

Xinyu Zhu

List of Publications by Year in descending order

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Version: 2024-02-01

37
papers

1,486
citations

304743

22
h-index

330143

37
g-index

40
all docs

40
docs citations

40
times ranked

1339
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Metabolic dependencies govern microbial syntrophies during methanogenesis in an anaerobic digestion ecosystem. <i>Microbiome</i> , 2020, 8, 22.	11.1	91
3	Novel ecological insights and functional roles during anaerobic digestion of saccharides unveiled by genome-centric metagenomics. <i>Water Research</i> , 2019, 151, 271-279.	11.3	83
4	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.	10.0	79
5	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.	12.7	76
6	Taxonomy of anaerobic digestion microbiome reveals biases associated with the applied high throughput sequencing strategies. <i>Scientific Reports</i> , 2018, 8, 1926.	3.3	70
7	New steady-state microbial community compositions and process performances in biogas reactors induced by temperature disturbances. <i>Biotechnology for Biofuels</i> , 2015, 8, 3.	6.2	68
8	A novel archaeal species belonging to <i>Methanoculleus</i> genus identified via de-novo assembly and metagenomic binning process in biogas reactors. <i>Anaerobe</i> , 2017, 46, 23-32.	2.1	63
9	Dynamic functional characterization and phylogenetic changes due to Long Chain Fatty Acids pulses in biogas reactors. <i>Scientific Reports</i> , 2016, 6, 28810.	3.3	58
10	Insights into Ammonia Adaptation and Methanogenic Precursor Oxidation by Genome-Centric Analysis. <i>Environmental Science & Technology</i> , 2020, 54, 12568-12582.	10.0	57
11	Bioconversion of wastewater to single cell protein by methanotrophic bacteria. <i>Bioresource Technology</i> , 2021, 320, 124351.	9.6	57
12	Microbial community changes in methanogenic granules during the transition from mesophilic to thermophilic conditions. <i>Applied Microbiology and Biotechnology</i> , 2017, 101, 1313-1322.	3.6	51
13	Heavy metal stabilization and improved biochar generation via pyrolysis of hydrothermally treated sewage sludge with antibiotic mycelial residue. <i>Waste Management</i> , 2021, 119, 152-161.	7.4	44
14	Treatment of digestate residues for energy recovery and biochar production: From lab to pilot-scale verification. <i>Journal of Cleaner Production</i> , 2020, 265, 121852.	9.3	42
15	Integrated valorization system for simultaneous high strength organic wastewater treatment and astaxanthin production from <i>Haematococcus pluvialis</i> . <i>Bioresource Technology</i> , 2021, 326, 124761.	9.6	40
16	Pilot-scale biomethanation in a trickle bed reactor: Process performance and microbiome functional reconstruction. <i>Energy Conversion and Management</i> , 2021, 244, 114491.	9.2	39
17	Methane oxidising bacteria to upcycle effluent streams from anaerobic digestion of municipal biowaste. <i>Journal of Environmental Management</i> , 2019, 251, 109590.	7.8	33
18	Proteinaceous methanotrophs for feed additive using biowaste as carbon and nutrients source. <i>Bioresource Technology</i> , 2020, 313, 123646.	9.6	33

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19	Converting mesophilic upflow sludge blanket (UASB) reactors to thermophilic by applying axenic methanogenic culture bioaugmentation. <i>Chemical Engineering Journal</i> , 2018, 332, 508-516.	12.7	30
20	Microbial community response to ammonia levels in hydrogen assisted biogas production and upgrading process. <i>Bioresource Technology</i> , 2020, 296, 122276.	9.6	28
21	Advances in microalgal research for valorization of industrial wastewater. <i>Bioresource Technology</i> , 2022, 343, 126128.	9.6	28
22	Carbon monoxide conversion and syngas biomethanation mediated by different microbial consortia. <i>Bioresource Technology</i> , 2020, 314, 123739.	9.6	27
23	Comprehensive evaluation of different strategies to recover methanogenic performance in ammonia-stressed reactors. <i>Bioresource Technology</i> , 2021, 336, 125329.	9.6	25
24	Upcycling the anaerobic digestion streams in a bioeconomy approach: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 151, 111635.	16.4	24
25	Ex-situ biogas upgrading in thermophilic up-flow reactors: The effect of different gas diffusers and gas retention times. <i>Bioresource Technology</i> , 2021, 340, 125694.	9.6	22
26	Bioavailability and effect of Fe_2O_3 nanoparticles on growth, fatty acid composition and morphological indices of <i>Chlorella vulgaris</i> . <i>Chemosphere</i> , 2021, 282, 131044.	8.2	20
27	Bioelectrochemically assisted sustainable conversion of industrial organic wastewater and clean production of microalgal protein. <i>Resources, Conservation and Recycling</i> , 2021, 168, 105441.	10.8	19
28	Ex-situ biogas upgrading in thermophilic trickle bed reactors packed with micro-porous packing materials. <i>Chemosphere</i> , 2022, 296, 133987.	8.2	18
29	Microbial dynamics in biogas digesters treating lipid-rich substrates via genome-centric metagenomics. <i>Science of the Total Environment</i> , 2021, 778, 146296.	8.0	17
30	Syngas biomethanation: effect of biomass-gas ratio, syngas composition and pH buffer. <i>Bioresource Technology</i> , 2021, 342, 125997.	9.6	16
31	Characterization of the planktonic microbiome in upflow anaerobic sludge blanket reactors during adaptation of mesophilic methanogenic granules to thermophilic operational conditions. <i>Anaerobe</i> , 2017, 46, 69-77.	2.1	14
32	The interactions between microalgae and wastewater indigenous bacteria for treatment and valorization of brewery wastewater. <i>Resources, Conservation and Recycling</i> , 2022, 182, 106341.	10.8	14
33	Enhanced fermentative lactic acid production from source-sorted organic household waste: Focusing on low-pH microbial adaptation and bio-augmentation strategy. <i>Science of the Total Environment</i> , 2022, 808, 152129.	8.0	12
34	Long-term preserved and rapidly revived methanogenic cultures: Microbial dynamics and preservation mechanisms. <i>Journal of Cleaner Production</i> , 2020, 263, 121577.	9.3	11
35	Biogas upgrading and valorization to single-cell protein in a bioinorganic electrosynthesis system. <i>Chemical Engineering Journal</i> , 2021, 426, 131837.	12.7	10
36	Medium chain fatty acids production by microbial chain elongation: Recent advances. <i>Advances in Bioenergy</i> , 2020, 5, 63-99.	1.3	7

#	ARTICLE	IF	CITATIONS
37	Improving lactic acid production via bio-augmentation with acid-tolerant isolates from source-sorted organic household waste. <i>Biomass Conversion and Biorefinery</i> , 2022, 12, 4449-4461.	4.6	5