

Biological Removal of Nitrogen from Wastewater

Reviews of Environmental Contamination and Toxicology
192, 159-195

DOI: 10.1007/978-0-387-71724-1_5

Citation Report

#	ARTICLE	IF	CITATIONS
1	Simultaneous nitrification and denitrification in step feeding biological nitrogen removal process. Journal of Environmental Sciences, 2007, 19, 1043-1048.	6.1	26
2	Development of a Novel Biofilm Continuous Culture Method for Simultaneous Assessment of Architecture and Gaseous Metabolite Production. Applied and Environmental Microbiology, 2008, 74, 5429-5435.	3.1	29
3	Identification of novel denitrifying bacteria <i>Stenotrophomonas</i> sp. ZZ15 and <i>Oceanimonas</i> sp. YC13 and application for removal of nitrate from industrial wastewater. Biodegradation, 2009, 20, 391-400.	3.0	38
4	Effective and robust partial nitrification to nitrite by real-time aeration duration control in an SBR treating domestic wastewater. Process Biochemistry, 2009, 44, 979-985.	3.7	86
5	Long-term effect of dissolved oxygen on partial nitrification performance and microbial community structure. Bioresource Technology, 2009, 100, 2796-2802.	9.6	194
6	N ₂ O Production during Nitrogen Removal via Nitrite from Domestic Wastewater: Main Sources and Control Method. Environmental Science & Technology, 2009, 43, 9400-9406.	10.0	121
7	Simultaneous nitrification and denitrification in a CEM (cation exchange membrane)-bounded two chamber system. Water Research, 2009, 43, 3820-3826.	11.3	16
8	Visualizing the Effects of Biofilm Structures on the Influx of Fluorescent Material Using Combined Confocal Reflection and Fluorescent Microscopy. Microbes and Environments, 2010, 25, 49-52.	1.6	13
9	Potential roles of anaerobic ammonium and methane oxidation in the nitrogen cycle of wetland ecosystems. Applied Microbiology and Biotechnology, 2010, 86, 1043-1055.	3.6	155
10	Short- and long-term effects of temperature on partial nitrification in a sequencing batch reactor treating domestic wastewater. Journal of Hazardous Materials, 2010, 179, 471-479.	12.4	139
11	Nitrification and denitrification of domestic wastewater using a continuous anaerobic/anoxic/aerobic (A2O) process at ambient temperatures. Bioresource Technology, 2010, 101, 8074-8082.	9.6	89
12	Enhanced nutrient removal in a modified step feed process treating municipal wastewater with different inflow distribution ratios and nutrient ratios. Bioresource Technology, 2010, 101, 9012-9019.	9.6	109
13	Biofilm Fixed Film Systems. Water (Switzerland), 2011, 3, 843-868.	2.7	32
14	Anammox Bacterial Abundance, Biodiversity and Activity in a Constructed Wetland. Environmental Science & Technology, 2011, 45, 9951-9958.	10.0	124
15	O processo ANAMMOX como alternativa para tratamento de Águas residuárias, contendo alta concentraç�o de nitrog�nio. Revista Brasileira De Engenharia Agr�cola E Ambiental, 2011, 15, 1289-1297.	1.1	5
16	Anaerobic ammonia oxidation in a fertilized paddy soil. ISME Journal, 2011, 5, 1905-1912.	9.8	259
17	Quantitative analyses of ammonia-oxidizing Archaea and bacteria in the sediments of four nitrogen-rich wetlands in China. Applied Microbiology and Biotechnology, 2011, 90, 779-787.	3.6	123
18	Effect of nitrite from nitrification on biological phosphorus removal in a sequencing batch reactor treating domestic wastewater. Bioresource Technology, 2011, 102, 6657-6664.	9.6	31

#	ARTICLE	IF	CITATIONS
19	Partial nitrification of sludge reject water using suspended and granular biomass. Journal of Chemical Technology and Biotechnology, 2011, 86, 1480-1487.	3.2	21
20	Denitrifying phosphorus removal and impact of nitrite accumulation on phosphorus removal in a continuous anaerobic–anoxic–aerobic (A2O) process treating domestic wastewater. Enzyme and Microbial Technology, 2011, 48, 134-142.	3.2	81
21	Combination of ion exchange system and biological reactors for simultaneous removal of ammonia and organics. Journal of Environmental Management, 2011, 92, 1148-1153.	7.8	12
22	The Effect of DO on N2O Production in Simultaneous Nitrification and Denitrification Process. , 2011, , .		1
23	Partial Nitrification to Nitrite with Real-Time Aeration Duration Control in an SBR Treating Domestic Wastewater. Advanced Materials Research, 2011, 356-360, 1046-1049.	0.3	1
24	Notice of Retraction: Evaluation of Nitrogen and Phosphate Removal in Full-Scale Modified A ² /O Process. , 2011, , .		0
25	Nitrification and denitrification using biofilters packed with sulfur and limestone at a pilot-scale municipal wastewater treatment plant. Environmental Technology (United Kingdom), 2012, 33, 1271-1278.	2.2	11
26	Nitrogen removal by denitrification during cyanobacterial bloom in Lake Taihu. Journal of Freshwater Ecology, 2012, 27, 243-258.	1.2	77
27	Extremum seeking control of the CANON process - existence of sub-optimal stationary solutions. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 19-26.	0.4	2
28	Development of an in situ dissolved oxygen measurement system and calculation of its effective diffusion coefficient in a biofilm. Analytical Methods, 2012, 4, 2242.	2.7	16
29	Nitrous oxide emissions from the oxidation tank of a pilot activated sludge plant. Water Research, 2012, 46, 3563-3573.	11.3	43
30	Anammox Bacterial Abundance, Activity, and Contribution in Riparian Sediments of the Pearl River Estuary. Environmental Science & Technology, 2012, 46, 8834-8842.	10.0	175
31	Performance of autotrophic nitrogen removal in the granular sludge bed reactor. Bioresource Technology, 2012, 123, 78-85.	9.6	55
32	Microalgae and wastewater treatment. Saudi Journal of Biological Sciences, 2012, 19, 257-275.	3.8	1,047
33	Nitrogen removal from swine wastewater by combining treated effluent with raw manure. Scientia Agricola, 2012, 69, 352-356.	1.2	12
34	Spatial distribution of archaeal and bacterial ammonia oxidizers in the littoral buffer zone of a nitrogen-rich lake. Journal of Environmental Sciences, 2012, 24, 790-799.	6.1	32
35	Nitrite as oxidizing power for <i>p</i> -cresol removal using a denitrifying sludge: kinetic study. Journal of Chemical Technology and Biotechnology, 2013, 88, 2176-2180.	3.2	5
36	Pathways and Organisms Involved in Ammonia Oxidation and Nitrous Oxide Emission. Critical Reviews in Environmental Science and Technology, 2013, 43, 2213-2296.	12.8	76

#	ARTICLE	IF	CITATIONS
37	Partial nitrification in a sequencing batch reactor treating acrylic fiber wastewater. Biodegradation, 2013, 24, 427-435.	3.0	11
38	Nitrification and denitrifying phosphorus removal via nitrite pathway from domestic wastewater in a continuous MUCT process. Bioresource Technology, 2013, 143, 187-195.	9.6	44
39	Ammonium removal by a novel oligotrophic Acinetobacter sp. Y16 capable of heterotrophic nitrification-aerobic denitrification at low temperature. Bioresource Technology, 2013, 146, 44-50.	9.6	207
40	Achieving partial nitrification in a novel six basins alternately operating activated sludge process treating domestic wastewater. Korean Journal of Chemical Engineering, 2013, 30, 2043-2051.	2.7	2
41	High nitrogen removal rate using ANAMMOX process at short hydraulic retention time. Water Science and Technology, 2013, 67, 968-975.	2.5	15
42	Principles of Water Purification. , 2014, , 41-46.		0
43	Extremum seeking control of the CANON process-Existence of multiple stationary solutions. Journal of Process Control, 2014, 24, 348-356.	3.3	10
44	Integration of denitrifying phosphorus removal via nitrite pathway, simultaneous nitrification-denitrification and anammox treating carbon-limited municipal sewage. Bioresource Technology, 2014, 172, 356-364.	9.6	29
45	Ammonia loading rate: an effective variable to control partial nitrification and generate the anaerobic ammonium oxidation influent. Environmental Technology (United Kingdom), 2014, 35, 523-531.	2.2	12
46	Effect of copper on the growth of shrimps Litopenaeus vannamei: water parameters and copper budget in a recirculating system. Chinese Journal of Oceanology and Limnology, 2014, 32, 1092-1104.	0.7	6
47	Population dynamics of nitrifying bacteria for nitrification achieved in Johannesburg (JHB) process treating municipal wastewater. Bioresource Technology, 2014, 162, 30-37.	9.6	46
48	Achievement and Maintenance of Partial Nitrification by Controlling DO concentration. Journal of Japan Society of Civil Engineers Ser G (Environmental Research), 2014, 70, III_233-III_241.	0.1	1
49	Enhancing nitrogen and phosphorus removal in the BUCT-IFAS process by bypass flow strategy. Water Science and Technology, 2015, 72, 528-534.	2.5	6
50	Comparative integrated omics: identification of key functionalities in microbial community-wide metabolic networks. Npj Biofilms and Microbiomes, 2015, 1, 15007.	6.4	82
51	Visualization of Microbiologically Influenced Corrosion by an In-situ Investigation Technique for Metal/Microbial Simultaneous Observation. Zairyo To Kankyo/ Corrosion Engineering, 2015, 64, 492-496.	0.2	2
52	Occurrence, activity and contribution of anammox in some freshwater extreme environments. Environmental Microbiology Reports, 2015, 7, 961-969.	2.4	74
53	The Absorption of Nitrate and Phosphate from Urban Sewage by Blue-Green Algae (<i>Spirulina) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 10 Sciences and Environmental Management, 2015, 19, 353.	0.1	1
54	Oxygen Control and Improved Denitrification Efficiency by Means of a Post-Anoxic Reactor. Sustainability, 2015, 7, 1201-1212.	3.2	11

#	ARTICLE	IF	CITATIONS
55	Bioremediation and Decolourisation of Biomethanated Distillery Spent Wash. , 2015, , 107-117.		0
56	Utilization of Microorganisms for Biopurification of Wastewaters (Agricultural and Industrial): An Environmental Perspective. Microbiology Monographs, 2015, , 21-43.	0.6	1
57	Nitrogen removal performances of a polyvinylidene fluoride membrane-aerated biofilm reactor. International Biodeterioration and Biodegradation, 2015, 102, 49-55.	3.9	33
58	Nitrogen Removal Characteristics of a Newly Isolated Indigenous Aerobic Denitrifier from Oligotrophic Drinking Water Reservoir, Zoogloea sp. N299. International Journal of Molecular Sciences, 2015, 16, 10038-10060.	4.1	91
59	Nitrogen Removal from Micro-Polluted Reservoir Water by Indigenous Aerobic Denitrifiers. International Journal of Molecular Sciences, 2015, 16, 8008-8026.	4.1	25
60	Development of anaerobic osmotic membrane bioreactor for low-strength wastewater treatment at mesophilic condition. Journal of Membrane Science, 2015, 490, 197-208.	8.2	116
61	Regulation of dissolved oxygen from accumulated nitrite during the heterotrophic nitrification and aerobic denitrification of Pseudomonas stutzeri T13. Applied Microbiology and Biotechnology, 2015, 99, 3243-3248.	3.6	92
62	Effect of Cu(II) shock loads on shortcut biological nitrogen removal in a hybrid biofilm nitrogen removal reactor. Biodegradation, 2015, 26, 211-222.	3.0	14
63	Activation of accumulated nitrite reduction by immobilized Pseudomonas stutzeri T13 during aerobic denitrification. Bioresource Technology, 2015, 187, 30-36.	9.6	60
64	Direct and indirect effects of oxygen limitation on nitrification process applied to reject water treatment. Desalination and Water Treatment, 2015, 56, 598-607.	1.0	6
65	Biological treatment of high NH ₄ ⁺ -N wastewater using an ammonia-tolerant photosynthetic bacteria strain (ISASWR2014). Chinese Journal of Chemical Engineering, 2015, 23, 1712-1715.	3.5	20
66	Characteristics of nitrate removal in a bio-ceramsite reactor by aerobic denitrification. Environmental Technology (United Kingdom), 2015, 36, 1457-1463.	2.2	10
67	Anammox: A Sustainable Technology for Nitrogen Removal and Water Recycling. , 2016, , 419-453.		2
68	Alkaline fermentation of waste activated sludge stimulated by saponin: volatile fatty acid production, mechanisms and pilot-scale application. Water Science and Technology, 2016, 74, 2860-2869.	2.5	10
69	Characterization of the genes involved in nitrogen cycling in wastewater treatment plants using DNA microarray and most probable number-PCR. Frontiers of Environmental Science and Engineering, 2016, 10, 1.	6.0	13
70	Recirculation and Aeration Effects on Deammonification Activity. Water, Air, and Soil Pollution, 2016, 227, 1.	2.4	12
71	Identification and denitrification characterization of a novel hypothermia and aerobic nitrite-denitrifying bacterium, <i>Arthrobacter arilaitensis</i> strain Y-10. Desalination and Water Treatment, 2016, 57, 19181-19189.	1.0	10
72	Gray Water Footprint and Water Pollution. SpringerBriefs in Environment, Security, Development and Peace, 2016, , 153-161.	0.1	0

#	ARTICLE	IF	CITATIONS
73	Enrichment and characterization of acid-tolerant nitrifying sludge. <i>Journal of Environmental Management</i> , 2016, 184, 196-203.	7.8	4
74	Assessment of microalgae and nitrifiers activity in a consortium in a continuous operation and the effect of oxygen depletion. <i>Electronic Journal of Biotechnology</i> , 2016, 23, 63-68.	2.2	40
75	Genome-based microbial ecology of anammox granules in a full-scale wastewater treatment system. <i>Nature Communications</i> , 2016, 7, 11172.	12.8	373
76	Efficiency of wastewater treatment in SBR and IFAS-MBSBBR systems in specified technological conditions. <i>Water Science and Technology</i> , 2016, 73, 1349-1356.	2.5	12
77	Nitrogen removal characteristics of indigenous aerobic denitrifiers and changes in the microbial community of a reservoir enclosure system via in situ oxygen enhancement using water lifting and aeration technology. <i>Bioresource Technology</i> , 2016, 214, 63-73.	9.6	36
78	Influence of nitrite accumulation on <i>Candidatus Accumulibacter</i> population structure and enhanced biological phosphorus removal from municipal wastewater. <i>Chemosphere</i> , 2016, 144, 1018-1025.	8.2	25
79	Performance evaluation of a modified step-feed anaerobic/anoxic/oxic process for organic and nutrient removal. <i>Chinese Journal of Chemical Engineering</i> , 2016, 24, 394-403.	3.5	9
80	Novel nitrifiers and comammox in a full-scale hybrid biofilm and activated sludge reactor revealed by metagenomic approach. <i>Applied Microbiology and Biotechnology</i> , 2016, 100, 8225-8237.	3.6	90
81	A novel heterotrophic nitrifying and aerobic denitrifying bacterium, <i>Zobellella taiwanensis</i> DN-7, can remove high-strength ammonium. <i>Applied Microbiology and Biotechnology</i> , 2016, 100, 4219-4229.	3.6	110
82	Performance evaluation of the anammox hybrid reactor seeded with mixed inoculum sludge. <i>Environmental Technology (United Kingdom)</i> , 2016, 37, 1065-1076.	2.2	15
83	Kinetic models for nitrogen inhibition in ANAMMOX and nitrification process on deammonification system at room temperature. <i>Bioresource Technology</i> , 2016, 202, 33-41.	9.6	47
84	Potential application of <i>Alcaligenes faecalis</i> strain No. 4 in mitigating ammonia emissions from dairy wastewater. <i>Bioresource Technology</i> , 2016, 206, 36-42.	9.6	22
85	Inhibition factors in biofilm N removal systems treating wastes generated by amine based CO ₂ capture. <i>International Journal of Greenhouse Gas Control</i> , 2016, 45, 200-206.	4.6	4
86	The use of food waste as a carbon source for on-site treatment of nutrient-rich blackwater from an office block. <i>Environmental Technology (United Kingdom)</i> , 2016, 37, 2368-2378.	2.2	6
87	Partial nitrification and denitrification in a sequencing batch reactor treating high-salinity wastewater. <i>Chemical Engineering Journal</i> , 2016, 288, 207-215.	12.7	99
88	Performance of sludge settling property under nitrite existing conditions. <i>Environmental Technology (United Kingdom)</i> , 2016, 37, 472-477.	2.2	1
89	Measuring nitrification inhibition by metals in wastewater treatment systems: Current state of science and fundamental research needs. <i>Critical Reviews in Environmental Science and Technology</i> , 2016, 46, 249-289.	12.8	25
90	Shortcut biological nitrogen removal in continuous-flow anoxic/aerobic process for treating low-strength ammonium wastewater. <i>Desalination and Water Treatment</i> , 2016, 57, 10905-10915.	1.0	2

#	ARTICLE	IF	CITATIONS
91	Nitrogen loss by anaerobic ammonium oxidation in unconfined aquifer soils. <i>Scientific Reports</i> , 2017, 7, 40173.	3.3	31
92	Simultaneous bisphenol F degradation, heterotrophic nitrification and aerobic denitrification by a bacterial consortium. <i>Journal of Chemical Technology and Biotechnology</i> , 2017, 92, 854-860.	3.2	22
93	Hollow fibre membrane contactors for ammonia recovery: Current status and future developments. <i>Journal of Environmental Chemical Engineering</i> , 2017, 5, 1349-1359.	6.7	139
94	A review on nitrous oxide (N ₂ O) emissions during biological nutrient removal from municipal wastewater and sludge reject water. <i>Science of the Total Environment</i> , 2017, 596-597, 106-123.	8.0	221
95	Nitrite oxidizing bacteria (NOB) dominating in nitrifying community in full-scale biological nutrient removal wastewater treatment plants. <i>AMB Express</i> , 2017, 7, 25.	3.0	110
96	The ManureEcoMine pilot installation: advanced integration of technologies for the management of organics and nutrients in livestock waste. <i>Water Science and Technology</i> , 2017, 75, 1281-1293.	2.5	21
97	Effect of gradual-increasing aeration mode in an aerobic tank on nutrients' removal and functional microbial communities. <i>Environmental Technology (United Kingdom)</i> , 2017, 38, 2621-2628.	2.2	3
98	Stability of partial nitrification in a sequencing batch reactor fed with high ammonium strength old urban landfill leachate. <i>International Biodeterioration and Biodegradation</i> , 2017, 124, 56-61.	3.9	25
99	Electrochemical Removal of Nitrite Using an Activated Copper Rotating Cylinder Electrode. <i>Journal of the Electrochemical Society</i> , 2017, 164, E300-E306.	2.9	4
100	16S rRNA gene-based characterization of bacteria potentially associated with phosphate and carbonate precipitation from a granular autotrophic nitrogen removal bioreactor. <i>Applied Microbiology and Biotechnology</i> , 2017, 101, 817-829.	3.6	14
101	Development of anaerobic ammonium oxidation (anammox) for biological nitrogen removal in domestic wastewater treatment (Case study: Surabaya City, Indonesia). <i>AIP Conference Proceedings</i> , 2017, , .	0.4	3
102	Effects of Inhibition Conditions on Anammox process. <i>IOP Conference Series: Earth and Environmental Science</i> , 2017, 100, 012149.	0.3	13
103	Distribution and Removal of Nonylphenol Ethoxylates and Nonylphenol from Textile Wastewater—A Comparison of a Cotton and a Synthetic Fiber Factory in Vietnam. <i>Water (Switzerland)</i> , 2017, 9, 386.	2.7	21
104	Comparison of N ₂ O Emissions and Gene Abundances between Wastewater Nitrogen Removal Systems. <i>Journal of Environmental Quality</i> , 2017, 46, 931-938.	2.0	16
105	STABILITY OF PARTIAL NITRIFICATION OF POULTRY SLAUGHTERHOUSE WASTEWATER IN A SEQUENTIAL BATCH REACTOR. <i>Engenharia Agricola</i> , 2017, 37, 323-332.	0.7	4
106	Response of greenhouse gas emissions and microbial community dynamics to temperature variation during partial nitrification. <i>Bioresource Technology</i> , 2018, 261, 19-27.	9.6	29
107	Post-endogenous denitrification and phosphorus removal in an alternating anaerobic/oxic/anoxic (AOA) system treating low carbon/nitrogen (C/N) domestic wastewater. <i>Chemical Engineering Journal</i> , 2018, 339, 450-458.	12.7	84
108	Capacitive Membrane Stripping for Ammonia Recovery (CapAmm) from Dilute Wastewaters. <i>Environmental Science and Technology Letters</i> , 2018, 5, 43-49.	8.7	111

#	ARTICLE	IF	CITATIONS
109	Robustness and microbial consortia succession of simultaneous partial nitrification, ANAMMOX and denitrification (SNAD) process for mature landfill leachate treatment under low temperature. Biochemical Engineering Journal, 2018, 132, 112-121.	3.6	45
110	The role of external carbon sources at each stage of an A ² /O process for simultaneously removing nitrogen and phosphorus. Environmental Progress and Sustainable Energy, 2018, 37, 2010-2015.	2.3	1
111	Effect of temperature on microbial diversity and nitrogen removal performance of an anammox reactor treating anaerobically pretreated municipal wastewater. Bioresource Technology, 2018, 258, 208-219.	9.6	90
112	Evaluating the process performance and potential of a high-rate single airlift bioreactor for simultaneous carbon and nitrogen removal through coupling different pathways from a nitrogen-rich wastewater. Bioresource Technology, 2018, 260, 44-52.	9.6	16
113	Improvement of start-up and nitrogen removal of the anammox process in reactors inoculated with conventional activated sludge using biofilm carrier materials. Environmental Technology (United Kingdom), 2018, 39, 105-110.	1.2	5
114	Water quality of stormwater generated from an airport in a cold climate, function of an infiltration pond, and sampling strategy with limited resources. Environmental Monitoring and Assessment, 2018, 190, 4.	2.7	8
115	Fungal biodiversity in sewage water under the effect of calcium hydroxide and hydrogen peroxide into two-steps treatment. International Journal of Environmental Science and Technology, 2018, 15, 957-967.	3.5	0
116	Application of a novel Mass Bio System to remove low-concentration ammonia nitrogen from water bodies. RSC Advances, 2018, 8, 42429-42437.	3.6	3
117	Preparation of activated carbon from oil palm empty fruit bunch by physical activation for treatment of landfill leachate. IOP Conference Series: Materials Science and Engineering, 2018, 458, 012036.	0.6	4
118	Reject water characterization and treatment through short-cut nitrification/denitrification: assessing the effect of temperature and type of substrate. Journal of Chemical Technology and Biotechnology, 2018, 93, 3638-3647.	3.2	11
119	Process performance optimization and mathematical modelling of a SBR-MBBR treatment at low oxygen concentration. Process Biochemistry, 2018, 75, 230-239.	3.7	23
120	Anammox granular sludge in low-ammonium sewage treatment: Not bigger size driving better performance. Water Research, 2018, 142, 147-158.	11.3	183
121	Towards high throughput plasma based water purifiers: design considerations and the pathway towards practical application. Journal Physics D: Applied Physics, 2018, 51, 293001.	2.8	52
122	Pilot-scale bioelectrochemical system for simultaneous nitrogen and carbon removal in urban wastewater treatment plants. Journal of Bioscience and Bioengineering, 2018, 126, 758-763.	2.2	27
123	Effect of Tidal Cycling Rate on the Distribution and Abundance of Nitrogen-Oxidizing Bacteria in a Bench-Scale Fill-and-Drain Bioreactor. Water (Switzerland), 2018, 10, 492.	2.7	1
124	Effects of free nitrous acid treatment conditions on the nitrite pathway performance in mainstream wastewater treatment. Science of the Total Environment, 2018, 644, 360-370.	8.0	56
125	Microbial Nitrogen Cycle Hotspots in the Plant-Bed/Ditch System of a Constructed Wetland with N ₂ O Mitigation. Environmental Science & Technology, 2018, 52, 6226-6236.	10.0	61
126	Evaluation of a novel low-carbon to nitrogen- and temperature-tolerant simultaneously nitrifying&denitrifying bacterium and its use in the treatment of river water. RSC Advances, 2018, 8, 27417-27422.	3.6	12

#	ARTICLE	IF	CITATIONS
127	Phycocyanin Production by <i>Aphanothece microscopica</i> N��geli in Synthetic Medium Supplemented with Sugarcane Vinasse. <i>Applied Biochemistry and Biotechnology</i> , 2019, 187, 129-139.	2.9	11
128	Temporal variation of bacterial population and response to physical and chemical parameters along a petrochemical industry wastewater treatment plant. <i>Anais Da Academia Brasileira De Ciencias</i> , 2019, 91, e20180394.	0.8	2
129	Isolation and identification of a salt-tolerant aerobic denitrifying bacterial strain and its application to saline wastewater treatment in constructed wetlands. <i>Bioresource Technology</i> , 2019, 290, 121725.	9.6	44
130	Novel shortcut biological nitrogen removal method using an algae-bacterial consortium in a photo-sequencing batch reactor: Process optimization and kinetic modelling. <i>Journal of Environmental Management</i> , 2019, 250, 109401.	7.8	31
131	Carbon selection for nitrogen degradation pathway by <i>Stenotrophomonas maltophilia</i> : Based on the balances of nitrogen, carbon and electron. <i>Bioresource Technology</i> , 2019, 294, 122114.	9.6	48
132	High-rate nitrification of saline wastewaters using fixed-bed reactors. <i>Journal of Environmental Management</i> , 2019, 243, 444-452.	7.8	17
133	Trends and resource recovery in biological wastewater treatment system. <i>Bioresource Technology Reports</i> , 2019, 7, 100235.	2.7	46
134	Diversity and bacterial succession of a phototrophic biofilm used as complementary food for shrimp raised in a super-intensive culture. <i>Aquaculture International</i> , 2019, 27, 581-596.	2.2	11
135	Ecofriendly Anaerobic Ammonium Oxidation System: Optimum Operation and Inhibition Control Strategies for Enhanced Nitrogen Removal. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 20847-20856.	3.7	15
136	Cyanobacteria in Reducing Pollution Load from Wastewater and Laboratory Bioassay of Heavy Metals on Ecotoxicity Study: A Review. , 2019, , 1-13.		1
137	The combination use of <i>Candida tropicalis</i> HH8 and <i>Pseudomonas stutzeri</i> LZX301 on nitrogen removal, biofloc formation and microbial communities in aquaculture. <i>Aquaculture</i> , 2019, 500, 50-56.	3.5	27
138	Nitrification via microorganism��immobilized media using polyvinyl alcohol (PVA). <i>Water and Environment Journal</i> , 2020, 34, 203-211.	2.2	1
139	Treatment of wastewater in sewer by <i>Spirogyra</i> sp. green algae: effects of light and carbon sources. <i>Water and Environment Journal</i> , 2020, 34, 311-321.	2.2	11
140	Effect of aeration intensity on the biofilm nitrification process during the production of the white shrimp <i>Litopenaeus vannamei</i> (Boone, 1931) in Biofloc and clear water systems. <i>Aquaculture</i> , 2020, 514, 734516.	3.5	24
141	Anaerobic ammonium oxidation is a major N-sink in aquifer systems around the world. <i>ISME Journal</i> , 2020, 14, 151-163.	9.8	54
142	Enhanced nitrogen removal from low C/N wastewater using biodegradable and inert carriers: Performance and microbial shift. <i>Bioresource Technology</i> , 2020, 300, 122658.	9.6	21
143	A novel universal primer pair for prokaryotes with improved performances for anammox containing communities. <i>Scientific Reports</i> , 2020, 10, 15648.	3.3	9
144	Anammox reactor treating low strength domestic wastewater: a review. <i>IOP Conference Series: Earth and Environmental Science</i> , 2020, 479, 012021.	0.3	1

#	ARTICLE	IF	CITATIONS
145	Facile synthesis of carbon-based nanoporous adsorbent exhibiting high ammonia uptake under low pressure range. <i>Microporous and Mesoporous Materials</i> , 2020, 307, 110460.	4.4	8
146	Involvement of the cbb3-Type Terminal Oxidase in Growth Competition of Bacteria, Biofilm Formation, and in Switching between Denitrification and Aerobic Respiration. <i>Microorganisms</i> , 2020, 8, 1230.	3.6	6
147	The Sensitivity of a Specific Denitrification Rate under the Dissolved Oxygen Pressure. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 9366.	2.6	10
148	Characteristics and Driving Factors of the Aerobic Denitrifying Microbial Community in Baiyangdian Lake, Xiong'an New Area. <i>Microorganisms</i> , 2020, 8, 714.	3.6	15
149	Partial nitrification-reactor configurations, and operational conditions: Performance analysis. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 103984.	6.7	57
150	Impacts of Chosen Parameters on Fe-Dependent Nitrate Reduction in Anammox Consortia: Performance and Bioactivity. <i>Water (Switzerland)</i> , 2020, 12, 1379.	2.7	2
151	Technologies for biological removal and recovery of nitrogen from wastewater. <i>Biotechnology Advances</i> , 2020, 43, 107570.	11.7	194
152	Effect of mixed microbial culture addition on enhanced river water quality: Pollutant removal and microbial community characteristics. <i>Environmental Technology and Innovation</i> , 2020, 18, 100707.	6.1	4
153	Biological Removal of Micropollutants in Human Supply Water Samples Using Nitrifying and Denitrifying Bacteria. <i>Water, Air, and Soil Pollution</i> , 2020, 231, 1.	2.4	1
154	Suitability of SBR for Wastewater Treatment and Reuse: Pilot-Scale Reactor Operated in Different Anoxic Conditions. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 1617.	2.6	35
155	A modeling study on the effects of pH and partial wetting on the removal of ammonia nitrogen from wastewater by membrane contactors. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 104240.	6.7	18
156	Effect of pre-treatment with a tannin-based coagulant and flocculant on a biofilm bacterial community and the nitrification process in a municipal wastewater biofilm treatment unit. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 103679.	6.7	8
157	Efficiency of Nitrifying and Denitrifying Bacteria in Removing Micropollutants in Water Samples. <i>Water, Air, and Soil Pollution</i> , 2020, 231, 1.	2.4	3
158	What's the best way to achieve successful mainstream partial nitrification-anammox application?. <i>Critical Reviews in Environmental Science and Technology</i> , 2021, 51, 1045-1077.	12.8	60
159	Enhanced nitrogen removal by a combination of anammox and heterotrophic denitrification. <i>Water and Environment Journal</i> , 2021, 35, 740-747.	2.2	1
160	Influence of seasonal temperature change on autotrophic nitrogen removal for mature landfill leachate treatment with high-ammonia by partial nitrification-Anammox process. <i>Journal of Environmental Sciences</i> , 2021, 102, 291-300.	6.1	44
161	Microalgal potential for nutrient-energy-wastewater nexus: Innovations, current trends and future directions. <i>Energy and Environment</i> , 2021, 32, 604-634.	4.6	12
162	Mainstream partial nitrification-anammox as post-treatment of anaerobic effluents under warm climate regions: a critical review of the reported drawbacks. <i>Environmental Technology Reviews</i> , 2021, 10, 143-160.	4.3	3

#	ARTICLE	IF	CITATIONS
163	Emerging investigator series: thermodynamic and energy analysis of nitrogen and phosphorous recovery from wastewaters. <i>Environmental Science: Water Research and Technology</i> , 2021, 7, 2075-2088.	2.4	4
164	Simultaneous nitrification/denitrification and desulfurization of wastewater polluted with ammonium, COD and sulfide: effectiveness of a new up-flow vertical hybrid reactor. <i>3 Biotech</i> , 2021, 11, 123.	2.2	4
165	Abundance and Functional Importance of Complete Ammonia Oxidizers and Other Nitrifiers in a Riparian Ecosystem. <i>Environmental Science & Technology</i> , 2021, 55, 4573-4584.	10.0	38
166	Green technology for bioremediation of the eutrophication phenomenon in aquatic ecosystems: a review. <i>African Journal of Aquatic Science</i> , 2021, 46, 274-292.	1.1	26
167	Comparison of nitrogen removal efficiency and microbial characteristics of modified two-stage A/O, A2/O and SBR processes. <i>Environmental Geochemistry and Health</i> , 2021, 43, 4687-4699.	3.4	1
168	Removing ammonium from water using porous resins: influence of polymer structure, ion exchange capacity and porosity. <i>DYNA (Colombia)</i> , 2021, 88, 237-246.	0.4	2
169	Technologies to recover nitrogen from livestock manure - A review. <i>Science of the Total Environment</i> , 2021, 784, 147098.	8.0	42
170	Toxic Effect of Ammonium Nitrogen on the Nitrification Process and Acclimatisation of Nitrifying Bacteria to High Concentrations of NH ₄ -N in Wastewater. <i>Energies</i> , 2021, 14, 5329.	3.1	6
171	Role of heterotrophic nitrifiers and aerobic denitrifiers in simultaneous nitrification and denitrification process: a nonconventional nitrogen removal pathway in wastewater treatment. <i>Letters in Applied Microbiology</i> , 2022, 74, 159-184.	2.2	21
172	Denitrification of leachate using composted domestic waste at different levels of stability: A batch test investigation. <i>Scientific African</i> , 2021, 14, e00989.	1.5	0
173	Advances in Studies on Microbiota Involved in Nitrogen Removal Processes and Their Applications in Wastewater Treatment. <i>Frontiers in Microbiology</i> , 2021, 12, 746293.	3.5	16
174	Treatment of Synthetic Ammonium Sulfate Wastewater by Mixed Culture of <i>Chlorella pyrenoidosa</i> and Enriched Nitrobacteria. <i>Current Microbiology</i> , 2021, 78, 3891-3900.	2.2	4
175	Bioprocess performance, transformation pathway, and bacterial community dynamics in an immobilized cell bioreactor treating fludioxonil-contaminated wastewater under microaerophilic conditions. <i>Environmental Science and Pollution Research</i> , 2021, , 1.	5.3	3
176	Ammonia adsorption and recovery from swine wastewater permeate using naturally occurring clinoptilolite. <i>Journal of Water Process Engineering</i> , 2021, 43, 102234.	5.6	18
177	Mitigating nitrite accumulation during SO ₂ -based autotrophic denitrification: Balancing nitrate-nitrite reduction rate with thiosulfate as external electron donor. <i>Environmental Research</i> , 2022, 204, 112016.	7.5	20
178	Screening and Cultivation of Oligotrophic Aerobic Denitrifying Bacteria. <i>Handbook of Environmental Chemistry</i> , 2016, , 451-473.	0.4	3
179	Mainstream-sidestream wastewater switching promotes anammox nitrogen removal rate in organic-rich, low-temperature streams. <i>Environmental Technology (United Kingdom)</i> , 2021, 42, 3073-3082.	2.2	77
180	Aplicação de efluente tratado de suinocultura para diluição de dejetos suínos e remoção de nitrogênio por desnitrificação. <i>Engenharia Agrícola</i> , 2011, 31, 388-398.	0.7	3

#	ARTICLE	IF	CITATIONS
181	Fundamentals of the Biological Processes for Nitrogen Removal. Advances in Environmental Engineering and Green Technologies Book Series, 2017, , 112-146.	0.4	1
182	Efficient nitrogen removal of mangrove constructed wetlands: Enhancing heterotrophic nitrification-aerobic denitrification microflora through quorum sensing. Chemical Engineering Journal, 2022, 430, 133048.	12.7	23
183	Charting the complexity of the activated sludge microbiome through a hybrid sequencing strategy. Microbiome, 2021, 9, 205.	11.1	29
184	Improved Strains for Biological Treatment of Wastewater. Computer Aided Chemical Engineering, 2012, , 895-899.	0.5	0
185	Biological nutrient removal using a novel five-step continuous flow activated sludge process technology. Environmental Protection Engineering, 2013, 39, .	0.1	0
186	Integration of Industrial Control with Analytical Expert Measurements for Cooperative Operations. Lecture Notes in Computer Science, 2014, , 80-87.	1.3	1
187	Multi-Stage Declined Aeration Promoting Partial Nitrification in a Sequencing Biofilm Batch Reactor. Journal of Life Sciences and Technologies, 2014, 2, .	0.0	0
188	Optimization of Retention Time of Microbial Community Structure of Activated Sludge Process. American Journal of Water Resources, 2014, 2, 149-158.	0.6	0
189	Cooperative Operating Control for Stimulation of Simultaneously Cultivated Bioprocesses. Lecture Notes in Computer Science, 2015, , 185-192.	1.3	0
190	Evaluation of Field Applicability of Phosphorus Removal Capability and Growth of Bacillus sp. 3434 BRRJ According to Environmental Factors. Han'guk T'oyang Piryo Hakhoe Chi Han'guk T'oyang Piryo Hakhoe, 2016, 49, 87-92.	0.9	1
191	Nutrient Removal and Algal Community Variation from Urban River with the Isolated Microalgal Strains <i>Chlorella</i> sp. and <i>Scenedesmus</i> sp.. Journal of Water Resource and Protection, 2018, 10, 884-895.	0.8	0
192	Engineering biological nitrogen removal in wastewater treatment via the control of nitrite oxidising bacteria using free nitrous acid. Microbiology Australia, 2018, 39, 47.	0.4	0
193	Performance of Anoxic-Oxic Sequencing Batch Reactor for Nitrification and Aerobic Denitrification. , 0, , .		3
194	Simultaneous nitrification and denitrification conducted by Halomonas venusta MA-ZP17-13 under low temperature conditions. Acta Oceanologica Sinica, 2021, 40, 94-104.	1.0	9
195	Application of intermittent aeration in nitrogen removal process: development, advantages and mechanisms. Chemical Engineering Journal, 2022, 430, 133184.	12.7	47
196	Performance of biological activated carbon (BAC) filtration for the treatment of secondary effluent: A pilot-scale study. Journal of Environmental Management, 2022, 302, 114026.	7.8	4
197	Nitrate removal from wastewater generated in wet Flue Gas Desulphurisation Systems (FGD) in coal-fired power generation using the heterotrophic denitrification method. Ochrona Srodowiska I Zasobow Naturalnych, 2020, 31, 27-34.	0.3	0
198	Seasonal Ammonia Removal Performance by Biofilm in a Water Treatment Plant. Japanese Journal of Water Treatment Biology, 2021, 57, 67-78.	0.1	0

#	ARTICLE	IF	CITATIONS
200	Dissolved Organic Nitrogen, Ndma, and Ndma Precursors' Removal During Simulated Soil Aquifer Treatment. SSRN Electronic Journal, 0, , .	0.4	0
201	Towards a more labor-saving way in microbial ammonium oxidation: A review on complete ammonia oxidization (comammox). Science of the Total Environment, 2022, 829, 154590.	8.0	53
202	Urban wastewater treatment by microalgae, bacteria and microalgae-bacteria system (Laboratory-scale study). Urban Water Journal, 2022, 19, 161-172.	2.1	2
203	Nitrogen Removal by an Anaerobic Iron-Dependent Ammonium Oxidation (Feammox) Enrichment: Potential for Wastewater Treatment. Water (Switzerland), 2021, 13, 3462.	2.7	11
204	Sewage-Water Treatment and Sewage-Sludge Management with Power Production as Bioenergy with Carbon Capture System: A Review. Processes, 2022, 10, 788.	2.8	12
207	Technologies for Biological and Bioelectrochemical Removal of Inorganic Nitrogen from Wastewater: A Review. Nitrogen, 2022, 3, 298-313.	1.3	3
210	Diagnostic Method for Enhancing Nitrogen and Phosphorus Removal in Cyclic Activated Sludge Technology (CAST) Process Wastewater Treatment Plant. Water (Switzerland), 2022, 14, 2253.	2.7	1
211	Bio-enhanced contact oxidation process using a heterotrophic nitrifying-aerobic denitrifying strain. Biotechnology and Biotechnological Equipment, 2022, 36, 533-544.	1.3	1
212	Influence mechanisms of macro-infrastructure on micro-environments in the recirculating aquaculture system and biofloc technology system. Reviews in Aquaculture, 2023, 15, 991-1009.	9.0	9
213	Incorporation of the sulfur cycle in sustainable nitrogen removal systems - A review. Journal of Cleaner Production, 2022, 372, 133495.	9.3	17
214	Characterization of the nitrogen-transforming microbial community in the biofilms of a full-scale rotating biological contactor system treating wastewater from a fresh market building. Environmental Science: Water Research and Technology, 2022, 8, 1845-1858.	2.4	1
215	Advancing the understanding of mainstream shortcut nitrogen removal: resource efficiency, carbon redirection, and plant capacity. Environmental Science: Water Research and Technology, 2022, 8, 2398-2410.	2.4	1
216	Nitrogen Pollution Originating from Wastewater and Agriculture: Advances in Treatment and Management. Reviews of Environmental Contamination and Toxicology, 2022, 260, .	1.3	1
217	Effects of antimicrobials in anammox mediated systems: critical review. Water Science and Technology, 2022, 86, 1551-1564.	2.5	2
218	The Performance and Mechanism of Sludge Reduction by the Bioaugmentation Approach. Life, 2022, 12, 1649.	2.4	0
219	Bacteriophages in wastewater treatment: can they be an approach to optimize biological treatment processes?. Environmental Science and Pollution Research, 0, , .	5.3	0
220	Evaluation of the stability of shortcut nitrification-denitrification process based on online specific oxygen uptake rate monitoring. Chinese Chemical Letters, 2023, 34, 108074.	9.0	2
221	Nitrogen removal based on anammox-based processes applied to mature landfill leachate diluted with domestic wastewater: a review. Environmental Technology Reviews, 2022, 11, 243-265.	4.3	3

#	ARTICLE	IF	CITATIONS
222	Towards a better and more complete understanding of microbial nitrogen transformation processes in the rhizosphere of subsurface flow constructed wetlands: Effect of plant root activities. Chemical Engineering Journal, 2023, 463, 142455.	12.7	6
223	Ubiquitous occurrence and functional dominance of comammox Nitrospira in full-scale wastewater treatment plants. Water Research, 2023, 236, 119931.	11.3	10
224	Ammonia recovery from natural rubber processing wastewater by hollow fiber membrane contactors: Mass transfer in short- and long-term operations and fouling characteristics. Korean Journal of Chemical Engineering, 0, , .	2.7	0
225	Relationship between denitrification and anammox rates and N_2 production with substrate consumption and pH in a riparian zone. Environmental Technology (United Kingdom), 0, , 1-10.	2.2	0
226	Strategies for Nitrate and Nitrite Removal: Closing the Loop Using Membrane Electroreduction and Catalytic Reduction Processes. Environmental Engineering Science, 0, , .	1.6	0
227	Creating Value from Acidogenic Biohydrogen Fermentation Effluents: An Innovative Approach for a Circular Bioeconomy That Is Acquired via a Microbial Biorefinery-Based Framework. Fermentation, 2023, 9, 602.	3.0	2
228	Exploring denitrification and anammox processes in the saturated zone of passively operated vegetated biofiltration systems. Environmental Science: Water Research and Technology, 0, , .	2.4	0
229	Simultaneous aerobic nitrogen and phosphate removal capability of novel salt-tolerant strain, Pseudomonas mendocina A4: Characterization, mechanism and application potential. Bioresource Technology, 2024, 393, 130047.	9.6	0
230	Anammox-based technologies: A review of recent advances, mechanism, and bottlenecks. Journal of Environmental Sciences, 0, 148, 151-173.	6.1	0