

# Kartik Chandran

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5997057/publications.pdf>

Version: 2024-02-01

154  
papers

7,043  
citations

53939

47  
h-index

71088

80  
g-index

158  
all docs

158  
docs citations

158  
times ranked

6345  
citing authors

#	ARTICLE	IF	CITATIONS
1	Size dependent impacts of a model microplastic on nitrification induced by interaction with nitrifying bacteria. <i>Journal of Hazardous Materials</i> , 2022, 424, 127363.	6.5	14
2	Glycerol-driven denitratation: process kinetics, microbial ecology, and operational controls. <i>Environmental Science: Water Research and Technology</i> , 2022, 8, 729-741.	1.2	4
3	Enrichment of a denitrating microbial community through kinetic limitation. <i>Environment International</i> , 2022, 161, 107113.	4.8	0
4	Startup strategies for mainstream anammox polishing in moving bed biofilm reactors. <i>Water Environment Research</i> , 2022, 94, .	1.3	9
5	Mainstream partial denitrificationâ€œanammox in sand and expanded clay deepâ€œbed polishing filters under practical loading rates and backwashing conditions. <i>Water Environment Research</i> , 2022, 94, .	1.3	5
6	Microbial response on the first full-scale DEMONÂ® biomass transfer for mainstream deammonification. <i>Water Research</i> , 2022, 218, 118517.	5.3	12
7	Accelerating Microbial Activity of Soil Aquifer Treatment by Hydrogen Peroxide. <i>Energies</i> , 2022, 15, 3852.	1.6	1
8	Time to actâ€œassessing variations in qPCR analyses in biological nitrogen removal with examples from partial nitrification/anammox systems. <i>Water Research</i> , 2021, 190, 116604.	5.3	8
9	Critical Analysis of Biomass Retention Strategies in Mainstream and Sidestream ANAMMOX-Mediated Nitrogen Removal Systems. <i>Environmental Science &amp; Technology</i> , 2021, 55, 9-24.	4.6	68
10	Nitrogen Recovery via Aquaponicsâ€œBioponics: Engineering Considerations and Perspectives. <i>ACS ES&amp;T Engineering</i> , 2021, 1, 326-339.	3.7	19
11	Combination of <sup>15</sup> N Tracer and Microbial Analyses Discloses N <sub>2</sub> O Sink Potential of the Anammox Community. <i>Environmental Science &amp; Technology</i> , 2021, 55, 9231-9242.	4.6	23
12	Enhanced lipid accumulation in <i>Metschnikowia pulcherrima</i> using volatile fatty acids under non-sterile repeated batch cultivation. <i>International Biodeterioration and Biodegradation</i> , 2021, 163, 105256.	1.9	6
13	Process Performance and Microbial Community Structures in Three Anammox-Mediated Systems with Different Mixing Conditions. <i>Journal of Environmental Chemical Engineering</i> , 2021, , 106466.	3.3	1
14	Temporal triggers of N <sub>2</sub> O emissions during cyclical and seasonal variations of a full-scale sequencing batch reactor treating municipal wastewater. <i>Science of the Total Environment</i> , 2021, 797, 149093.	3.9	6
15	Effect of influent carbon fractionation and reactor configuration on mainstream nitrogen removal and NOB out-selection. <i>Environmental Science: Water Research and Technology</i> , 2020, 6, 691-701.	1.2	5
16	Stimulating Nitrogen Biokinetics with the Addition of Hydrogen Peroxide to Secondary Effluent Biofiltration. <i>Clean Technologies</i> , 2020, 2, 53-73.	1.9	4
17	Impact of Inoculum Type on the Microbial Community and Power Performance of Urine-Fed Microbial Fuel Cells. <i>Microorganisms</i> , 2020, 8, 1921.	1.6	18
18	Resilience and limitations of MFC anodic community when exposed to antibacterial agents. <i>Bioelectrochemistry</i> , 2020, 134, 107500.	2.4	23

#	ARTICLE	IF	CITATIONS
19	Interactions between substrate characteristics and microbial communities on biogas production yield and rate. <i>Bioresource Technology</i> , 2020, 303, 122934.	4.8	25
20	Nitrogen removal from water resource recovery facilities using partial nitrification, denitrification-anaerobic ammonia oxidation (PANDA). <i>Science of the Total Environment</i> , 2020, 724, 138283.	3.9	7
21	Development of efficient electroactive biofilm in urine-fed microbial fuel cell cascades for bioelectricity generation. <i>Journal of Environmental Management</i> , 2020, 258, 109992.	3.8	39
22	Sustainability metrics for assessing water resource recovery facilities of the future. <i>Water Environment Research</i> , 2019, 91, 45-53.	1.3	29
23	Bioaugmented methanol production using ammonia oxidizing bacteria in a continuous flow process. <i>Bioresource Technology</i> , 2019, 279, 101-107.	4.8	23
24	Nitrate residual as a key parameter to efficiently control partial denitrification coupling with anammox. <i>Water Environment Research</i> , 2019, 91, 1455-1465.	1.3	46
25	Studying the effect of bioswales on nutrient pollution in urban combined sewer systems. <i>Science of the Total Environment</i> , 2019, 665, 944-958.	3.9	9
26	Impact of carbon source and COD/N on the concurrent operation of partial denitrification and anammox. <i>Water Environment Research</i> , 2019, 91, 185-197.	1.3	78
27	Comammox Functionality Identified in Diverse Engineered Biological Wastewater Treatment Systems. <i>Environmental Science and Technology Letters</i> , 2018, 5, 110-116.	3.9	118
28	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
29	<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
30	Metatranscriptomic Investigation of Adaptation in NO and N <sub>2</sub> O Production From a Lab-Scale Nitrification Process Upon Repeated Exposure to Anoxic Aerobic Cycling. <i>Frontiers in Microbiology</i> , 2018, 9, 3012.	1.5	10
31	Aquaponic Systems for Sustainable Resource Recovery: Linking Nitrogen Transformations to Microbial Communities. <i>Environmental Science &amp; Technology</i> , 2018, 52, 12728-12739.	4.6	51
32	Greenhouse gas emissions from membrane bioreactors: analysis of a two-year survey on different MBR configurations. <i>Water Science and Technology</i> , 2018, 78, 896-903.	1.2	7
33	Structural and Functional Interrogation of Selected Biological Nitrogen Removal Systems in the United States, Denmark, and Singapore Using Shotgun Metagenomics. <i>Frontiers in Microbiology</i> , 2018, 9, 2544.	1.5	7
34	The role of influent organic carbon-to-nitrogen (COD/N) ratio in removal rates and shaping microbial ecology in soil aquifer treatment (SAT). <i>Water Research</i> , 2018, 146, 197-205.	5.3	15
35	Identification of Bisphenol A-Assimilating Microorganisms in Mixed Microbial Communities Using <sup>13</sup> C-DNA Stable Isotope Probing. <i>Environmental Science &amp; Technology</i> , 2018, 52, 9128-9135.	4.6	17
36	Supernatant organics from anaerobic digestion after thermal hydrolysis cause direct and/or diffusional activity loss for nitrification and anammox. <i>Water Research</i> , 2018, 143, 270-281.	5.3	67

#	ARTICLE	IF	CITATIONS
37	Achieving low TN effluent by operating AvN control coupled with partial denitrification-anammox control. Proceedings of the Water Environment Federation, 2018, 2018, 153-156.	0.0	1
38	Assessing Biodegradation and Exposure Effects of Bisphenol-A with Microbial Communities Involved in Biological Nutrient Removal. Proceedings of the Water Environment Federation, 2018, 2018, 51-55.	0.0	0
39	Enrichment of a Glycerol-Driven Denitrification Process: System Performance and Microbial Ecology. Proceedings of the Water Environment Federation, 2018, 2018, 4673-4677.	0.0	0
40	Nitrogen transformations in aquaponic systems: A review. Aquacultural Engineering, 2017, 76, 9-19.	1.4	174
41	Discovery and metagenomic analysis of an anammox bacterial enrichment related to <i>Candidatus Brocadia caroliniensis</i> in a full-scale glycerol-fed nitrification-denitrification separate centrate treatment process. Water Research, 2017, 111, 265-273.	5.3	122
42	Molecular and Kinetic Characterization of Planktonic <i>Nitrospira</i> spp. Selectively Enriched from Activated Sludge. Environmental Science & Technology, 2017, 51, 2720-2728.	4.6	59
43	Polyhydroxyalkanoates, triacylglycerides and glycogen in a high rate activated sludge A-stage system. Chemical Engineering Journal, 2017, 316, 350-360.	6.6	23
44	The role of extracellular polymeric substances on carbon capture in a high rate activated sludge A-stage system. Chemical Engineering Journal, 2017, 322, 428-434.	6.6	46
45	Modulation of Nitrous Oxide (N <sub>2</sub> O) Accumulation by Primary Metabolites in Denitrifying Cultures Adapting to Changes in Environmental C and N. Environmental Science & Technology, 2017, 51, 13678-13688.	4.6	22
46	Nitric Oxide Production Interferes with Aqueous Dissolved Oxygen Sensors. Environmental Engineering Science, 2017, 34, 687-691.	0.8	6
47	Optimization of partial denitrification to maximize nitrite production using glycerol as an external carbon source – impact of influent COD:N ratio. Proceedings of the Water Environment Federation, 2017, 2017, 1356-1360.	0.0	4
48	Implementation and process analysis of pilot scale multi-phase anaerobic fermentation and digestion of faecal sludge in Ghana. Gates Open Research, 2017, 1, 10.	2.0	2
49	Presence and functional potential of comammox in full-scale wastewater treatment systems across the globe. Proceedings of the Water Environment Federation, 2017, 2017, 4060-4068.	0.0	0
50	Recovery of bioplastics from municipal solids and food waste through an anaerobic fermentation platform. Proceedings of the Water Environment Federation, 2017, 2017, 4310-4314.	0.0	0
51	Functional Gene Expression as an Indicator of Nitrification Inhibition by Cu(II). Proceedings of the Water Environment Federation, 2017, 2017, 4048-4053.	0.0	0
52	Physiological and molecular characterization of continuous cometabolic methanol production by a nitrifying enrichment consortium. Proceedings of the Water Environment Federation, 2017, 2017, 4035-4038.	0.0	0
53	Full-scale evaluation of carbon and energy efficient combined nitrogen and phosphorus removal with advanced aeration and settleability control.. Proceedings of the Water Environment Federation, 2017, 2017, 110-115.	0.0	0
54	Metagenomics of Anaerobic Food Waste Fermentation. Proceedings of the Water Environment Federation, 2017, 2017, 4041-4047.	0.0	0

#	ARTICLE	IF	CITATIONS
55	Comparison of Antibiotic Resistance Removal Efficiencies Using Ozone Disinfection under Different pH and Suspended Solids and Humic Substance Concentrations. <i>Environmental Science &amp; Technology</i> , 2016, 50, 7590-7600.	4.6	91
56	Nitrogen polishing in a fully anoxic anammox MBBR treating mainstream nitrification-denitrification effluent. <i>Biotechnology and Bioengineering</i> , 2016, 113, 635-642.	1.7	25
57	Draft Genome Sequence of the Oleaginous Yeast <i>Cryptococcus albidus</i> var. <i>albidus</i> . <i>Genome Announcements</i> , 2016, 4, .	0.8	5
58	Innovative Global Solutions for Bioenergy Production. <i>Environmental Engineering Science</i> , 2016, 33, 841-842.	0.8	2
59	Assessment of nitric oxide (NO) redox reactions contribution to nitrous oxide (N <sub>2</sub> O) formation during nitrification using a multispecies metabolic network model. <i>Biotechnology and Bioengineering</i> , 2016, 113, 1124-1136.	1.7	11
60	Use of functional gene expression and respirometry to study wastewater nitrification activity after exposure to low doses of copper. <i>Environmental Science and Pollution Research</i> , 2016, 23, 6443-6450.	2.7	18
61	Nitrification inhibition by hexavalent chromium Cr(VI) – Microbial ecology, gene expression and off-gas emissions. <i>Water Research</i> , 2016, 92, 254-261.	5.3	26
62	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.	6.6	25
63	Characterization and mitigation of nitrous oxide (N <sub>2</sub> O) emissions from partial and full nitrification BNR processes based on post-anoxic aeration control. <i>Biotechnology and Bioengineering</i> , 2015, 112, 2241-2247.	1.7	7
64	Ammonia-based intermittent aeration control optimized for efficient nitrogen removal. <i>Biotechnology and Bioengineering</i> , 2015, 112, 2060-2067.	1.7	34
65	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
66	The effect of inorganic carbon on microbial interactions in a biofilm nitrification-anammox process. <i>Water Research</i> , 2015, 70, 246-254.	5.3	64
67	Microbial conversion of synthetic and food waste-derived volatile fatty acids to lipids. <i>Bioresource Technology</i> , 2015, 188, 49-55.	4.8	66
68	Model based predictive control for energy efficient biological nitrification process with minimal nitrous oxide production. <i>Chemical Engineering Journal</i> , 2015, 268, 300-310.	6.6	8
69	Effect of plant species on nitrogen recovery in aquaponics. <i>Bioresource Technology</i> , 2015, 188, 92-98.	4.8	161
70	Evaluating two concepts for the modelling of intermediates accumulation during biological denitrification in wastewater treatment. <i>Water Research</i> , 2015, 71, 21-31.	5.3	69
71	Factors controlling nitrous oxide emissions from a full-scale activated sludge system in the tropics. <i>Environmental Science and Pollution Research</i> , 2015, 22, 11840-11849.	2.7	16
72	Effects of temperature on nitrous oxide (N <sub>2</sub> O) emission from intensive aquaculture system. <i>Science of the Total Environment</i> , 2015, 518-519, 16-23.	3.9	46

#	ARTICLE	IF	CITATIONS
73	Impact of Heavy Metals on Transcriptional and Physiological Activity of Nitrifying Bacteria. <i>Environmental Science &amp; Technology</i> , 2015, 49, 13454-13462.	4.6	95
74	Nitric oxide preferentially inhibits nitrite oxidizing communities with high affinity for nitrite. <i>Journal of Biotechnology</i> , 2015, 193, 120-122.	1.9	24
75	Factors impacting biotransformation kinetics of trace organic compounds in lab-scale activated sludge systems performing nitrification and denitrification. <i>Journal of Hazardous Materials</i> , 2015, 282, 116-124.	6.5	49
76	Differentiation in the microbial ecology and activity of suspended and attached bacteria in a nitritation-anammox process. <i>Biotechnology and Bioengineering</i> , 2015, 112, 272-279.	1.7	74
77	Recovery and Utilization of Volatile Fatty Acids from Faecal Sludge for <i>in-situ</i> Pathogen Reduction and Biodiesel Production through Microbial Lipid Synthesis. <i>Proceedings of the Water Environment Federation</i> , 2015, 2015, 5928-5929.	0.0	0
78	Operation and Process Analysis of Faecal Sludge Anaerobic Fermentation and Digestion in Ghana. <i>Proceedings of the Water Environment Federation</i> , 2015, 2015, 936-939.	0.0	0
79	Concurrent Nitrification and Methanol Production Using Nitrifying Activated Sludge in a Continuous Flow Process. <i>Proceedings of the Water Environment Federation</i> , 2015, 2015, 5666-5667.	0.0	0
80	Who Eats Microconstituents? Application of DNA Stable Isotope Probing to Identify Bacteria Assimilating Bisphenol A. <i>Proceedings of the Water Environment Federation</i> , 2015, 2015, 4960-4968.	0.0	0
81	Biofilm population diversity and distribution in Anammox MBBR Pilot at 26th Ward WWTP in Brooklyn, New York: Molecular analysis and mathematical modelling. <i>Proceedings of the Water Environment Federation</i> , 2014, 2014, 4605-4620.	0.0	1
82	Influence of carbohydrate addition on nitrogen transformations and greenhouse gas emissions of intensive aquaculture system. <i>Science of the Total Environment</i> , 2014, 470-471, 193-200.	3.9	75
83	Transfer of antibiotic resistance plasmids in pure and activated sludge cultures in the presence of environmentally representative micro-contaminant concentrations. <i>Science of the Total Environment</i> , 2014, 468-469, 813-820.	3.9	92
84	Structural Characterization of the Glycoprotein GP2 Core Domain from the CAS Virus, a Novel Arenavirus-Like Species. <i>Journal of Molecular Biology</i> , 2014, 426, 1452-1468.	2.0	25
85	Cell entry by a novel European filovirus requires host endosomal cysteine proteases and Niemann-Pick C1. <i>Virology</i> , 2014, 468-470, 637-646.	1.1	55
86	Microbial ecology of denitrification in biological wastewater treatment. <i>Water Research</i> , 2014, 64, 237-254.	5.3	517
87	Technologies and Framework for Resource Recovery and Beneficiation from Human Waste. , 2014, , 415-430.		3
88	Clarifying the regulation of NO/N <sub>2</sub> O production in <i>Nitrosomonas europaea</i> during anoxic-oxic transition via flux balance analysis of a metabolic network model. <i>Water Research</i> , 2014, 60, 267-277.	5.3	47
89	Control of aeration, aerobic SRT and COD input for mainstream nitritation/denitritation. <i>Water Research</i> , 2014, 57, 162-171.	5.3	356
90	Factors influencing the density of aerobic granular sludge. <i>Applied Microbiology and Biotechnology</i> , 2013, 97, 7459-7468.	1.7	65

#	ARTICLE	IF	CITATIONS
91	Biodegradation and Cometabolic Modeling of Selected Beta Blockers during Ammonia Oxidation. <i>Environmental Science &amp; Technology</i> , 2013, 47, 12835-12843.	4.6	88
92	Nitrogen transformations in intensive aquaculture system and its implication to climate change through nitrous oxide emission. <i>Bioresource Technology</i> , 2013, 130, 314-320.	4.8	60
93	High-Rate, High-Yield Production of Methanol by Ammonia-Oxidizing Bacteria. <i>Environmental Science &amp; Technology</i> , 2013, 47, 3167-3173.	4.6	57
94	Evaluating four mathematical models for nitrous oxide production by autotrophic ammonia-oxidizing bacteria. <i>Biotechnology and Bioengineering</i> , 2013, 110, 153-163.	1.7	85
95	Electrochemical Reduction of Nitrite to Ammonia for Use in a Bioreactor. <i>Journal of the Electrochemical Society</i> , 2013, 160, G19-G26.	1.3	8
96	Segregation of Microbial Populations and Activities in the Biofilm and Suspended Phases of a Completely Autotrophic Nitrogen-Removal over Nitrite (CANON) Bioreactor. <i>Proceedings of the Water Environment Federation</i> , 2013, 2013, 18-25.	0.0	0
97	NOB Repression for Mainstream Nitrite-Shunt and Deammonification: A Pilot Study. <i>Proceedings of the Water Environment Federation</i> , 2013, 2013, 1959-1981.	0.0	1
98	Impact of Cr(VI) on nitrification – Physiology, microbial ecology and gene expression. <i>Proceedings of the Water Environment Federation</i> , 2013, 2013, 245-249.	0.0	1
99	Endocytic Pathways Involved in Filovirus Entry: Advances, Implications and Future Directions. <i>Viruses</i> , 2012, 4, 3647-3664.	1.5	15
100	Proteomics unravels metabolic strategies employed by nitrate reducing bacteria during growth on different carbon sources. <i>Proceedings of the Water Environment Federation</i> , 2012, 2012, 3683-3698.	0.0	0
101	Comparative proteomic analysis reveals insights into anoxic growth of <i>Methylobacterium</i> <i>ethylovorsatilis</i> universalis... <i>FAM</i> 5 on methanol and ethanol. <i>Environmental Microbiology</i> , 2012, 14, 2935-2945.	1.8	38
102	Nitrous Oxide (N <sub>2</sub> O) Emission from Aquaculture: A Review. <i>Environmental Science &amp; Technology</i> , 2012, 46, 6470-6480.	4.6	227
103	Filovirus entry into cells – new insights. <i>Current Opinion in Virology</i> , 2012, 2, 206-214.	2.6	73
104	Biomass Production from Electricity Using Ammonia as an Electron Carrier in a Reverse Microbial Fuel Cell. <i>PLoS ONE</i> , 2012, 7, e44846.	1.1	42
105	Comparison of Partial and Full Nitrification Processes Applied for Treating High-Strength Nitrogen Wastewaters: Microbial Ecology through Nitrous Oxide Production. <i>Environmental Science &amp; Technology</i> , 2011, 45, 2734-2740.	4.6	124
106	Emissions Credits: Opportunity To Promote Integrated Nitrogen Management in the Wastewater Sector. <i>Environmental Science &amp; Technology</i> , 2011, 45, 6239-6246.	4.6	23
107	Nitrous oxide production by lithotrophic ammonia-oxidizing bacteria and implications for engineered nitrogen-removal systems. <i>Biochemical Society Transactions</i> , 2011, 39, 1832-1837.	1.6	160
108	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



#	ARTICLE	IF	CITATIONS
109	Anaerobic Acidogenesis of Food Waste and Application as a Supplemental Carbon Source for Denitrification. Proceedings of the Water Environment Federation, 2011, 2011, 1615-1623.	0.0	0
110	Alcohol dehydrogenase expression as a biomarker of denitrification activity in activated sludge using methanol and glycerol as electron donors. Environmental Microbiology, 2011, 13, 2930-2938.	1.8	20
111	Effect of oxic and anoxic conditions on nitrous oxide emissions from nitrification and denitrification processes. Biotechnology and Bioengineering, 2011, 108, 2036-2045.	1.7	77
112	Protocol for the Measurement of Nitrous Oxide Fluxes from Biological Wastewater Treatment Plants. Methods in Enzymology, 2011, 486, 369-385.	0.4	14
113	Determination of Denitrification Kinetics on Methanol and Glycerol Using Gene Expression Biomarkers. Proceedings of the Water Environment Federation, 2011, 2011, 1624-1632.	0.0	0
114	Respirometric Microbioreactors for Biokinetic Estimation of Nitrification Activity. Proceedings of the Water Environment Federation, 2011, 2011, 3173-3178.	0.0	0
115	Nitrous Oxide Emissions from Activated Sludge at Full-scale Wastewater Treatment Facilities in the United States. Proceedings of the Water Environment Federation, 2010, 2010, 686-696.	0.0	1
116	Differences in GHG and Nitric Oxide Emissions for Activated Sludge and Biofilm ENR processes based on Aeration, MCRT, Mixing and Media, and Control of Emissions and Nutrients by Enhancing Process Models in an ENR Operations Simulator (Aquifas). Proceedings of the Water Environment Federation, 2010, 2010, 3539-3562.	0.0	0
117	Improving our Understanding of the Differences between Fixed and Moving Bed Media IFAS Systems for Design, Operations and for Real Time Control of Plants (in Aquifas+) to Simultaneously Enhance Nutrient Removal and Minimize GHG Emissions. Proceedings of the Water Environment Federation, 2010, 2010, 4179-4199.	0.0	0
118	Spatial and Temporal Variability in Atmospheric Nitrous Oxide Generation and Emission from Full-scale Biological Nitrogen Removal and Non-BNR Processes. Water Environment Research, 2010, 82, 2362-2372.	1.3	39
119	Diagnosis and Quantification of Glycerol Assimilating Denitrifying Bacteria in an Integrated Fixed-Film Activated Sludge Reactor via <sup>13</sup> C DNA Stable-Isotope Probing. Environmental Science & Technology, 2010, 44, 8943-8949.	4.6	35
120	Strategies of Nitrosomonas europaea 19718 to counter low dissolved oxygen and high nitrite concentrations. BMC Microbiology, 2010, 10, 70.	1.3	120
121	Factors promoting emissions of nitrous oxide and nitric oxide from denitrifying sequencing batch reactors operated with methanol and ethanol as electron donors. Biotechnology and Bioengineering, 2010, 106, 390-398.	1.7	132
122	Stresses exerted by ZnO, CeO <sub>2</sub> and anatase TiO <sub>2</sub> nanoparticles on the Nitrosomonas europaea. Journal of Colloid and Interface Science, 2010, 348, 329-334.	5.0	96
123	Mechanisms and Specific Directionality of Autotrophic Nitrous Oxide and Nitric Oxide Generation during Transient Anoxia. Environmental Science & Technology, 2010, 44, 1313-1319.	4.6	280
124	N <sub>2</sub> O Emissions from Activated Sludge Processes, 2008~2009: Results of a National Monitoring Survey in the United States. Environmental Science & Technology, 2010, 44, 4505-4511.	4.6	345
125	Impact of inocula and growth mode on the molecular microbial ecology of anaerobic ammonia oxidation (anammox) bioreactor communities. Water Research, 2010, 44, 5005-5013.	5.3	117
126	Propensity of activated sludge to amplify or attenuate tetracycline resistance genes and tetracycline resistant bacteria: A mathematical modeling approach. Chemosphere, 2010, 78, 1071-1077.	4.2	59



#	ARTICLE	IF	CITATIONS
127	Linking Community Profiles, Gene Expression and N-Removal in Anammox Bioreactors Treating Municipal Anaerobic Digestion Reject Water. <i>Environmental Science &amp; Technology</i> , 2010, 44, 6110-6116.	4.6	121
128	Impact of varying electron donors on the molecular microbial ecology and biokinetics of methylophilic denitrifying bacteria. <i>Biotechnology and Bioengineering</i> , 2009, 102, 1527-1536.	1.7	79
129	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
130	A critical comparison of extant batch respirometric and substrate depletion assays for estimation of nitrification biokinetics. <i>Biotechnology and Bioengineering</i> , 2008, 101, 62-72.	1.7	19
131	Gene Expression Analysis of Aerobic Autotrophic Denitrification by <i>Nitrosomonas europaea</i> . <i>Proceedings of the Water Environment Federation</i> , 2008, 2008, 3168-3179.	0.0	1
132	Molecular and biokinetic characterization of methylophilic denitrification using nitrate and nitrite as terminal electron acceptors. <i>Water Science and Technology</i> , 2008, 58, 359-365.	1.2	50
133	Physiological State, Growth Mode, and Oxidative Stress Play a Role in Cd(II)-Mediated Inhibition of <i>Nitrosomonas europaea</i> 19718. <i>Applied and Environmental Microbiology</i> , 2008, 74, 2447-2453.	1.4	64
134	Biokinetic Characterization of the Acceleration Phase in Autotrophic Ammonia Oxidation. <i>Water Environment Research</i> , 2008, 80, 732-739.	1.3	14
135	Effectiveness of switching disinfectants for nitrification control. <i>Journal - American Water Works Association</i> , 2008, 100, 104-115.	0.2	32
136	POPULATION DYNAMICS, BIKINETICS AND GASEOUS NITROGEN PRODUCTION FROM PARTIAL NITRIFICATION REACTORS OPERATED UNDER OXYGEN LIMITED CONDITIONS. <i>Proceedings of the Water Environment Federation</i> , 2007, 2007, 3079-3090.	0.0	0
137	MICROBIAL ECOLOGY, BIKINETICS AND THERMODYNAMICS OF METHYLOPHILIC DENITRIFICATION. <i>Proceedings of the Water Environment Federation</i> , 2007, 2007, 5056-5063.	0.0	0
138	PARTIAL NITRIFICATION UNDER OXYGEN LIMITED CONDITIONS RESULTS IN SIGNIFICANT GREENHOUSE GAS PRODUCTION. <i>Proceedings of the Water Environment Federation</i> , 2007, 2007, 861-871.	0.0	0
139	Cd(II) Mediated Inhibition of <i>Nitrosomonas europaea</i> is Linked to Oxidative Stress and is Impacted by Physiological State and Growth Mode. <i>Proceedings of the Water Environment Federation</i> , 2006, 2006, 6533-6547.	0.0	1
140	Observation and mathematical description of the acceleration phenomenon in batch respirograms associated with ammonium oxidation. <i>Water Science and Technology</i> , 2006, 54, 181-188.	1.2	19
141	Optimizing experimental design to estimate ammonia and nitrite oxidation biokinetic parameters from batch respirograms. <i>Water Research</i> , 2005, 39, 4969-4978.	5.3	36
142	Comparison of nitrification inhibition by metals in batch and continuous flow reactors. <i>Water Research</i> , 2004, 38, 3949-3959.	5.3	107
143	Impact of Metal Sorption and Internalization on Nitrification Inhibition. <i>Environmental Science &amp; Technology</i> , 2003, 37, 728-734.	4.6	142
144	Nitrification Inhibition by Ethylenediamine-Based Chelating Agents. <i>Environmental Engineering Science</i> , 2003, 20, 219-228.	0.8	17

#	ARTICLE	IF	CITATIONS
145	Effect of Nickel and Cadmium Speciation on Nitrification Inhibition. Environmental Science & Technology, 2002, 36, 3074-3078.	4.6	127
146	Evaluation of a rapid physical-chemical method for the determination of extant soluble COD. Water Research, 2002, 36, 617-624.	5.3	65
147	Estimating biomass yield coefficients for autotrophic ammonia and nitrite oxidation from batch respirograms. Water Research, 2001, 35, 3153-3156.	5.3	32
148	Optimal Experimental Design for Estimating Ammonia and Nitrite Oxidation Biokinetics from Batch Respirograms. Proceedings of the Water Environment Federation, 2001, 2001, 545-560.	0.0	1
149	EVALUATION OF NITRIFICATION INHIBITION BY HEAVY METALS NICKEL AND ZINC. Proceedings of the Water Environment Federation, 2001, 2001, 581-595.	0.0	0
150	Single-step nitrification models erroneously describe batch ammonia oxidation profiles when nitrite oxidation becomes rate limiting. Biotechnology and Bioengineering, 2000, 68, 396-406.	1.7	92
151	Applicability of two-step models in estimating nitrification kinetics from batch respirograms under different relative dynamics of ammonia and nitrite oxidation. Biotechnology and Bioengineering, 2000, 70, 54-64.	1.7	38
152	Single-step nitrification models erroneously describe batch ammonia oxidation profiles when nitrite oxidation becomes rate limiting. , 2000, 68, 396.		2
153	Applicability of two-step models in estimating nitrification kinetics from batch respirograms under different relative dynamics of ammonia and nitrite oxidation. Biotechnology and Bioengineering, 2000, 70, 54-64.	1.7	1
154	Chemical characterization of faecal sludge in the Kumasi metropolis, Ghana. Gates Open Research, 0, 1, 12.	2.0	12