# Ran Yu

List of Publications by Year
in descending order

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Version: 2024-02-01

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|---|---|---|---|
| 65<br>papers | 1,571<br>citations | 331670<br>21<br>h-index | 315739<br>38<br>g-index |
| 65<br>all docs | 65<br>docs citations | 65<br>times ranked | 1689<br>citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Mechanisms and Specific Directionality of Autotrophic Nitrous Oxide and Nitric Oxide Generation during Transient Anoxia. Environmental Science & Technology, 2010, 44, 1313-1319. | 10.0 | 280 |
| 2 | Strategies of Nitrosomonas europaea 19718 to counter low dissolved oxygen and high nitrite concentrations. BMC Microbiology, 2010, 10, 70. | 3.3 | 120 |
| 3 | Distinctive microbial ecology and biokinetics of autotrophic ammonia and nitrite oxidation in a partial nitrification bioreactor. Biotechnology and Bioengineering, 2008, 100, 1078-1087. | 3.3 | 111 |
| 4 | Stresses exerted by ZnO, CeO2 and anatase TiO2 nanoparticles on the Nitrosomonas europaea. Journal of Colloid and Interface Science, 2010, 348, 329-334. | 9.4 | 96 |
| 5 | Short-term effects of TiO2, CeO2, and ZnO nanoparticles on metabolic activities and gene expression of Nitrosomonas europaea. Chemosphere, 2015, 128, 207-215. | 8.2 | 58 |
| 6 | New process for copper migration by bioelectricity generation in soil microbial fuel cells. Environmental Science and Pollution Research, 2016, 23, 13147-13154. | 5.3 | 50 |
| 7 | Toxicity of binary mixtures of metal oxide nanoparticles to Nitrosomonas europaea. Chemosphere, 2016, 153, 187-197. | 8.2 | 49 |
| 8 | Evaluation of aerobic co-composting of penicillin fermentation fungi residue with pig manure on penicillin degradation, microbial population dynamics and composting maturity. Bioresource Technology, 2015, 198, 403-409. | 9.6 | 45 |
| 9 | Nitrosomonas europaea adaptation to anoxic-oxic cycling: Insights from transcription analysis, proteomics and metabolic network modeling. Science of the Total Environment, 2018, 615, 1566-1573. | 8.0 | 44 |
| 10 | Isolation and application of predatory Bdellovibrio-and-like organisms for municipal waste sludge biolysis and dewaterability enhancement. Frontiers of Environmental Science and Engineering, 2017, 11, 1. | 6.0 | 35 |
| 11 | Enhanced simultaneous nitrification/denitrification in the biocathode of a microbial fuel cell fed with cyanobacteria solution. Process Biochemistry, 2016, 51, 80-88. | 3.7 | 34 |
| 12 | The performance of the microbial fuel cell-coupled constructed wetland system and the influence of the anode bacterial community. Environmental Technology (United Kingdom), 2016, 37, 1683-1692. | 2.2 | 34 |
| 13 | Investigation on the effect of different additives on anaerobic co-digestion of corn straw and sewage sludge: Comparison of biochar, Fe3O4, and magnetic biochar. Bioresource Technology, 2022, 345, 126532. | 9.6 | 34 |
| 14 | Adaption and recovery of Nitrosomonas europaea to chronic TiO2 nanoparticle exposure. Water Research, 2018, 147, 429-439. | 11.3 | 33 |
| 15 | Constructed Wetland in a Compact Rural Domestic Wastewater Treatment System for Nutrient Removal. Environmental Engineering Science, 2012, 29, 751-757. | 1.6 | 32 |
| 16 | Responses of nitrogen transformation processes and N2O emissions in biological nitrogen removal system to short-term ZnO nanoparticle stress. Science of the Total Environment, 2020, 705, 135916. | 8.0 | 30 |
| 17 | Fates and Impacts of Nanomaterial Contaminants in Biological Wastewater Treatment System: a Review. Water, Air, and Soil Pollution, 2018, 229, 1. | 2.4 | 29 |
| 18 | Physiological and transcriptional responses of Nitrosomonas europaea to TiO2 and ZnO nanoparticles and their mixtures. Environmental Science and Pollution Research, 2016, 23, 13023-13034. | 5.3 | 26 |

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|---|---|---|---|
| 19 | Importance of hydroxylamine in abiotic N2O production during transient anoxia in planktonic axenic Nitrosomonas cultures. Chemical Engineering Journal, 2018, 335, 756-762. | 12.7 | 23 |
| 20 | Regulation of membrane fixation and energy production/conversion for adaptation and recovery of ZnO nanoparticle impacted Nitrosomonas europaea. Applied Microbiology and Biotechnology, 2017, 101, 2953-2965. | 3.6 | 22 |
| 21 | Field study of microbial community structure and dechlorination activity in a multi-solvents co-contaminated site undergoing natural attenuation. Journal of Hazardous Materials, 2022, 423, 127010. | 12.4 | 22 |
| 22 | Emission and Formation Characteristics of Aerosols from Ammonia-Based Wet Flue Gas Desulfurization. Energy & Fuels, 2016, 30, 666-673. | 5.1 | 20 |
| 23 | Biological-based control strategies for MBR membrane biofouling: a review. Water Science and Technology, 2021, 83, 2597-2614. | 2.5 | 20 |
| 24 | Insights into chronic zinc oxide nanoparticle stress responses of biological nitrogen removal system with nitrous oxide emission and its recovery potential. Bioresource Technology, 2021, 327, 124797. | 9.6 | 19 |
| 25 | Electron transfer pathways and kinetic analysis of cathodic simultaneous nitrification and denitrification process in microbial fuel cell system. Environmental Research, 2020, 186, 109505. | 7.5 | 18 |
| 26 | Effects of ZnO nanoparticles on flocculation and sedimentation of activated sludge in wastewater treatment process. Environmental Research, 2021, 192, 110256. | 7.5 | 17 |
| 27 | Mixotrophic Cultivation of Microalgae Using Biogas as the Substrate. Environmental Science & Technology, 2022, 56, 3669-3677. | 10.0 | 17 |
| 28 | 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. Journal of Hazardous Materials, 2022, 439, 129595. | 12.4 | 17 |
| 29 | On-line monitoring of minor oil spills in natural waters using sediment microbial fuel cell sensors equipped with vertical floating cathodes. Science of the Total Environment, 2021, 782, 146549. | 8.0 | 16 |
| 30 | Mechanistic insights into stress response and metabolic activity resilience of<i>Nitrosomonas europaea</i>cultures to long-term CeO<sub>2</sub>nanoparticle exposure. Environmental Science: Nano, 2019, 6, 2215-2227. | 4.3 | 14 |
| 31 | Denitrifying phosphorus removal and microbial community characteristics of two-sludge DEPHANOX system: Effects of COD/TP ratio. Biochemical Engineering Journal, 2021, 172, 108059. | 3.6 | 12 |
| 32 | Pluripotency of endogenous AHL-mediated quorum sensing in adaptation and recovery of biological nitrogen removal system under ZnO nanoparticle long-term exposure. Science of the Total Environment, 2022, 842, 156911. | 8.0 | 12 |
| 33 | Responses and recovery assessment of continuously cultured Nitrosomonas europaea under chronic ZnO nanoparticle stress: Effects of dissolved oxygen. Chemosphere, 2018, 195, 693-701. | 8.2 | 11 |
| 34 | Evaluation of Physicochemical Characteristics in Drinking Water Sources Emphasized on Fluoride: A Case Study of Yancheng, China. International Journal of Environmental Research and Public Health, 2019, 16, 1030. | 2.6 | 11 |
| 35 | Development and application of a novel whole sediment toxicity test using immobilized sediment and Chlorella vulgaris. Ecotoxicology and Environmental Safety, 2020, 189, 109979. | 6.0 | 11 |
| 36 | Elemental Profiling of Single Bacterial Cells As a Function of Copper Exposure and Growth Phase. PLoS ONE, 2011, 6, e21255. | 2.5 | 10 |

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| 37 | Mechanistic Understanding of Predatory Bacteria-Induced Biolysis for Waste Sludge Dewaterability Improvement. Water, Air, and Soil Pollution, 2019, 230, 1. | 2.4 | 10 |
| 38 | Experimental study on anaerobic co-digestion of the individual component of biomass with sewage sludge: methane production and microbial community. Biomass Conversion and Biorefinery, 2022, 12, 5045-5058. | 4.6 | 10 |
| 39 | Influence of wastewater composition on nutrient removal behaviors in the new anaerobicâ€“anoxic/nitrifying/induced crystallization process. Saudi Journal of Biological Sciences, 2014, 21, 71-80. | 3.8 | 8 |
| 40 | Anaerobic Co-digestion of Urban Sewage Sludge with Agricultural Biomass. Waste and Biomass Valorization, 2020, 11, 6199-6209. | 3.4 | 8 |
| 41 | Prediction of methane production from co-digestion of lignocellulosic biomass with sludge based on the major compositions of lignocellulosic biomass. Environmental Science and Pollution Research, 2021, 28, 25808-25818. | 5.3 | 8 |
| 42 | Comprehensive insights into the organic fractions on solidâ€“liquid separation performance of anaerobic digestates from food waste. Science of the Total Environment, 2021, 800, 149608. | 8.0 | 8 |
| 43 | The application of sulfate radical-based advanced oxidation processes in hydrothermal treatment of activated sludge at different stages: A comparative study. Environmental Science and Pollution Research, 2022, 29, 59456-59465. | 5.3 | 8 |
| 44 | Identification and detection sensitivity of Microcystis aeruginosa from mixed and field samples using MALDI-TOF MS. Environmental Monitoring and Assessment, 2018, 190, 712. | 2.7 | 7 |
| 45 | Assessment of Biodegradation in Natural Attenuation Process of Chlorinated Hydrocarbons Contaminated Site: An Anaerobic Microcosm Study. Soil and Sediment Contamination, 2020, 29, 165-179. | 1.9 | 6 |
| 46 | Chelatococcus composti sp. nov., isolated from penicillin fermentation fungi residue with pig manure co-compost. International Journal of Systematic and Evolutionary Microbiology, 2017, 67, 565-569. | 1.7 | 6 |
| 47 | Sludge dewaterability enhancement under low temperature condition with cold-tolerant Bdellovibrio sp. CLL13. Science of the Total Environment, 2022, 820, 153269. | 8.0 | 6 |
| 48 | Distribution, Dissemination and Fate of Antibiotic Resistance Genes During Sewage Sludge Processingâ€”a Review. Water, Air, and Soil Pollution, 2022, 233, 1. | 2.4 | 6 |
| 49 | Aging forming process of Chlorella vulgaris growing medium and its cultivation inhibition mechanism. Bioprocess and Biosystems Engineering, 2020, 43, 1921-1929. | 3.4 | 5 |
| 50 | Modelling of self-sustainable microbial fuel cell type oil sensors based on restricted oxygen transfer and two-population competition. Science of the Total Environment, 2022, 806, 151333. | 8.0 | 5 |
| 51 | Promotion and mechanisms of Bdellovibrio sp. Y38 on membrane fouling alleviation in membrane bioreactor. Environmental Research, 2022, 212, 113593. | 7.5 | 5 |
| 52 | Hollow fiber membrane separation process in the presence of gaseous and particle impurities for post-combustion CO2 capture. International Journal of Green Energy, 2017, 14, 15-23. | 3.8 | 4 |
| 53 | Effects of ozonation on disinfection by-product formation potentials and biostability in a pilot-scale drinking water treatment plant with micro-polluted water. Environmental Technology (United) Tj ETQq1 1 0.784314 rgBT /Overlock 1 | 4.2 | 4 |
| 54 | Mutagenicity Assessment to Pesticide Adjuvants of Toluene, Chloroform, and Trichloroethylene by Ames Test. International Journal of Environmental Research and Public Health, 2021, 18, 8095. | 2.6 | 4 |

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| 55 | Acute Toxicity and Ecotoxicological Risk Assessment of Three Volatile Pesticide Additives on the Earthwormâ€"Eisenia fetida. International Journal of Environmental Research and Public Health, 2021, 18, 11232. | 2.6 | 4 |
| 56 | Optimization of a novel chelerythrine-loaded magnetic Fe3O4/chitosan alpha-ketoglutaric acid system and evaluation of its anti-tumour activities. Journal of Pharmacy and Pharmacology, 2016, 68, 1030-1040. | 2.4 | 3 |
| 57 | Effects of Exogenous N-Acyl-Homoserine Lactone as Signal Molecule on Nitrosomonas Europaea under ZnO Nanoparticle Stress. International Journal of Environmental Research and Public Health, 2019, 16, 3003. | 2.6 | 3 |
| 58 | Mutagenicity evaluation to UV filters of benzophenone-6, benzophenone-8, and 4-methylbenzylidene camphor by Ames test. PLoS ONE, 2021, 16, e0255504. | 2.5 | 3 |
| 59 | Thermodynamic Analysis and Optimization of an Oxyfuel Fluidized Bed Combustion Power Plant for CO<sub>2</sub> Capture. Industrial & Engineering Chemistry Research, 0, , . | 3.7 | 2 |
| 60 | Enhanced dewaterability of waste-activated sludge with zero-valent iron-activated persulfate oxidation under mild hydrothermal conditions. Water Science and Technology, 2022, 85, 851-861. | 2.5 | 2 |
| 61 | Seasonal and spatial variations in microbial activity at various phylogenetic resolutions at a groundwater â€“ surface water interface. Canadian Journal of Microbiology, 2014, 60, 277-286. | 1.7 | 1 |
| 62 | Enhanced Nutrient Removal in A2N Effluent by Reclaimed Biochar Adsorption. International Journal of Environmental Research and Public Health, 2022, 19, 4016. | 2.6 | 1 |
| 63 | Chronic effects of cerium dioxide nanoparticles on biological nitrogen removal and nitrous oxide emission: Insight into impact mechanism and performance recovery potential. Bioresource Technology, 2022, 351, 126966. | 9.6 | 1 |
| 64 | Photocatalytic oxidation degradation of inhibitory fatty acids for aged Chlorella vulgaris cultivation medium recycling. Bioprocess and Biosystems Engineering, 2022, 45, 1211-1222. | 3.4 | 1 |
| 65 | Impacts of ammonia on zinc oxide nanoparticle toxicity toNitrosomonas europaea. IOP Conference Series: Earth and Environmental Science, 2017, 64, 012114. | 0.3 | 0 |