List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Performance of AnMBRs treating low strength wastewater with different carbon sources at decreasing HRTs and its linkage to <i>Methanosaeta</i> with high specific affinity. Environmental Science: Water Research and Technology, 2022, 8, 849-861.	2.4	1
2	Solids retention time dependent, tunable diatom hierarchical micro/nanostructures and their effect on nutrient removal. Water Research, 2022, 216, 118346.	11.3	4
3	ZnO Nanorod Induced Omniphobic Polypropylene Membrane for Improved Antiwetting Performance in Membrane Distillation. Industrial & Engineering Chemistry Research, 2022, 61, 5963-5970.	3.7	5
4	Arrested methanogenesis: Principles, practices, and perspectives. Advances in Bioenergy, 2022, , .	1.3	1
5	N <sub>2</sub> -Based Determination of Denitrification Kinetics with Confirmation of Simultaneous Denitrification and Fermentation of Carbohydrates. ACS ES&T Engineering, 2022, 2, 1871-1882.	7.6	1
6	Selective removal of pharmaceuticals and personal care products from water by titanium incorporated hierarchical diatoms in the presence of natural organic matter. Water Research, 2021, 189, 116628.	11.3	22
7	Prediction of maximum algal productivity in membrane bioreactors with a light-dependent growth model. Science of the Total Environment, 2021, 753, 141922.	8.0	10
8	Harnessing solar energy using phototrophic microorganisms: A sustainable pathway to bioenergy, biomaterials, and environmental solutions. Renewable and Sustainable Energy Reviews, 2021, 146, 111181.	16.4	30
9	Cyanobacterial community succession and associated cyanotoxin production in hypereutrophic and eutrophic freshwaters. Environmental Pollution, 2021, 290, 118056.	7.5	45
10	Forward osmosis with an algal draw solution to concentrate municipal wastewater and recover resources. Water Environment Research, 2020, 92, 689-697.	2.7	9
11	Specific affinity and relative abundance of methanogens in acclimated anaerobic sludge treating low-strength wastewater. Applied Microbiology and Biotechnology, 2020, 104, 291-302.	3.6	6
12	Zero-valent iron-based technologies for removal of heavy metal(loid)s and organic pollutants from the aquatic environment: Recent advances and perspectives. Journal of Cleaner Production, 2020, 277, 123478.	9.3	82
13	Impact of decreasing hydraulic retention times on the specific affinity of methanogens and their community structures in an anaerobic membrane bioreactor process treating low strength wastewater. Science of the Total Environment, 2020, 739, 140373.	8.0	13
14	Improved chromium reduction and removal from wastewater in continuous flow bioelectrochemical systems. Environmental Science and Pollution Research, 2019, 26, 31945-31955.	5.3	9
15	Higher functionality of bacterial plasmid DNA in water after peracetic acid disinfection compared with chlorination. Science of the Total Environment, 2019, 685, 419-427.	8.0	36
16	Sources of anammox granular sludge and their sustainability in treating low-strength wastewater. Chemosphere, 2019, 226, 229-237.	8.2	8
17	Inhibition of regrowth of planktonic and biofilm bacteria after peracetic acid disinfection. Water Research, 2019, 149, 640-649.	11.3	68
18	An integrated electrochemical and biochemical system for sequential reduction of CO2 to methane. Fuel, 2018, 220, 8-13.	6.4	28

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19	Biodegradation and toxicity of melamine at high activated sludge concentrations in a membrane bioreactor. Water Science and Technology, 2018, 77, 979-987.	2.5	5
20	A novel whole-cell biosensor of Pseudomonas aeruginosa to monitor the expression of quorum sensing genes. Applied Microbiology and Biotechnology, 2018, 102, 6023-6038.	3.6	7
21	Thermodynamic properties of an emerging chemical disinfectant, peracetic acid. Science of the Total Environment, 2018, 621, 948-959.	8.0	92
22	CO <sub>2</sub> Bubbling to Improve Algal Growth, Nutrient Removal, and Membrane Performance in an Algal Membrane Bioreactor. Water Environment Research, 2018, 90, 650-658.	2.7	12
23	Methane production improvement and associated methanogenic assemblages in bioelectrochemically assisted anaerobic digestion. Biochemical Engineering Journal, 2017, 117, 105-112.	3.6	82
24	Solids Retention Time Dependent Phototrophic Growth and Population Changes in Chemostat Cultivation Using Wastewater. Water Environment Research, 2016, 88, 5-12.	2.7	2
25	Evaluation of High Density Algal Cultivation for Secondary Wastewater Polishing. Water Environment Research, 2016, 88, 47-53.	2.7	22
26	Enrichment of denitratating bacteria from a methylotrophic denitrifying culture. Applied Microbiology and Biotechnology, 2016, 100, 10203-10213.	3.6	49
27	Governing factors affecting the impacts of silver nanoparticles on wastewater treatment. Science of the Total Environment, 2016, 572, 852-873.	8.0	49
28	A comparison of algal productivity and nutrient removal capacity between algal CSTR and algal MBR at the same light level under practical and optimal conditions. Ecological Engineering, 2016, 93, 66-72.	3.6	28
29	Effect of self-alkalization on nitrite accumulation in a high-rate denitrification system: Performance, microflora and enzymatic activities. Water Research, 2016, 88, 758-765.	11.3	91
30	Hydrogen production from the dissolution of nano zero valent iron and its effect on anaerobic digestion. Water Research, 2016, 88, 475-480.	11.3	83
31	Silver nanoparticles in aquatic environments: Physiochemical behavior and antimicrobial mechanisms. Water Research, 2016, 88, 403-427.	11.3	252
32	Kinetics of Nutrient Removal by Nano Zero-Valent Iron under Different Biochemical Environments. Water Environment Research, 2015, 87, 483-490.	2.7	6
33	Emission of Carbon Dioxide and Methane from Duckweed Ponds for Stormwater Treatment. Water Environment Research, 2015, 87, 805-812.	2.7	5
34	Roles of SRT and HRT of an algal membrane bioreactor system with a tanks-in-series configuration for secondary wastewater effluent polishing. Ecological Engineering, 2015, 85, 257-264.	3.6	90
35	Application of nano TiO2 modified hollow fiber membranes in algal membrane bioreactors for high-density algae cultivation and wastewater polishing. Bioresource Technology, 2015, 193, 135-141.	9.6	86
36	Effect of operational modes on nitrogen removal and nitrous oxide emission in the process of simultaneous nitrification and denitrification. Chemical Engineering Journal, 2015, 280, 549-557.	12.7	64

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37	Kinetics and methane gas yields of selected C1 to C5 organic acids in anaerobic digestion. Water Research, 2015, 87, 112-118.	11.3	40
38	Evaluation of Anaerobic/Anoxic/Oxic (A <sup>2</sup> /O) and Reverse A <sup>2</sup> /O Processes in Biological Nutrient Removal. Water Environment Research, 2014, 86, 2186-2193.	2.7	14
39	Effect of Short-term Exposure of Selected Aromatic Nitrogen Compounds on Wastewater Treatment. Water Environment Research, 2014, 86, 2166-2175.	2.7	2
40	Filamentous sludge bulking control by nano zero-valent iron in activated sludge treatment systems. Environmental Sciences: Processes and Impacts, 2014, 16, 2721-2728.	3.5	5
41	Characterization and Quantification of Zinc Oxide and Titanium Dioxide Nanoparticles in Foods. Food and Bioprocess Technology, 2014, 7, 456-462.	4.7	24
42	Impact of hydraulic retention time on organic and nutrient removal in a membrane coupled sequencing batch reactor. Water Research, 2014, 55, 12-20.	11.3	59
43	Integration of microbial fuel cell techniques into activated sludge wastewater treatment processes to improve nitrogen removal and reduce sludge production. Chemosphere, 2014, 117, 151-157.	8.2	36
44	Changes in wastewater treatment performance and activated sludge properties of a membrane bioreactor at low temperature operation. Environmental Sciences: Processes and Impacts, 2014, 16, 2199-2207.	3.5	17
45	Rapid evaluation of algal and cyanobacterial activities through specific oxygen production rate measurement. Ecological Engineering, 2014, 73, 439-445.	3.6	29
46	Bacterial response to a continuous long-term exposure of silver nanoparticles at sub-ppm silver concentrations in a membrane bioreactor activated sludge system. Water Research, 2014, 50, 350-358.	11.3	95
47	Characterization and quantification of engineered nanoparticles in food by epithermal instrumental neutron activation analysis and electron microscopy. Journal of Food Measurement and Characterization, 2014, 8, 207-212.	3.2	4
48	Algae-facilitated chemical phosphorus removal during high-density Chlorella emersonii cultivation in a membrane bioreactor. Bioresource Technology, 2014, 153, 383-387.	9.6	113
49	Development of a virus concentration method using lanthanum-based chemical flocculation coupled with modified membrane filtration procedures. Journal of Virological Methods, 2013, 190, 41-48.	2.1	16
50	A comparison of nanosilver and silver ion effects on bioreactor landfill operations and methanogenic population dynamics. Water Research, 2013, 47, 3422-3430.	11.3	49
51	Impact of nano zero valent iron (NZVI) on methanogenic activity and population dynamics in anaerobic digestion. Water Research, 2013, 47, 6790-6800.	11.3	233
52	Quantitative detection of nitrate in water and wastewater by surface-enhanced Raman spectroscopy. Environmental Monitoring and Assessment, 2013, 185, 5673-5681.	2.7	51
53	Nutrient removal and greenhouse gas emissions inÂduckweed treatment ponds. Water Research, 2013, 47, 1390-1398.	11.3	39
54	Fate and toxicity of melamine in activated sludge treatment systems after a long-term sludge adaptation. Water Research, 2013, 47, 2307-2314.	11.3	37

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55	Toward the development of microbial indicators for wetland assessment. Water Research, 2013, 47, 1711-1725.	11.3	108
56	Attachment of silver nanoparticles (AgNPs) onto thin-film composite (TFC) membranes through covalent bonding to reduce membrane biofouling. Journal of Membrane Science, 2013, 441, 73-82.	8.2	319
57	Application of bacteriophages to selectively remove Pseudomonas aeruginosa in water and wastewater filtrationÂsystems. Water Research, 2013, 47, 4507-4518.	11.3	37
58	Impact of metallic and metal oxide nanoparticles on wastewater treatment and anaerobic digestion. Environmental Sciences: Processes and Impacts, 2013, 15, 39-48.	3.5	217
59	Combined treatment of <i>Pseudomonas aeruginosa</i> biofilms with bacteriophages and chlorine. Biotechnology and Bioengineering, 2013, 110, 286-295.	3.3	88
60	Simulated Storm-Water Runoff Treatment by Duckweed and Algae Ponds. Journal of Environmental Engineering, ASCE, 2013, 139, 509-515.	1.4	10
61	Start-Up Performance Evaluation of Submerged Membrane Bioreactors Using Conventional Activated Sludge Process and Modified Luzack-Ettinger Process. Journal of Environmental Engineering, ASCE, 2012, 138, 932-939.	1.4	13
62	Nanosilver impact on methanogenesis and biogas production from municipal solid waste. Waste Maste Management, 2012, 32, 816-825.	7.4	67
63	Potential nanosilver impact on anaerobic digestion at moderate silver concentrations. Water Research, 2012, 46, 1176-1184.	11.3	120
64	Determination of low-density Escherichia coli and Helicobacter pylori suspensions in water. Water Research, 2012, 46, 2140-2148.	11.3	19
65	Temporal and spatial distributions of ammonia-oxidizing archaea and bacteria and their ratio as an indicator of oligotrophic conditions in natural wetlands. Water Research, 2012, 46, 4121-4129.	11.3	127
66	Biodegradation of nitrophenol compounds and the membrane fouling trends in different submerged membrane bioreactors. Journal of Membrane Science, 2012, 415-416, 93-100.	8.2	18
67	Seasonal population changes of ammonia-oxidizing organisms and their relationship to water quality in a constructed wetland. Ecological Engineering, 2012, 40, 100-107.	3.6	55
68	Nitrogen removal from wastewater using membrane aerated microbial fuel cell techniques. Water Research, 2011, 45, 1157-1164.	11.3	81
69	Rapid detection of food- and waterborne bacteria using surface-enhanced Raman spectroscopy coupled with silver nanosubstrates. Applied Microbiology and Biotechnology, 2011, 92, 1053-1061.	3.6	122
70	Bacteria and bacteriophage inactivation by silver and zinc oxide nanoparticles. Colloids and Surfaces B: Biointerfaces, 2011, 85, 161-167.	5.0	109
71	Improving Nitrogen Removal in Two Modified Decentralized Wastewater Systems. Water Environment Research, 2011, 83, 722-730.	2.7	5
72	Nitrifying bacterial growth inhibition in the presence of algae and cyanobacteria. Biotechnology and Bioengineering, 2010, 107, 1004-1011.	3.3	84

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73	Detecting Food―and Waterborne Viruses by Surfaceâ€Enhanced Raman Spectroscopy. Journal of Food Science, 2010, 75, M302-7.	3.1	50
74	Biomass characteristics of two types of submerged membrane bioreactors for nitrogen removal from wastewater. Water Research, 2010, 44, 3313-3320.	11.3	62
75	Lanthanum-based concentration and microrespirometric detection of microbes in water. Water Research, 2010, 44, 3385-3392.	11.3	9
76	Bacterial response to a shock load of nanosilver in an activated sludge treatment system. Water Research, 2010, 44, 5432-5438.	11.3	176
77	Interactions of nanosilver with Escherichia coli cells in planktonic and biofilm cultures. Water Research, 2010, 44, 6095-6103.	11.3	226
78	Environmental Risks of Nanomaterials. , 2009, , 591-618.		0
79	Nanoparticles for Treatment of Chlorinated Organic Contaminants. , 2009, , 93-115.		0
80	Biological Nutrient Removal from On-Site Wastewater Treatment Systems Using a Membrane Aerated Bioreactor. , 2009, , .		0
81	Nitrification Inhibition by UVA Photocatalytic TiO <sub>2</sub> Nanoparticles: The Role of Reactive Oxygen Species on Nanotoxicity. , 2009, , .		0
82	Antibacterial activities of zinc oxide nanoparticles against Escherichia coli O157:H7. Journal of Applied Microbiology, 2009, 107, 1193-1201.	3.1	696
83	Ammonia-oxidizing archaea involved in nitrogen removal. Water Research, 2009, 43, 1801-1809.	11.3	159
84	Role of sulfide and ligand strength in controlling nanosilver toxicity. Water Research, 2009, 43, 1879-1886.	11.3	278
85	Nitrification inhibition by silver nanoparticles. Water Science and Technology, 2009, 59, 1699-1702.	2.5	109
86	Evaporation-controlled chemical enhancement of SERS using a soft polymer substrate. Chemical Communications, 2009, , 6246.	4.1	18
87	Role of Reactive Oxygen Species in Determining Nitrification Inhibition by Metallic/Oxide Nanoparticles. Journal of Environmental Engineering, ASCE, 2009, 135, 1365-1370.	1.4	32
88	A critical comparison of extant batch respirometric and substrate depletion assays for estimation of nitrification biokinetics. Biotechnology and Bioengineering, 2008, 101, 62-72.	3.3	19
89	Electricity generation by a baffle-chamber membraneless microbial fuel cell. Journal of Power Sources, 2008, 179, 27-33.	7.8	102
90	Size Dependent and Reactive Oxygen Species Related Nanosilver Toxicity to Nitrifying Bacteria. Environmental Science & Technology, 2008, 42, 4583-4588.	10.0	1,187

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91	Use of a Fractal-like Gold Nanostructure in Surface-Enhanced Raman Spectroscopy for Detection of Selected Food Contaminants. Journal of Agricultural and Food Chemistry, 2008, 56, 9843-9847.	5.2	131
92	The inhibitory effects of silver nanoparticles, silver ions, and silver chloride colloids on microbial growth. Water Research, 2008, 42, 3066-3074.	11.3	1,190
93	Electrochemical determination of anaerobic microbial decay coefficients. Chemosphere, 2008, 72, 312-318.	8.2	5
94	Spatial Distributions of Copper in Microbial Biofilms by Scanning Electrochemical Microscopy. Environmental Science & Technology, 2007, 41, 936-941.	10.0	55
95	Determination of Spatial Distributions of Zinc and Active Biomass in Microbial Biofilms by Two-Photon Laser Scanning Microscopy. Applied and Environmental Microbiology, 2005, 71, 4014-4021.	3.1	50
96	Biomass characteristics in three sequencing batch reactors treating a wastewater containing synthetic organic chemicals. Water Research, 2005, 39, 710-720.	11.3	48
97	Effect of long-term exposure, biogenic substrate presence, and electron acceptor conditions on the biodegradation of multiple substituted benzoates and phenolates. Water Research, 2005, 39, 3501-3510.	11.3	25
98	Comparison of nitrification inhibition by metals in batch and continuous flow reactors. Water Research, 2004, 38, 3949-3959.	11.3	107
99	Impact of Metal Sorption and Internalization on Nitrification Inhibition. Environmental Science & Technology, 2003, 37, 728-734.	10.0	142
100	Nitrification Inhibition by Ethylenediamine-Based Chelating Agents. Environmental Engineering Science, 2003, 20, 219-228.	1.6	17
101	Effect of Nickel and Cadmium Speciation on Nitrification Inhibition. Environmental Science & Technology, 2002, 36, 3074-3078.	10.0	127
102	Evaluation of a rapid physical–chemical method for the determination of extant soluble COD. Water Research, 2002, 36, 617-624.	11.3	65
103	Impact of Silver Nanoparticles on Wastewater Treatment. Water Intelligence Online, 0, 9, .	0.3	4