Xinyu Zhu

List of Publications by Year
in descending order

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		304743	330143
37	1,486	22	37
papers	citations	h-index	g-index

40	40	40	1339
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Advances in microalgal research for valorization of industrial wastewater. Bioresource Technology, 2022, 343, 126128.	9.6	28
2	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
3	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
4	Ex-situ biogas upgrading in thermophilic trickle bed reactors packed with micro-porous packing materials. Chemosphere, 2022, 296, 133987.	8.2	18
5	The interactions between microalgae and wastewater indigenous bacteria for treatment and valorization of brewery wastewater. Resources, Conservation and Recycling, 2022, 182, 106341.	10.8	14
6	Bioconversion of wastewater to single cell protein by methanotrophic bacteria. Bioresource Technology, 2021, 320, 124351.	9.6	57
7	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
8	Integrated valorization system for simultaneous high strength organic wastewater treatment and astaxanthin production from Haematococcus pluvialis. Bioresource Technology, 2021, 326, 124761.	9.6	40
9	Bioelectrochemically assisted sustainable conversion of industrial organic wastewater and clean production of microalgal protein. Resources, Conservation and Recycling, 2021, 168, 105441.	10.8	19
10	Microbial dynamics in biogas digesters treating lipid-rich substrates via genome-centric metagenomics. Science of the Total Environment, 2021, 778, 146296.	8.0	17
11	Pilot-scale biomethanation in a trickle bed reactor: Process performance and microbiome functional reconstruction. Energy Conversion and Management, 2021, 244, 114491.	9.2	39
12	Comprehensive evaluation of different strategies to recover methanogenic performance in ammonia-stressed reactors. Bioresource Technology, 2021, 336, 125329.	9.6	25
13	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
14	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
15	Upcycling the anaerobic digestion streams in a bioeconomy approach: A review. Renewable and Sustainable Energy Reviews, 2021, 151, 111635.	16.4	24
16	Biogas upgrading and valorization to single-cell protein in a bioinorganic electrosynthesis system. Chemical Engineering Journal, 2021, 426, 131837.	12.7	10
17	Syngas biomethanation: effect of biomass-gas ratio, syngas composition and pH buffer. Bioresource Technology, 2021, 342, 125997.	9.6	16
18	Microbial community response to ammonia levels in hydrogen assisted biogas production and upgrading process. Bioresource Technology, 2020, 296, 122276.	9.6	28

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19	Insights into Ammonia Adaptation and Methanogenic Precursor Oxidation by Genome-Centric Analysis. Environmental Science & Technology, 2020, 54, 12568-12582.	10.0	57
20	Proteinaceous methanotrophs for feed additive using biowaste as carbon and nutrients source. Bioresource Technology, 2020, 313, 123646.	9.6	33
21	Medium chain fatty acids production by microbial chain elongation: Recent advances. Advances in Bioenergy, 2020, 5, 63-99.	1.3	7
22	Carbon monoxide conversion and syngas biomethanation mediated by different microbial consortia. Bioresource Technology, 2020, 314, 123739.	9.6	27
23	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
24	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
25	Metabolic dependencies govern microbial syntrophies during methanogenesis in an anaerobic digestion ecosystem. Microbiome, 2020, 8, 22.	11.1	91
26	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
27	Long-term preserved and rapidly revived methanogenic cultures: Microbial dynamics and preservation mechanisms. Journal of Cleaner Production, 2020, 263, 121577.	9.3	11
28	Methane oxidising bacteria to upcycle effluent streams from anaerobic digestion of municipal biowaste. Journal of Environmental Management, 2019, 251, 109590.	7.8	33
29	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
30	Taxonomy of anaerobic digestion microbiome reveals biases associated with the applied high throughput sequencing strategies. Scientific Reports, 2018, 8, 1926.	3.3	70
31	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
32	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
33	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
34	Microbial community changes in methanogenic granules during the transition from mesophilic to thermophilic conditions. Applied Microbiology and Biotechnology, 2017, 101, 1313-1322.	3.6	51
35	Untangling the Effect of Fatty Acid Addition at Species Level Revealed Different Transcriptional Responses of the Biogas Microbial Community Members. Environmental Science & Technology, 2016, 50, 6079-6090.	10.0	79
36	Dynamic functional characterization and phylogenetic changes due to Long Chain Fatty Acids pulses in biogas reactors. Scientific Reports, 2016, 6, 28810.	3.3	58

#	Article	IF	Citations
37	New steady-state microbial community compositions and process performances in biogas reactors induced by temperature disturbances. Biotechnology for Biofuels, 2015, 8, 3.	6.2	68