Irini Angelidaki

List of Publications by Year
in descending order

442 papers	39,626 citations	2215 99 h-index	4342 173 g-index
451 all docs	451 docs citations	451 times ranked	19999 citing authors

#	Article	IF	Citations
1	Co-digestion of orange peels and marine seaweed with cattle manure to suppress inhibition from toxicants. Biomass Conversion and Biorefinery, 2022, 12, 3209-3218.	4.6	7
2	When microbial electrochemistry meets UV: The applicability to high-strength real pharmaceutical industry wastewater. Journal of Hazardous Materials, 2022, 423, 127151.	12.4	9
3	Advances in microalgal research for valorization of industrial wastewater. Bioresource Technology, 2022, 343, 126128.	9.6	28
4	Novel bioaugmentation strategy boosted with biochar to alleviate ammonia toxicity in continuous biomethanation. Bioresource Technology, 2022, 343, 126146.	9.6	17
5	Green electricity-driven simultaneous ammonia recovery and in-situ upcycling for microbial protein production. Chemical Engineering Journal, 2022, 430, 132890.	12.7	16
6	Self-sustained ammonium recovery from wastewater and upcycling for hydrogen-oxidizing bacteria-based power-to-protein conversion. Bioresource Technology, 2022, 344, 126271.	9.6	11
7	Elucidation of high removal efficiency of dichlorophen wastewater in anaerobic treatment system with iron/carbon mediator. Journal of Cleaner Production, 2022, 330, 129854.	9.3	12
8	Bridging to circular bioeconomy through a novel biorefinery platform on a wastewater treatment plant. Renewable and Sustainable Energy Reviews, 2022, 154, 111895.	16.4	17
9	Techno-economic assessment of a hybrid forward osmosis and membrane distillation system for agricultural water recovery. Separation and Purification Technology, 2022, 283, 120196.	7.9	21
10	Enhanced fermentative lactic acid production from source-sorted organic household waste: Focusing on low-pH microbial adaptation and bio-augmentation strategy. Science of the Total Environment, 2022, 808, 152129.	8.0	12
11	From renewable energy to sustainable protein sources: Advancement, challenges, and future roadmaps. Renewable and Sustainable Energy Reviews, 2022, 157, 112041.	16.4	24
12	Improving lactic acid production via bio-augmentation with acid-tolerant isolates from source-sorted organic household waste. Biomass Conversion and Biorefinery, 2022, 12, 4449-4461.	4.6	5
13	In-situ biogas upgrading assisted by bioaugmentation with hydrogenotrophic methanogens during mesophilic and thermophilic co-digestion. Bioresource Technology, 2022, 348, 126754.	9.6	22
14	Bioconversion of waste-to-resources (BWR-2021): Valorization of industrial and agro-wastes to fuel, feed, fertilizer, and biobased products. Bioresource Technology, 2022, 347, 126739.	9.6	16
15	H2 competition between homoacetogenic bacteria and methanogenic archaea during biomethanation from a combined experimental-modelling approach. Journal of Environmental Chemical Engineering, 2022, 10, 107281.	6.7	18
16	Going beyond conventional wastewater treatment plants within circular bioeconomy concept â€“ a sustainability assessment study. Water Science and Technology, 2022, 85, 1878-1903.	2.5	6
17	Probiotic strategy for biofouling control through direct injection of quorum-quenching bacteria into membrane bioreactors. Chemical Engineering Journal, 2022, 438, 135572.	12.7	9
18	Innovative co-production of polyhydroxyalkanoates and methane from broken rice. Science of the Total Environment, 2022, 825, 153931.	8.0	11

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19	Ex-situ biogas upgrading in thermophilic trickle bed reactors packed with micro-porous packing materials. Chemosphere, 2022, 296, 133987.	8.2	18
20	Coproduction of hydrogen, butanol, butanediol, ethanol, and biogas from the organic fraction of municipal solid waste using bacterial cocultivation followed by anaerobic digestion. Renewable Energy, 2022, , .	8.9	10
21	Biochar enhanced bioaugmentation provides long-term tolerance under increasing ammonia toxicity in continuous biogas reactors. Renewable Energy, 2022, 195, 590-597.	8.9	3
22	Bioconversion of wastewater to single cell protein by methanotrophic bacteria. Bioresource Technology, 2021, 320, 124351.	9.6	57
23	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.	16.4	128
24	Bio-augmentation to improve lactic acid production from source-sorted organic household waste. Journal of Cleaner Production, 2021, 279, 123714.	9.3	21
25	An integer superstructure model to find a sustainable biorefinery platform for valorizing household waste to bioenergy, microbial protein, and biochemicals. Journal of Cleaner Production, 2021, 278, 123986.	9.3	11
26	In situ Biogas Upgrading by CO2-to-CH4 Bioconversion. Trends in Biotechnology, 2021, 39, 336-347.	9.3	116
27	A critical review on livestock manure biorefinery technologies: Sustainability, challenges, and future perspectives. Renewable and Sustainable Energy Reviews, 2021, 135, 110033.	16.4	176
28	Heavy metal stabilization and improved biochar generation via pyrolysis of hydrothermally treated sewage sludge with antibiotic mycelial residue. Waste Management, 2021, 119, 152-161.	7.4	44
29	Mitigating antibiotic pollution using cyanobacteria: Removal efficiency, pathways and metabolism. Water Research, 2021, 190, 116735.	11.3	62
30	Optimization of a newly developed electromethanogenesis for the highest record of methane production. Journal of Hazardous Materials, 2021, 407, 124363.	12.4	24
31	Recovery of intermittent cycle extended aeration system sludge through conversion into biodiesel by in-situ transesterification. Renewable Energy, 2021, 163, 56-65.	8.9	6
32	Deep insights into the network of acetate metabolism in anaerobic digestion: focusing on syntrophic acetate oxidation and homoacetogenesis. Water Research, 2021, 190, 116774.	11.3	109
33	Scaling-up of microbial electrosynthesis with multiple electrodes for in situ production of hydrogen peroxide. IScience, 2021, 24, 102094.	4.1	24
34	Quorum quenching, biological characteristics, and microbial community dynamics as key factors for combating fouling of membrane bioreactors. Npj Clean Water, 2021, 4, .	8.0	17
35	Impact of storage duration and micro-aerobic conditions on lactic acid production from food waste. Bioresource Technology, 2021, 323, 124618.	9.6	16
36	Municipal biopulp as substrate for lactic acid production focusing on downstream processing. Journal of Environmental Chemical Engineering, 2021, 9, 105136.	6.7	17

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37	Microbial protein production from CO2, H2, and recycled nitrogen: Focusing on ammonia toxicity and nitrogen sources. Journal of Cleaner Production, 2021, 291, 125921.	9.3	30
38	Valorization of palm oil mill wastewater for integrated production of microbial oil and biogas in a biorefinery approach. Journal of Cleaner Production, 2021, 296, 126606.	9.3	11
39	Genome-Centric Metatranscriptomics Analysis Reveals the Role of Hydrochar in Anaerobic Digestion of Waste Activated Sludge. Environmental Science & Technology, 2021, 55, 8351-8361.	10.0	77
40	Bioelectrochemically assisted sustainable conversion of industrial organic wastewater and clean production of microalgal protein. Resources, Conservation and Recycling, 2021, 168, 105441.	10.8	19
41	Feeding strategies of continuous biomethanation processes during increasing organic loading with lipids or glucose for avoiding potential inhibition. Bioresource Technology, 2021, 327, 124812.	9.6	6
42	Beyond the farm: Making edible protein from CO2 via hybrid bioinorganic electrosynthesis. One Earth, 2021, 4, 868-878.	6.8	10
43	Evolution of the microbial community structure in biogas reactors inoculated with seeds from different origin. Science of the Total Environment, 2021, 773, 144981.	8.0	12
44	Degradation of metoprolol from wastewater in a bio-electro-Fenton system. Science of the Total Environment, 2021, 771, 145385.	8.0	25
45	Innovative air-cathode bioelectrochemical sensor for monitoring of total volatile fatty acids during anaerobic digestion. Chemosphere, 2021, 273, 129660.	8.2	12
46	The implications of using organic-rich industrial wastewater as biomethanation feedstocks. Renewable and Sustainable Energy Reviews, 2021, 144, 110987.	16.4	10
47	Microbial dynamics in biogas digesters treating lipid-rich substrates via genome-centric metagenomics. Science of the Total Environment, 2021, 778, 146296.	8.0	17
48	A novel persulfate-photo-bioelectrochemical hybrid system promoting the degradation of refractory micropollutants at neutral pH. Journal of Hazardous Materials, 2021, 416, 125905.	12.4	8
49	Anaerobic co-digestion of macroalgal biomass with cattle manure under high salinity conditions. Journal of Environmental Chemical Engineering, 2021, 9, 105406.	6.7	13
50	Valorization of municipal organic waste into purified lactic acid. Bioresource Technology, 2021, 342, 125933.	9.6	19
51	Pilot-scale biomethanation in a trickle bed reactor: Process performance and microbiome functional reconstruction. Energy Conversion and Management, 2021, 244, 114491.	9.2	39
52	Comprehensive evaluation of different strategies to recover methanogenic performance in ammonia-stressed reactors. Bioresource Technology, 2021, 336, 125329.	9.6	25
53	Modelling bioaugmentation: Engineering intervention in anaerobic digestion. Renewable Energy, 2021, 175, 1080-1087.	8.9	10
54	Synergistic effect for efficient oxidization of refractory organics with high chroma by an innovative persulfate assisted microbial electrolysis ultraviolet cell. Chemical Engineering Journal, 2021, 419, 129477.	12.7	5

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55	Bio-electrochemically extracted nitrogen from residual resources for microbial protein production. Bioresource Technology, 2021, 337, 125353.	9.6	14
56	Could biological biogas upgrading be a sustainable substitution for water scrubbing technology? A case study in Denmark. Energy Conversion and Management, 2021, 245, 114550.	9.2	29
57	Multicomponent nanoparticles as means to improve anaerobic digestion performance. Chemosphere, 2021, 283, 131277.	8.2	21
58	Bioavailability and effect of Î±-Fe2O3 nanoparticles on growth, fatty acid composition and morphological indices of Chlorella vulgaris. Chemosphere, 2021, 282, 131044.	8.2	20
59	Ex-situ biogas upgrading in thermophilic up-flow reactors: The effect of different gas diffusers and gas retention times. Bioresource Technology, 2021, 340, 125694.	9.6	22
60	Upcycling the anaerobic digestion streams in a bioeconomy approach: A review. Renewable and Sustainable Energy Reviews, 2021, 151, 111635.	16.4	24
61	Biogas upgrading and valorization to single-cell protein in a bioinorganic electrosynthesis system. Chemical Engineering Journal, 2021, 426, 131837.	12.7	10
62	Syngas biomethanation: effect of biomass-gas ratio, syngas composition and pH buffer. Bioresource Technology, 2021, 342, 125997.	9.6	16
63	Editorial: Biological Strategies to Enhance the Anaerobic Digestion Performance: Fundamentals and Process Development. Frontiers in Microbiology, 2021, 12, 762875.	3.5	0
64	Techno-Economic Assessment of Biological Biogas Upgrading Based on Danish Biogas Plants. Energies, 2021, 14, 8252.	3.1	20
65	Supervisory control of an anaerobic digester subject to drastic substrate changes. Chemical Engineering Journal, 2020, 391, 123502.	12.7	11
66	Microbial community response to ammonia levels in hydrogen assisted biogas production and upgrading process. Bioresource Technology, 2020, 296, 122276.	9.6	28
67	Anti-algal activity of Fe2O3â€"TiO2 photocatalyst on Chlorella vulgaris species under visible light irradiation. Chemosphere, 2020, 242, 125119.	8.2	30
68	Environmental life cycle assessment of different biorefinery platforms valorizing municipal solid waste to bioenergy, microbial protein, lactic and succinic acid. Renewable and Sustainable Energy Reviews, 2020, 117, 109493.	16.4	136
69	Up-concentration of succinic acid, lactic acid, and ethanol fermentations broths by forward osmosis. Biochemical Engineering Journal, 2020, 155, 107482.	3.6	20
70	Metagenomic insights into bioaugmentation and biovalorization of oily industrial wastes by lipolytic oleaginous yeast Yarrowia lipolytica during successive batch fermentation. Biotechnology and Applied Biochemistry, 2020, 67, 1020-1029.	3.1	7
71	Effect of metal oxide based TiO2 nanoparticles on anaerobic digestion process of lignocellulosic substrate. Energy, 2020, 191, 116580.	8.8	25
72	Feasibility and applicability of the scaling-up of bio-electro-Fenton system for textile wastewater treatment. Environment International, 2020, 134, 105352.	10.0	42

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73	Revealing metabolic mechanisms of interaction in the anaerobic digestion microbiome by flux balance analysis. Metabolic Engineering, 2020, 62, 138-149.	7.0	45
74	Saline fish wastewater in biogas plants - Biomethanation toxicity and safe use. Journal of Environmental Management, 2020, 275, 111233.	7.8	10
75	Insights into Ammonia Adaptation and Methanogenic Precursor Oxidation by Genome-Centric Analysis. Environmental Science & Technology, 2020, 54, 12568-12582.	10.0	57
76	An innovative microbial electrochemical ultraviolet photolysis cell (MEUC) for efficient degradation of carbamazepine. Water Research, 2020, 187, 116451.	11.3	29
77	Fermentative Production of Lactic Acid as a Sustainable Approach to Valorize Household Bio-Waste. Frontiers in Sustainability, 2020, 1, .	2.6	18
78	Biological CO2 fixation in up-flow reactors via exogenous H2 addition. Journal of Biotechnology, 2020, 319, 1-7.	3.8	22
79	Proteinaceous methanotrophs for feed additive using biowaste as carbon and nutrients source. Bioresource Technology, 2020, 313, 123646.	9.6	33
80	Potassium inhibition during sludge and biopulp co-digestion; experimental and model-based approaches. Waste Management, 2020, 113, 304-311.	7.4	16
81	Electrochemical capacitive performance of intact anaerobic granular sludge-based 3D bioanode. Journal of Power Sources, 2020, 470, 228399.	7.8	18
82	Medium chain fatty acids production by microbial chain elongation: Recent advances. Advances in Bioenergy, 2020, 5, 63-99.	1.3	7
83	Sulfide restrains the growth of Methylocapsa acidiphila converting renewable biogas to single cell protein. Water Research, 2020, 184, 116138.	11.3	30
84	Carbon monoxide conversion and syngas biomethanation mediated by different microbial consortia. Bioresource Technology, 2020, 314, 123739.	9.6	27
85	Effect of ammonia on anaerobic digestion of municipal solid waste: Inhibitory performance, bioaugmentation and microbiome functional reconstruction. Chemical Engineering Journal, 2020, 401, 126159.	12.7	76
86	CO as electron donor for efficient medium chain carboxylate production by chain elongation: Microbial and thermodynamic insights. Chemical Engineering Journal, 2020, 390, 124577.	12.7	24
87	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
88	Modeling temperature response in bioenergy production: Novel solution to a common challenge of anaerobic digestion. Applied Energy, 2020, 263, 114646.	10.1	28
89	Metabolic dependencies govern microbial syntrophies during methanogenesis in an anaerobic digestion ecosystem. Microbiome, 2020, 8, 22.	11.1	91
90	Microbial adaptation to high ammonia concentrations during anaerobic digestion of manureâ€based feedstock: biomethanation and <scp>16S rRNA</scp> gene sequencing. Journal of Chemical Technology and Biotechnology, 2020, 95, 1970-1979.	3.2	20

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91	Human waste anaerobic digestion as a promising low-carbon strategy: Operating performance, microbial dynamics and environmental footprint. Journal of Cleaner Production, 2020, 256, 120414.	9.3	26
92	Coupling electrochemical ammonia extraction and cultivation of methane oxidizing bacteria for production of microbial protein. Journal of Environmental Management, 2020, 265, 110560.	7.8	21
93	Treatment of digestate residues for energy recovery and biochar production: From lab to pilot-scale verification. Journal of Cleaner Production, 2020, 265, 121852.	9.3	42
94	Hydrochar-Facilitated Anaerobic Digestion: Evidence for Direct Interspecies Electron Transfer Mediated through Surface Oxygen-Containing Functional Groups. Environmental Science & Technology, 2020, 54, 5755-5766.	10.0	190
95	Effect of surfactants on photocatalytic toxicity of TiO2- based nanoparticles toward Vibrio fischeri marine bacteria. Inorganic Chemistry Communication, 2020, 116, 107936.	3.9	8
96	Long-term preserved and rapidly revived methanogenic cultures: Microbial dynamics and preservation mechanisms. Journal of Cleaner Production, 2020, 263, 121577.	9.3	11
97	Degradation of pharmaceuticals from wastewater in a 20-L continuous flow bio-electro-Fenton (BEF) system. Science of the Total Environment, 2020, 727, 138684.	8.0	49
98	Complete genome sequence of Nitratireductor sp. strain OM-1: A lipid-producing bacterium with potential use in wastewater treatment. Biotechnology Reports (Amsterdam, Netherlands), 2019, 24, e00366.	4.4	3
99	Biogas Upgrading: Current and Emerging Technologies. , 2019, , 817-843.		24
100	Urban biowaste valorization by coupling anaerobic digestion and single cell protein production. Bioresource Technology, 2019, 290, 121743.	9.6	65
101	Methane oxidising bacteria to upcycle effluent streams from anaerobic digestion of municipal biowaste. Journal of Environmental Management, 2019, 251, 109590.	7.8	33
102	Hydrogenotrophic methanogens are the key for a successful bioaugmentation to alleviate ammonia inhibition in thermophilic anaerobic digesters. Bioresource Technology, 2019, 293, 122070.	9.6	66
103	Exoelectrogenic Anaerobic Granular Sludge for Simultaneous Electricity Generation and Wastewater Treatment. Environmental Science & Technology, 2019, 53, 12130-12140.	10.0	40
104	Bioaugmentation strategy for overcoming ammonia inhibition during biomethanation of a protein-rich substrate. Chemosphere, 2019, 231, 415-422.	8.2	66
105	Environmental impacts of biogas production from grass: Role of co-digestion and pretreatment at harvesting time. Applied Energy, 2019, 252, 113467.	10.1	40
106	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
107	Biogas upgrading and biochemical production from gas fermentation: Impact of microbial community and gas composition. Bioresource Technology, 2019, 286, 121413.	9.6	38
108	Exploring stability indicators for efficient monitoring of anaerobic digestion of pig manure under perturbations. Waste Management, 2019, 91, 139-146.	7.4	39

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109	Carbon dioxide anion radical as a tool to enhance lignin valorization. Science of the Total Environment, 2019, 682, 47-58.	8.0	14
110	Enhancing anaerobic digestion of agricultural residues by microaerobic conditions. Biomass Conversion and Biorefinery, 2019, , 1.	4.6	6
111	Acclimatization contributes to stable anaerobic digestion of organic fraction of municipal solid waste under extreme ammonia levels: Focusing on microbial community dynamics. Bioresource Technology, 2019, 286, 121376.	9.6	89
112	Valorization of organic waste with simultaneous biogas upgrading for the production of succinic acid. Biochemical Engineering Journal, 2019, 147, 136-145.	3.6	45
113	Application of nano-structured materials in anaerobic digestion: Current status and perspectives. Chemosphere, 2019, 229, 188-199.	8.2	95
114	Immobilization of Clostridium kluyveri on wheat straw to alleviate ammonia inhibition during chain elongation for n-caproate production. Environment International, 2019, 127, 134-141.	10.0	21
115	The Potential of Biogas; the Solution to Energy Storage. ChemSusChem, 2019, 12, 2147-2153.	6.8	52
116	Graphene based ZnO nanoparticles to depolymerize lignin-rich residues via UV/iodide process. Environment International, 2019, 125, 172-183.	10.0	21
117	Engineering Oleaginous Yeast as the Host for Fermentative Succinic Acid Production From Glucose. Frontiers in Bioengineering and Biotechnology, 2019, 7, 361.	4.1	21
118	Microbial profiling during anaerobic digestion of cheese whey in reactors operated at different conditions. Bioresource Technology, 2019, 275, 375-385.	9.6	59
119	Novel ecological insights and functional roles during anaerobic digestion of saccharides unveiled by genome-centric metagenomics. Water Research, 2019, 151, 271-279.	11.3	83
120	Innovative operation of microbial fuel cell-based biosensor for selective monitoring of acetate during anaerobic digestion. Science of the Total Environment, 2019, 655, 1439-1447.	8.0	41
121	Process performance and microbial community structure in thermophilic trickling biofilter reactors for biogas upgrading. Science of the Total Environment, 2019, 655, 529-538.	8.0	85
122	Co-digestion of Laminaria digitata with cattle manure: A unimodel simulation study of both batch and continuous experiments. Bioresource Technology, 2019, 276, 361-368.	9.6	19
123	Miscanthus straw as substrate for biosuccinic acid production: Focusing on pretreatment and downstream processing. Bioresource Technology, 2019, 278, 82-91.	9.6	27
124	Co-digestion of municipal waste biopulp with marine macroalgae focusing on sodium inhibition. Energy Conversion and Management, 2019, 180, 931-937.	9.2	25
125	16s rRNA gene sequencing and radioisotopic analysis reveal the composition of ammonia acclimatized methanogenic consortia. Bioresource Technology, 2019, 272, 54-62.	9.6	32
126	Microbial electrolytic disinfection process for highly efficient Escherichia coli inactivation. Chemical Engineering Journal, 2018, 342, 220-227.	12.7	33

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127	Metagenomic binning reveals the functional roles of core abundant microorganisms in twelve full-scale biogas plants. Water Research, 2018, 140, 123-134.	11.3	122
128	Biorefineries: Focusing on a Closed Cycle Approach with Biogas as the Final Step. Biofuel and Biorefinery Technologies, 2018, , 277-303.	0.3	3
129	A novel process for volatile fatty acids production from syngas by integrating with mesophilic alkaline fermentation of waste activated sludge. Water Research, 2018, 139, 372-380.	11.3	39
130	Co-digestion and model simulations of source separated municipal organic waste with cattle manure under batch and continuously stirred tank reactors. Energy Conversion and Management, 2018, 159, 1-6.	9.2	46
131	Taxonomy of anaerobic digestion microbiome reveals biases associated with the applied high throughput sequencing strategies. Scientific Reports, 2018, 8, 1926.	3.3	70
132	Biogas upgrading and utilization: Current status and perspectives. Biotechnology Advances, 2018, 36, 452-466.	11.7	885
133	Life cycle assessment of different strategies for energy and nutrient recovery from source sorted organic fraction of household waste. Journal of Cleaner Production, 2018, 180, 360-374.	9.3	76
134	Performance and genome-centric metagenomics of thermophilic single and two-stage anaerobic digesters treating cheese wastes. Water Research, 2018, 134, 181-191.	11.3	56
135	Integrated electrochemical-biological process as an alternative mean for ammonia monitoring during anaerobic digestion of organic wastes. Chemosphere, 2018, 195, 735-741.	8.2	25
136	Bio-electro-Fenton process for the degradation of Non-Steroidal Anti-Inflammatory Drugs in wastewater. Chemical Engineering Journal, 2018, 338, 401-410.	12.7	96
137	Biogas and its opportunitiesâ€"A review. Frontiers of Environmental Science and Engineering, 2018, 12, 1.	6.0	201
138	Hybrid biogas upgrading in a two-stage thermophilic reactor. Energy Conversion and Management, 2018, 168, 1-10.	9.2	71
139	TiO₂â€"AgCl Based Nanoparticles for Photocatalytic Production of Phenolic Compounds from Lignocellulosic Residues. Energy & Fuels, 2018, 32, 6813-6822.	5.1	16
140	Microbial fuel cell-based biosensor for toxic carbon monoxide monitoring. Talanta, 2018, 186, 368-371.	5.5	32
141	Nutrient recovery from industrial wastewater as single cell protein by a co-culture of green microalgae and methanotrophs. Biochemical Engineering Journal, 2018, 134, 129-135.	3.6	115
142	Evaluation of microalgae production coupled with wastewater treatment. Environmental Technology (United Kingdom), 2018, 39, 581-592.	2.2	51
143	Acclimation to extremely high ammonia levels in continuous biomethanation process and the associated microbial community dynamics. Bioresource Technology, 2018, 247, 616-623.	9.6	133
144	Converting mesophilic upflow sludge blanket (UASB) reactors to thermophilic by applying axenic methanogenic culture bioaugmentation. Chemical Engineering Journal, 2018, 332, 508-516.	12.7	30

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145	Amino acids production focusing on fermentation technologies â€“ A review. Biotechnology Advances, 2018, 36, 14-25.	11.7	205
146	Process performance and modelling of anaerobic digestion using source-sorted organic household waste. Bioresource Technology, 2018, 247, 486-495.	9.6	52
147	Microbial electrochemical separation of CO2 for biogas upgrading. Bioresource Technology, 2018, 247, 380-386.	9.6	43
148	Microalgal process-monitoring based on high-selectivity spectroscopy tools: status and future perspectives. Critical Reviews in Biotechnology, 2018, 38, 704-718.	9.0	19
149	Nickel spiking to improve the methane yield of sewage sludge. Bioresource Technology, 2018, 270, 732-737.	9.6	31
150	Factors influencing the fate of antibiotic resistance genes during thermochemical pretreatment and anaerobic digestion of pharmaceutical waste sludge. Environmental Pollution, 2018, 243, 1403-1413.	7.5	36
151	Microbial activity response to hydrogen injection in thermophilic anaerobic digesters revealed by genome-centric metatranscriptomics. Microbiome, 2018, 6, 194.	11.1	39
152	Integrated production of cellulosic bioethanol and succinic acid from rapeseed straw after dilute-acid pretreatment. Bioresource Technology, 2018, 265, 191-199.	9.6	69
153	Simultaneous biogas upgrading and biochemicals production using anaerobic bacterial mixed cultures. Water Research, 2018, 142, 86-95.	11.3	58
154	A proposed mechanism for the ammonia-LCFA synergetic co-inhibition effect on anaerobic digestion process. Chemical Engineering Journal, 2018, 349, 574-580.	12.7	35
155	Two-year microbial adaptation during hydrogen-mediated biogas upgrading process in a serial reactor configuration. Bioresource Technology, 2018, 264, 140-147.	9.6	72
156	Photocatalytic inactivation of Vibrio fischeri using Fe2O3-TiO2-based nanoparticles. Environmental Research, 2018, 166, 497-506.	7.5	30
157	Hydrogen-Fueled Microbial Pathways in Biogas Upgrading Systems Revealed by Genome-Centric Metagenomics. Frontiers in Microbiology, 2018, 9, 1079.	3.5	66
158	Spatial Distribution and Diverse Metabolic Functions of Lignocellulose-Degrading Uncultured Bacteria as Revealed by Genome-Centric Metagenomics. Applied and Environmental Microbiology, 2018, 84, .	3.1	72
159	Mechanical pretreatment for increased biogas production from lignocellulosic biomass; predicting the methane yield from structural plant components. Waste Management, 2018, 78, 903-910.	7.4	71
160	Electricity generation and microbial communities in microbial fuel cell powered by macroalgal biomass. Bioelectrochemistry, 2018, 123, 145-149.	4.6	65
161	Energy recovery from wastewater microalgae through anaerobic digestion process: Methane potential, continuous reactor operation and modelling aspects. Biochemical Engineering Journal, 2018, 139, 1-7.	3.6	34
162	Bio-electro-Fenton processes for wastewater treatment: Advances and prospects. Chemical Engineering Journal, 2018, 354, 492-506.	12.7	133

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163	Current as an indicator of ammonia concentration during wastewater treatment in an integrated microbial electrolysis cell - Nitrification system. Electrochimica Acta, 2018, 281, 266-273.	5.2	13
164	Salinity-gradient energy driven microbial electrosynthesis of value-added chemicals from CO2 reduction. Water Research, 2018, 142, 396-404.	11.3	40
165	The Potential of Bioelectrochemical Sensor for Monitoring of Acetate During Anaerobic Digestion: Focusing on Novel Reactor Design. Frontiers in Microbiology, 2018, 9, 3357.	3.5	24
166	Effect of different ammonia sources on aceticlastic and hydrogenotrophic methanogens. Bioresource Technology, 2018, 250, 390-397.	9.6	70
167	Improving the energy balance of grass-based anaerobic digestion through combined harvesting and pretreatment. Anaerobe, 2017, 46, 131-137.	2.1	17
168	Characterization of the planktonic microbiome in upflow anaerobic sludge blanket reactors during adaptation of mesophilic methanogenic granules to thermophilic operational conditions. Anaerobe, 2017, 46, 69-77.	2.1	14
169	A novel archaeal species belonging to Methanoculleus genus identified via de-novo assembly and metagenomic binning process in biogas reactors. Anaerobe, 2017, 46, 23-32.	2.1	63
170	Seaweed as innovative feedstock for energy and feed â€“ Evaluating the impacts through a Life Cycle Assessment. Journal of Cleaner Production, 2017, 150, 1-15.	9.3	87
171	Antibiotic Resistance Genes and Correlations with Microbial Community and Metal Resistance Genes in Full-Scale Biogas Reactors As Revealed by Metagenomic Analysis. Environmental Science & Technology, 2017, 51, 4069-4080.	10.0	154
172	Different cultivation methods to acclimatise ammonia-tolerant methanogenic consortia. Bioresource Technology, 2017, 232, 1-9.	9.6	43
173	Microbial population dynamics in urban organic waste anaerobic co-digestion with mixed sludge during a change in feedstock composition and different hydraulic retention times. Water Research, 2017, 118, 261-271.	11.3	136
174	Butanol fermentation of the brown seaweed Laminaria digitata by Clostridium beijerinckii DSM-6422. Bioresource Technology, 2017, 238, 16-21.	9.6	68
175	Efficient treatment of aniline containing wastewater in bipolar membrane microbial electrolysis cell-Fenton system. Water Research, 2017, 119, 67-72.	11.3	94
176	Detailing the start-up and microalgal growth performance of a full-scale photobioreactor operated with bioindustrial wastewater. Algal Research, 2017, 25, 101-108.	4.6	25
177	Mechanical pretreatment at harvesting increases the bioenergy output from marginal land grasses. Renewable Energy, 2017, 111, 914-921.	8.9	44
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