

# Zhongbo Zhou

## List of Publications by Year in descending order

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39  
papers

2,132  
citations

304602

22  
h-index

315616

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39  
docs citations

39  
times ranked

2048  
citing authors

#	ARTICLE	IF	CITATIONS
1	Role of microparticles in membrane fouling from acidogenesis to methanogenesis phases in an anaerobic baffled reactor. <i>Science of the Total Environment</i> , 2022, 806, 150663.	3.9	7
2	Carbon sources driven supernatant micro-particles differentiate in submerged anaerobic membrane bioreactors (AnMBRs). <i>Chemical Engineering Journal</i> , 2022, 430, 133020.	6.6	10
3	Interactive Effects between the Bio-Reactivity Continuum and the Ecological Role of Soluble Microbial Products during Biotransformation. <i>ACS ES&amp;T Water</i> , 2022, 2, 883-894.	2.3	5
4	A Novel Anaerobic Gravity-Driven Dynamic Membrane Bioreactor (AnGDMBR): Performance and Fouling Characterization. <i>Membranes</i> , 2022, 12, 683.	1.4	0
5	Linking dynamics in morphology, components, and microbial communities of biocakes to fouling evolution: A comparative study of anaerobic and aerobic membrane bioreactors. <i>Chemical Engineering Journal</i> , 2021, 413, 127483.	6.6	33
6	Exposure to stressful conditions alters the properties and fouling behavior of suspended microparticles in anaerobic processes. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 106782.	3.3	3
7	Micro-particles—A Neglected but Critical Cause of Different Membrane Fouling between Aerobic and Anaerobic Membrane Bioreactors. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 16680-16690.	3.2	35
8	Molecular traits of phenolic moieties in dissolved organic matter: Linkages with membrane fouling development. <i>Environment International</i> , 2019, 133, 105202.	4.8	14
9	Impacts of diel temperature variations on nitrogen removal and metacommunity of anammox biofilm reactors. <i>Water Research</i> , 2019, 160, 1-9.	5.3	42
10	Comparative evaluation of the sludge characteristics along the height of upflow anaerobic sludge blanket coupled ultrafiltration systems. <i>Biomass and Bioenergy</i> , 2019, 125, 114-122.	2.9	12
11	Size-dependent microbial diversity of sub-visible particles in a submerged anaerobic membrane bioreactor (SANMBR): Implications for membrane fouling. <i>Water Research</i> , 2019, 159, 20-29.	5.3	58
12	Autoinducer-2-mediated quorum sensing partially regulates the toxic shock response of anaerobic digestion. <i>Water Research</i> , 2019, 158, 94-105.	5.3	34
13	Linking Exoproteome Function and Structure to Anammox Biofilm Development. <i>Environmental Science &amp; Technology</i> , 2019, 53, 1490-1500.	4.6	77
14	Roles of quorum sensing in biological wastewater treatment: A critical review. <i>Chemosphere</i> , 2019, 221, 616-629.	4.2	128
15	Removal of sulfadiazine and tetracycline in membrane bioreactors: linking pathway to microbial community shift. <i>Environmental Technology (United Kingdom)</i> , 2019, 40, 134-143.	1.2	23
16	Sunlight irradiation triggers changes in the fouling potentials of natural dissolved organic matter. <i>Science of the Total Environment</i> , 2018, 627, 227-234.	3.9	7
17	Deciphering the core fouling-causing microbiota in a membrane bioreactor: Low abundance but important roles. <i>Chemosphere</i> , 2018, 195, 108-118.	4.2	54
18	The mechanical scouring of bio-carriers improves phosphorus removal and mediates functional microbiomes in membrane bioreactors. <i>Environmental Science: Water Research and Technology</i> , 2018, 4, 241-252.	1.2	12

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19	Increased salinity triggers significant changes in the functional proteins of ANAMMOX bacteria within a biofilm community. <i>Chemosphere</i> , 2018, 207, 655-664.	4.2	33
20	Functional Determinants of Extracellular Polymeric Substances in Membrane Biofouling: Experimental Evidence from Pure-Cultured Sludge Bacteria. <i>Applied and Environmental Microbiology</i> , 2018, 84, .	1.4	46
21	Two-Dimensional FTIR Spectroscopic Characterization of Functional Groups of NaOCl-Exposed Alginate: Insights into Membrane Refouling after Online Chemical Cleaning. <i>ACS Applied Bio Materials</i> , 2018, 1, 593-603.	2.3	11
22	Using UV-vis spectral parameters to characterize the cleaning efficacy and mechanism of sodium hypochlorite (NaOCl) on fouled membranes. <i>Journal of Membrane Science</i> , 2017, 527, 18-25.	4.1	14
23	Fouling in membrane bioreactors: An updated review. <i>Water Research</i> , 2017, 114, 151-180.	5.3	773
24	Selective elimination of chromophoric and fluorescent dissolved organic matter in a full-scale municipal wastewater treatment plant. <i>Journal of Environmental Sciences</i> , 2017, 57, 150-161.	3.2	27
25	Unveiling the Susceptibility of Functional Groups of Poly(ether sulfone)/Polyvinylpyrrolidone Membranes to NaOCl: A Two-Dimensional Correlation Spectroscopic Study. <i>Environmental Science &amp; Technology</i> , 2017, 51, 14342-14351.	4.6	50
26	Chemically induced alterations in the characteristics of fouling-causing bio-macromolecules – Implications for the chemical cleaning of fouled membranes. <i>Water Research</i> , 2017, 108, 115-123.	5.3	77
27	Impact of Coagulant and Flocculant Addition to an Anaerobic Dynamic Membrane Bioreactor (AnDMBR) Treating Waste-Activated Sludge. <i>Membranes</i> , 2017, 7, 18.	1.4	14
28	Characterization and Significance of Sub-Visible Particles and Colloids in a Submerged Anaerobic Membrane Bioreactor (SAnMBR). <i>Environmental Science &amp; Technology</i> , 2016, 50, 12750-12758.	4.6	59
29	Monovalent ion-mediated fouling propensity of model proteins during low-pressure membrane filtration. <i>Separation and Purification Technology</i> , 2015, 152, 200-206.	3.9	11
30	Metaproteomic Analysis of Biocake Proteins To Understand Membrane Fouling in a Submerged Membrane Bioreactor. <i>Environmental Science &amp; Technology</i> , 2015, 49, 1068-1077.	4.6	57
31	Impact of temperature on feed-flow characteristics and filtration performance of an upflow anaerobic sludge blanket coupled ultrafiltration membrane treating municipal wastewater. <i>Water Research</i> , 2015, 83, 71-83.	5.3	76
32	Simultaneous alkali supplementation and fouling mitigation in membrane bioreactors by on-line NaOH backwashing. <i>Journal of Membrane Science</i> , 2014, 457, 120-127.	4.1	34
33	Optimisation and performance of NaClO-assisted maintenance cleaning for fouling control in membrane bioreactors. <i>Water Research</i> , 2014, 53, 1-11.	5.3	65
34	A novel nearly plug-flow membrane bioreactor for enhanced biological nutrient removal. <i>AIChE Journal</i> , 2013, 59, 46-54.	1.8	16
35	Denitrification-caused suppression of soluble microbial products (SMP) in MBRs used for biological nitrogen removal. <i>AIChE Journal</i> , 2013, 59, 3569-3573.	1.8	5
36	Role of microorganism growth phase in the accumulation and characteristics of biomacromolecules (BMM) in a membrane bioreactor. <i>RSC Advances</i> , 2012, 2, 453-460.	1.7	14

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37	Recent Advances in Membrane Bioreactors: Configuration Development, Pollutant Elimination, and Sludge Reduction. <i>Environmental Engineering Science</i> , 2012, 29, 139-160.	0.8	77
38	Microbial Transformation of Biomacromolecules in a Membrane Bioreactor: Implications for Membrane Fouling Investigation. <i>PLoS ONE</i> , 2012, 7, e42270.	1.1	21
39	Characterization of the size-fractionated biomacromolecules: Tracking their role and fate in a membrane bioreactor. <i>Water Research</i> , 2011, 45, 4661-4671.	5.3	98