. <i>Journal of Cleaner Production</i> , 2017, 150, 1-15.	4.6	87
132	Alternate switching between microbial fuel cell and microbial electrolysis cell operation as a new method to control H ₂ O ₂ level in Bioelectro-Fenton system. <i>Journal of Power Sources</i> , 2015, 291, 108-116.	4.0	85
133	Recent developments on biofuels production from microalgae and macroalgae. <i>Renewable and Sustainable Energy Reviews</i> , 2016, 65, 235-249.	8.2	85
134	Bio-electrolytic sensor for rapid monitoring of volatile fatty acids in anaerobic digestion process. <i>Water Research</i> , 2017, 111, 74-80.	5.3	85
135	Process performance and microbial community structure in thermophilic trickling biofilter reactors for biogas upgrading. <i>Science of the Total Environment</i> , 2019, 655, 529-538.	3.9	85
136	Comparison of UASB and EGSB reactors performance, for treatment of raw and deoiled palm oil mill effluent (POME). <i>Journal of Hazardous Materials</i> , 2011, 189, 229-234.	6.5	84
137	Ammonia tolerant inocula provide a good base for anaerobic digestion of microalgae in third generation biogas process. <i>Bioresource Technology</i> , 2017, 225, 272-278.	4.8	84
138	Novel ecological insights and functional roles during anaerobic digestion of saccharides unveiled by genome-centric metagenomics. <i>Water Research</i> , 2019, 151, 271-279.	5.3	83
139	Innovative process scheme for removal of organic matter, phosphorus and nitrogen from pig manure. <i>Water Research</i> , 2008, 42, 4083-4090.	5.3	82
140	Anaerobic Treatment of Manure Together with Industrial Waste. <i>Water Science and Technology</i> , 1992, 25, 311-318.	1.2	80
141	An innovative online VFA monitoring system for the anaerobic process, based on headspace gas chromatography. <i>Biotechnology and Bioengineering</i> , 2007, 96, 712-721.	1.7	80
142	Effect of humic acids on electricity generation integrated with xylose degradation in microbial fuel cells. <i>Biotechnology and Bioengineering</i> , 2008, 100, 413-422.	1.7	80
143	Microbial Electrochemical Monitoring of Volatile Fatty Acids during Anaerobic Digestion. <i>Environmental Science & Technology</i> , 2016, 50, 4422-4429.	4.6	80
144	Anaerobic co-digestion of by-products from sugar production with cow manure. <i>Water Research</i> , 2011, 45, 3473-3480.	5.3	79

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145	Counteracting ammonia inhibition during anaerobic digestion by recovery using submersible microbial desalination cell. <i>Biotechnology and Bioengineering</i> , 2015, 112, 1478-1482.	1.7	79
146	Untangling the Effect of Fatty Acid Addition at Species Level Revealed Different Transcriptional Responses of the Biogas Microbial Community Members. <i>Environmental Science & Technology</i> , 2016, 50, 6079-6090.	4.6	79
147	Potential of Jerusalem artichoke (<i>Helianthus tuberosus</i> L.) as a biorefinery crop. <i>Industrial Crops and Products</i> , 2014, 56, 231-240.	2.5	78
148	Genome-Centric Metatranscriptomics Analysis Reveals the Role of Hydrochar in Anaerobic Digestion of Waste Activated Sludge. <i>Environmental Science & Technology</i> , 2021, 55, 8351-8361.	4.6	77
149	Lessons learnt from 15 years of ICA in anaerobic digesters. <i>Water Science and Technology</i> , 2006, 53, 25-33.	1.2	76
150	Influence of wastewater characteristics on methane potential in food-processing industry wastewaters. <i>Water Research</i> , 2008, 42, 2195-2203.	5.3	76
151	Life cycle assessment of different strategies for energy and nutrient recovery from source sorted organic fraction of household waste. <i>Journal of Cleaner Production</i> , 2018, 180, 360-374.	4.6	76
152	Effect of ammonia on anaerobic digestion of municipal solid waste: Inhibitory performance, bioaugmentation and microbiome functional reconstruction. <i>Chemical Engineering Journal</i> , 2020, 401, 126159.	6.6	76
153	Seasonal variations in the amino acid profile and protein nutritional value of <i>Saccharina latissima</i> cultivated in a commercial IMTA system. <i>Journal of Applied Phycology</i> , 2015, 27, 1991-2000.	1.5	74
154	Co-digestion of food and garden waste with mixed sludge from wastewater treatment in continuously stirred tank reactors. <i>Bioresource Technology</i> , 2016, 206, 245-254.	4.8	73
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#	ARTICLE	IF	CITATIONS
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#	ARTICLE	IF	CITATIONS
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#	ARTICLE	IF	CITATIONS
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