

# Ran Yu

## List of Publications by Year in descending order

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Version: 2024-02-01

65  
papers

1,571  
citations

331538

21  
h-index

315616

38  
g-index

65  
all docs

65  
docs citations

65  
times ranked

1689  
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental study on anaerobic co-digestion of the individual component of biomass with sewage sludge: methane production and microbial community. <i>Biomass Conversion and Biorefinery</i> , 2022, 12, 5045-5058.	2.9	10
2	Field study of microbial community structure and dechlorination activity in a multi-solvents co-contaminated site undergoing natural attenuation. <i>Journal of Hazardous Materials</i> , 2022, 423, 127010.	6.5	22
3	Modelling of self-sustainable microbial fuel cell type oil sensors based on restricted oxygen transfer and two-population competition. <i>Science of the Total Environment</i> , 2022, 806, 151333.	3.9	5
4	Investigation on the effect of different additives on anaerobic co-digestion of corn straw and sewage sludge: Comparison of biochar, Fe <sub>3</sub> O <sub>4</sub> , and magnetic biochar. <i>Bioresource Technology</i> , 2022, 345, 126532.	4.8	34
5	Enhanced dewaterability of waste-activated sludge with zero-valent iron-activated persulfate oxidation under mild hydrothermal conditions. <i>Water Science and Technology</i> , 2022, 85, 851-861.	1.2	2
6	Sludge dewaterability enhancement under low temperature condition with cold-tolerant <i>Bdellovibrio</i> sp. CLL13. <i>Science of the Total Environment</i> , 2022, 820, 153269.	3.9	6
7	Enhanced Nutrient Removal in A2N Effluent by Reclaimed Biochar Adsorption. <i>International Journal of Environmental Research and Public Health</i> , 2022, 19, 4016.	1.2	1
8	Mixotrophic Cultivation of Microalgae Using Biogas as the Substrate. <i>Environmental Science &amp; Technology</i> , 2022, 56, 3669-3677.	4.6	17
9	Distribution, Dissemination and Fate of Antibiotic Resistance Genes During Sewage Sludge Processing—a Review. <i>Water, Air, and Soil Pollution</i> , 2022, 233, 1.	1.1	6
10	The application of sulfate radical-based advanced oxidation processes in hydrothermal treatment of activated sludge at different stages: A comparative study. <i>Environmental Science and Pollution Research</i> , 2022, 29, 59456-59465.	2.7	8
11	Chronic effects of cerium dioxide nanoparticles on biological nitrogen removal and nitrous oxide emission: Insight into impact mechanism and performance recovery potential. <i>Bioresource Technology</i> , 2022, 351, 126966.	4.8	1
12	Promotion and mechanisms of <i>Bdellovibrio</i> sp. Y38 on membrane fouling alleviation in membrane bioreactor. <i>Environmental Research</i> , 2022, 212, 113593.	3.7	5
13	Photocatalytic oxidation degradation of inhibitory fatty acids for aged <i>Chlorella vulgaris</i> cultivation medium recycling. <i>Bioprocess and Biosystems Engineering</i> , 2022, 45, 1211-1222.	1.7	1
14	Pluripotency of endogenous AHL-mediated quorum sensing in adaptation and recovery of biological nitrogen removal system under ZnO nanoparticle long-term exposure. <i>Science of the Total Environment</i> , 2022, 842, 156911.	3.9	12
15	A new insight into the influencing factors of natural attenuation of chlorinated hydrocarbons contaminated groundwater: A long-term field study of a retired pesticide site. <i>Journal of Hazardous Materials</i> , 2022, 439, 129595.	6.5	17
16	Effects of ozonation on disinfection by-product formation potentials and biostability in a pilot-scale drinking water treatment plant with micro-polluted water. <i>Environmental Technology (United Kingdom)</i> , 2022, 43, 129595.	1.0	1
17	Effects of ZnO nanoparticles on flocculation and sedimentation of activated sludge in wastewater treatment process. <i>Environmental Research</i> , 2021, 192, 110256.	3.7	17
18	Prediction of methane production from co-digestion of lignocellulosic biomass with sludge based on the major compositions of lignocellulosic biomass. <i>Environmental Science and Pollution Research</i> , 2021, 28, 25808-25818.	2.7	8

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19	Biological-based control strategies for MBR membrane biofouling: a review. <i>Water Science and Technology</i> , 2021, 83, 2597-2614.	1.2	20
20	Insights into chronic zinc oxide nanoparticle stress responses of biological nitrogen removal system with nitrous oxide emission and its recovery potential. <i>Bioresource Technology</i> , 2021, 327, 124797.	4.8	19
21	Mutagenicity Assessment to Pesticide Adjuvants of Toluene, Chloroform, and Trichloroethylene by Ames Test. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 8095.	1.2	4
22	Denitrifying phosphorus removal and microbial community characteristics of two-sludge DEPHANOX system: Effects of COD/TP ratio. <i>Biochemical Engineering Journal</i> , 2021, 172, 108059.	1.8	12
23	On-line monitoring of minor oil spills in natural waters using sediment microbial fuel cell sensors equipped with vertical floating cathodes. <i>Science of the Total Environment</i> , 2021, 782, 146549.	3.9	16
24	Mutagenicity evaluation to UV filters of benzophenone-6, benzophenone-8, and 4-methylbenzylidene camphor by Ames test. <i>PLoS ONE</i> , 2021, 16, e0255504.	1.1	3
25	Comprehensive insights into the organic fractions on solid-liquid separation performance of anaerobic digestates from food waste. <i>Science of the Total Environment</i> , 2021, 800, 149608.	3.9	8
26	Acute Toxicity and Ecotoxicological Risk Assessment of Three Volatile Pesticide Additives on the Earthworm <i>Eisenia fetida</i> . <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 11232.	1.2	4
27	Assessment of Biodegradation in Natural Attenuation Process of Chlorinated Hydrocarbons Contaminated Site: An Anaerobic Microcosm Study. <i>Soil and Sediment Contamination</i> , 2020, 29, 165-179.	1.1	6
28	Anaerobic Co-digestion of Urban Sewage Sludge with Agricultural Biomass. <i>Waste and Biomass Valorization</i> , 2020, 11, 6199-6209.	1.8	8
29	Responses of nitrogen transformation processes and N <sub>2</sub> O emissions in biological nitrogen removal system to short-term ZnO nanoparticle stress. <i>Science of the Total Environment</i> , 2020, 705, 135916.	3.9	30
30	Development and application of a novel whole sediment toxicity test using immobilized sediment and <i>Chlorella vulgaris</i> . <i>Ecotoxicology and Environmental Safety</i> , 2020, 189, 109979.	2.9	11
31	Electron transfer pathways and kinetic analysis of cathodic simultaneous nitrification and denitrification process in microbial fuel cell system. <i>Environmental Research</i> , 2020, 186, 109505.	3.7	18
32	Aging forming process of <i>Chlorella vulgaris</i> growing medium and its cultivation inhibition mechanism. <i>Bioprocess and Biosystems Engineering</i> , 2020, 43, 1921-1929.	1.7	5
33	Mechanistic Understanding of Predatory Bacteria-Induced Biolysis for Waste Sludge Dewaterability Improvement. <i>Water, Air, and Soil Pollution</i> , 2019, 230, 1.	1.1	10
34	Effects of Exogenous N-Acyl-Homoserine Lactone as Signal Molecule on <i>Nitrosomonas europaea</i> under ZnO Nanoparticle Stress. <i>International Journal of Environmental Research and Public Health</i> , 2019, 16, 3003.	1.2	3
35	Mechanistic insights into stress response and metabolic activity resilience of <i>Nitrosomonas europaea</i> cultures to long-term CeO <sub>2</sub> nanoparticle exposure. <i>Environmental Science: Nano</i> , 2019, 6, 2215-2227.	2.2	14
36	Evaluation of Physicochemical Characteristics in Drinking Water Sources Emphasized on Fluoride: A Case Study of Yancheng, China. <i>International Journal of Environmental Research and Public Health</i> , 2019, 16, 1030.	1.2	11

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37	Responses and recovery assessment of continuously cultured <i>Nitrosomonas europaea</i> under chronic ZnO nanoparticle stress: Effects of dissolved oxygen. <i>Chemosphere</i> , 2018, 195, 693-701.	4.2	11
38	Fates and Impacts of Nanomaterial Contaminants in Biological Wastewater Treatment System: a Review. <i>Water, Air, and Soil Pollution</i> , 2018, 229, 1.	1.1	29
39	Importance of hydroxylamine in abiotic N <sub>2</sub> O production during transient anoxia in planktonic axenic <i>Nitrosomonas</i> cultures. <i>Chemical Engineering Journal</i> , 2018, 335, 756-762.	6.6	23
40	<i>Nitrosomonas europaea</i> adaptation to anoxic-oxic cycling: Insights from transcription analysis, proteomics and metabolic network modeling. <i>Science of the Total Environment</i> , 2018, 615, 1566-1573.	3.9	44
41	Identification and detection sensitivity of <i>Microcystis aeruginosa</i> from mixed and field samples using MALDI-TOF MS. <i>Environmental Monitoring and Assessment</i> , 2018, 190, 712.	1.3	7
42	Adaption and recovery of <i>Nitrosomonas europaea</i> to chronic TiO <sub>2</sub> nanoparticle exposure. <i>Water Research</i> , 2018, 147, 429-439.	5.3	33
43	Regulation of membrane fixation and energy production/conversion for adaptation and recovery of ZnO nanoparticle impacted <i>Nitrosomonas europaea</i> . <i>Applied Microbiology and Biotechnology</i> , 2017, 101, 2953-2965.	1.7	22
44	Isolation and application of predatory <i>Bdellovibrio</i> -and-like organisms for municipal waste sludge biolysis and dewaterability enhancement. <i>Frontiers of Environmental Science and Engineering</i> , 2017, 11, 1.	3.3	35
45	Impacts of ammonia on zinc oxide nanoparticle toxicity to <i>Nitrosomonas europaea</i> . <i>IOP Conference Series: Earth and Environmental Science</i> , 2017, 64, 012114.	0.2	0
46	Hollow fiber membrane separation process in the presence of gaseous and particle impurities for post-combustion CO <sub>2</sub> capture. <i>International Journal of Green Energy</i> , 2017, 14, 15-23.	2.1	4
47	<i>Chelatococcus composti</i> sp. nov., isolated from penicillin fermentation fungi residue with pig manure co-compost. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2017, 67, 565-569.	0.8	6
48	Optimization of a novel chelerythrine-loaded magnetic Fe <sub>3</sub> O <sub>4</sub> /chitosan alpha-ketoglutaric acid system and evaluation of its anti-tumour activities. <i>Journal of Pharmacy and Pharmacology</i> , 2016, 68, 1030-1040.	1.2	3
49	Toxicity of binary mixtures of metal oxide nanoparticles to <i>Nitrosomonas europaea</i> . <i>Chemosphere</i> , 2016, 153, 187-197.	4.2	49
50	Physiological and transcriptional responses of <i>Nitrosomonas europaea</i> to TiO <sub>2</sub> and ZnO nanoparticles and their mixtures. <i>Environmental Science and Pollution Research</i> , 2016, 23, 13023-13034.	2.7	26
51	Enhanced simultaneous nitrification/denitrification in the biocathode of a microbial fuel cell fed with cyanobacteria solution. <i>Process Biochemistry</i> , 2016, 51, 80-88.	1.8	34
52	New process for copper migration by bioelectricity generation in soil microbial fuel cells. <i>Environmental Science and Pollution Research</i> , 2016, 23, 13147-13154.	2.7	50
53	Emission and Formation Characteristics of Aerosols from Ammonia-Based Wet Flue Gas Desulfurization. <i>Energy &amp; Fuels</i> , 2016, 30, 666-673.	2.5	20
54	The performance of the microbial fuel cell-coupled constructed wetland system and the influence of the anode bacterial community. <i>Environmental Technology (United Kingdom)</i> , 2016, 37, 1683-1692.	1.2	34

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55	Short-term effects of TiO <sub>2</sub> , CeO <sub>2</sub> , and ZnO nanoparticles on metabolic activities and gene expression of <i>Nitrosomonas europaea</i> . <i>Chemosphere</i> , 2015, 128, 207-215.	4.2	58
56	Evaluation of aerobic co-composting of penicillin fermentation fungi residue with pig manure on penicillin degradation, microbial population dynamics and composting maturity. <i>Bioresource Technology</i> , 2015, 198, 403-409.	4.8	45
57	Influence of wastewater composition on nutrient removal behaviors in the new anaerobic/anoxic/nitrifying/induced crystallization process. <i>Saudi Journal of Biological Sciences</i> , 2014, 21, 71-80.	1.8	8
58	Seasonal and spatial variations in microbial activity at various phylogenetic resolutions at a groundwater-surface water interface. <i>Canadian Journal of Microbiology</i> , 2014, 60, 277-286.	0.8	1
59	Constructed Wetland in a Compact Rural Domestic Wastewater Treatment System for Nutrient Removal. <i>Environmental Engineering Science</i> , 2012, 29, 751-757.	0.8	32
60	Elemental Profiling of Single Bacterial Cells As a Function of Copper Exposure and Growth Phase. <i>PLoS ONE</i> , 2011, 6, e21255.	1.1	10
61	Strategies of <i>Nitrosomonas europaea</i> 19718 to counter low dissolved oxygen and high nitrite concentrations. <i>BMC Microbiology</i> , 2010, 10, 70.	1.3	120
62	Stresses exerted by ZnO, CeO <sub>2</sub> and anatase TiO <sub>2</sub> nanoparticles on the <i>Nitrosomonas europaea</i> . <i>Journal of Colloid and Interface Science</i> , 2010, 348, 329-334.	5.0	96
63	Mechanisms and Specific Directionality of Autotrophic Nitrous Oxide and Nitric Oxide Generation during Transient Anoxia. <i>Environmental Science &amp; Technology</i> , 2010, 44, 1313-1319.	4.6	280
64	Distinctive microbial ecology and biokinetics of autotrophic ammonia and nitrite oxidation in a partial nitrification bioreactor. <i>Biotechnology and Bioengineering</i> , 2008, 100, 1078-1087.	1.7	111
65	Thermodynamic Analysis and Optimization of an Oxyfuel Fluidized Bed Combustion Power Plant for CO <sub>2</sub> Capture. <i>Industrial &amp; Engineering Chemistry Research</i> , 0, , .	1.8	2