

Kartik Chandran

List of Publications by Citations

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153
papers

5,317
citations

42
h-index

70
g-index

158
ext. papers

6,222
ext. citations

7.7
avg, IF

6.02
L-index

#	Paper	IF	Citations
153	Microbial ecology of denitrification in biological wastewater treatment. <i>Water Research</i> , 2014 , 64, 237-254	14.5	367
152	N ₂ O emissions from activated sludge processes, 2008-2009: results of a national monitoring survey in the United States. <i>Environmental Science & Technology</i> , 2010 , 44, 4505-11	10.3	300
151	Control of aeration, aerobic SRT and COD input for mainstream nitrification/denitrification. <i>Water Research</i> , 2014 , 57, 162-71	12.5	257
150	Mechanisms and specific directionality of autotrophic nitrous oxide and nitric oxide generation during transient anoxia. <i>Environmental Science & Technology</i> , 2010 , 44, 1313-9	10.3	235
149	Nitrous oxide (N ₂ O) emission from aquaculture: a review. <i>Environmental Science & Technology</i> , 2012 , 46, 6470-80	10.3	158
148	Nitrous oxide production by lithotrophic ammonia-oxidizing bacteria and implications for engineered nitrogen-removal systems. <i>Biochemical Society Transactions</i> , 2011 , 39, 1832-7	5.1	137
147	Impact of metal sorption and internalization on nitrification inhibition. <i>Environmental Science & Technology</i> , 2003 , 37, 728-34	10.3	131
146	Nitrogen transformations in aquaponic systems: A review. <i>Aquacultural Engineering</i> , 2017 , 76, 9-19	3	117
145	Effect of plant species on nitrogen recovery in aquaponics. <i>Bioresource Technology</i> , 2015 , 188, 92-8	11	114
144	Effect of nickel and cadmium speciation on nitrification inhibition. <i>Environmental Science & Technology</i> , 2002 , 36, 3074-8	10.3	114
143	Factors promoting emissions of nitrous oxide and nitric oxide from denitrifying sequencing batch reactors operated with methanol and ethanol as electron donors. <i>Biotechnology and Bioengineering</i> , 2010 , 106, 390-8	4.9	112
142	Comparison of partial and full nitrification processes applied for treating high-strength nitrogen wastewaters: microbial ecology through nitrous oxide production. <i>Environmental Science & Technology</i> , 2011 , 45, 2734-40	10.3	107
141	Linking community profiles, gene expression and N-removal in anammox bioreactors treating municipal anaerobic digestion reject water. <i>Environmental Science & Technology</i> , 2010 , 44, 6110-6	10.3	103
140	Comparison of nitrification inhibition by metals in batch and continuous flow reactors. <i>Water Research</i> , 2004 , 38, 3949-59	12.5	103
139	Strategies of <i>Nitrosomonas europaea</i> 19718 to counter low dissolved oxygen and high nitrite concentrations. <i>BMC Microbiology</i> , 2010 , 10, 70	4.5	94
138	Distinctive microbial ecology and biokinetics of autotrophic ammonia and nitrite oxidation in a partial nitrification bioreactor. <i>Biotechnology and Bioengineering</i> , 2008 , 100, 1078-87	4.9	94
137	Impact of inocula and growth mode on the molecular microbial ecology of anaerobic ammonia oxidation (anammox) bioreactor communities. <i>Water Research</i> , 2010 , 44, 5005-13	12.5	92

136	Stresses exerted by ZnO, CeO ₂ and anatase TiO ₂ nanoparticles on the <i>Nitrosomonas europaea</i> . <i>Journal of Colloid and Interface Science</i> , 2010 , 348, 329-34	9.3	86
135	Single-step nitrification models erroneously describe batch ammonia oxidation profiles when nitrite oxidation becomes rate limiting. <i>Biotechnology and Bioengineering</i> , 2000 , 68, 396-406	4.9	78
134	Biodegradation and cometabolic modeling of selected beta blockers during ammonia oxidation. <i>Environmental Science & Technology</i> , 2013 , 47, 12835-43	10.3	72
133	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, 813-20	10.2	72
132	Discovery and metagenomic analysis of an anammox bacterial enrichment related to <i>Candidatus "Brocadia caroliniensis"</i> in a full-scale glycerol-fed nitritation-denitrification separate centrate treatment process. <i>Water Research</i> , 2017 , 111, 265-273	12.5	71
131	Evaluating four mathematical models for nitrous oxide production by autotrophic ammonia-oxidizing bacteria. <i>Biotechnology and Bioengineering</i> , 2013 , 110, 153-63	4.9	69
130	Impact of varying electron donors on the molecular microbial ecology and biokinetics of methylophilic denitrifying bacteria. <i>Biotechnology and Bioengineering</i> , 2009 , 102, 1527-36	4.9	69
129	Impact of Heavy Metals on Transcriptional and Physiological Activity of Nitrifying Bacteria. <i>Environmental Science & Technology</i> , 2015 , 49, 13454-62	10.3	68
128	Effect of oxic and anoxic conditions on nitrous oxide emissions from nitrification and denitrification processes. <i>Biotechnology and Bioengineering</i> , 2011 , 108, 2036-45	4.9	65
127	Filovirus entry into cells - new insights. <i>Current Opinion in Virology</i> , 2012 , 2, 206-14	7.5	64
126	Comammox Functionality Identified in Diverse Engineered Biological Wastewater Treatment Systems. <i>Environmental Science and Technology Letters</i> , 2018 , 5, 110-116	11	62
125	The effect of inorganic carbon on microbial interactions in a biofilm nitritation-anammox process. <i>Water Research</i> , 2015 , 70, 246-54	12.5	59
124	Evaluating two concepts for the modelling of intermediates accumulation during biological denitrification in wastewater treatment. <i>Water Research</i> , 2015 , 71, 21-31	12.5	57
123	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	10.2	56
122	Propensity of activated sludge to amplify or attenuate tetracycline resistance genes and tetracycline resistant bacteria: a mathematical modeling approach. <i>Chemosphere</i> , 2010 , 78, 1071-7	8.4	56
121	Comparison of Antibiotic Resistance Removal Efficiencies Using Ozone Disinfection under Different pH and Suspended Solids and Humic Substance Concentrations. <i>Environmental Science & Technology</i> , 2016 , 50, 7590-600	10.3	56
120	Microbial conversion of synthetic and food waste-derived volatile fatty acids to lipids. <i>Bioresource Technology</i> , 2015 , 188, 49-55	11	54
119	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, 2447-53	4.8	52

118	Evaluation of a rapid physical-chemical method for the determination of extant soluble COD. <i>Water Research</i> , 2002 , 36, 617-24	12.5	51
117	Cell entry by a novel European filovirus requires host endosomal cysteine proteases and Niemann-Pick C1. <i>Virology</i> , 2014 , 468-470, 637-646	3.6	50
116	Factors influencing the density of aerobic granular sludge. <i>Applied Microbiology and Biotechnology</i> , 2013 , 97, 7459-68	5.7	50
115	Differentiation in the microbial ecology and activity of suspended and attached bacteria in a nitrification-anammox process. <i>Biotechnology and Bioengineering</i> , 2015 , 112, 272-9	4.9	49
114	Short-term effects of TiO ₂ , CeO ₂ , and ZnO nanoparticles on metabolic activities and gene expression of <i>Nitrosomonas europaea</i> . <i>Chemosphere</i> , 2015 , 128, 207-15	8.4	49
113	High-rate, high-yield production of methanol by ammonia-oxidizing bacteria. <i>Environmental Science & Technology</i> , 2013 , 47, 3167-73	10.3	44
112	Clarifying the regulation of NO/N ₂ 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	12.5	43
111	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, 116-24	12.8	42
110	Nitrogen transformations in intensive aquaculture system and its implication to climate change through nitrous oxide emission. <i>Bioresource Technology</i> , 2013 , 130, 314-20	11	41
109	Molecular and Kinetic Characterization of Planktonic <i>Nitrospira</i> spp. Selectively Enriched from Activated Sludge. <i>Environmental Science & Technology</i> , 2017 , 51, 2720-2728	10.3	39
108	Molecular and biokinetic characterization of methylotrophic denitrification using nitrate and nitrite as terminal electron acceptors. <i>Water Science and Technology</i> , 2008 , 58, 359-65	2.2	39
107	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	12.5	38
106	Biomass production from electricity using ammonia as an electron carrier in a reverse microbial fuel cell. <i>PLoS ONE</i> , 2012 , 7, e44846	3.7	36
105	Effects of temperature on nitrous oxide (N ₂ O) emission from intensive aquaculture system. <i>Science of the Total Environment</i> , 2015 , 518-519, 16-23	10.2	35
104	Optimizing experimental design to estimate ammonia and nitrite oxidation biokinetic parameters from batch respirograms. <i>Water Research</i> , 2005 , 39, 4969-78	12.5	35
103	Applicability of two-step models in estimating nitrification kinetics from batch respirograms under different relative dynamics of ammonia and nitrite oxidation. <i>Biotechnology and Bioengineering</i> , 2000 , 70, 54-64	4.9	34
102	Spatial and temporal variability in atmospheric nitrous oxide generation and emission from full-scale biological nitrogen removal and non-BNR processes. <i>Water Environment Research</i> , 2010 , 82, 2362-72	2.8	33
101	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	2.8	32

100	Comparative proteomic analysis reveals insights into anoxic growth of <i>Methyloversatilis universalis</i> FAM5 on methanol and ethanol. <i>Environmental Microbiology</i> , 2012 , 14, 2935-45	5.2	30
99	Diagnosis and quantification of glycerol assimilating denitrifying bacteria in an integrated fixed-film activated sludge reactor via ¹³ C DNA stable-isotope probing. <i>Environmental Science & Technology</i> , 2010 , 44, 8943-9	10.3	30
98	<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	10.2	29
97	Estimating biomass yield coefficients for autotrophic ammonia and nitrite oxidation from batch respirograms. <i>Water Research</i> , 2001 , 35, 3153-6	12.5	28
96	Aquaponic Systems for Sustainable Resource Recovery: Linking Nitrogen Transformations to Microbial Communities. <i>Environmental Science & Technology</i> , 2018 , 52, 12728-12739	10.3	28
95	The role of extracellular polymeric substances on carbon capture in a high rate activated sludge A-stage system. <i>Chemical Engineering Journal</i> , 2017 , 322, 428-434	14.7	26
94	Ammonia-based intermittent aeration control optimized for efficient nitrogen removal. <i>Biotechnology and Bioengineering</i> , 2015 , 112, 2060-7	4.9	24
93	Sustainability Metrics for Assessing Water Resource Recovery Facilities of the Future. <i>Water Environment Research</i> , 2018 , 91, 45	2.8	23
92	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, 1452-68	6.5	23
91	Emissions credits: opportunity to promote integrated nitrogen management in the wastewater sector. <i>Environmental Science & Technology</i> , 2011 , 45, 6239-46	10.3	23
90	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	11.1	21
89	Nitrate residual as a key parameter to efficiently control partial denitrification coupling with anammox. <i>Water Environment Research</i> , 2019 , 91, 1455-1465	2.8	21
88	Development of efficient electroactive biofilm in urine-fed microbial fuel cell cascades for bioelectricity generation. <i>Journal of Environmental Management</i> , 2020 , 258, 109992	7.9	20
87	Bioaugmented methanol production using ammonia oxidizing bacteria in a continuous flow process. <i>Bioresource Technology</i> , 2019 , 279, 101-107	11	19
86	Nitric oxide preferentially inhibits nitrite oxidizing communities with high affinity for nitrite. <i>Journal of Biotechnology</i> , 2015 , 193, 120-2	3.7	19
85	Nitrification inhibition by hexavalent chromium Cr(VI)--Microbial ecology, gene expression and off-gas emissions. <i>Water Research</i> , 2016 , 92, 254-61	12.5	19
84	Nitrogen polishing in a fully anoxic anammox MBBR treating mainstream nitritation-denitrification effluent. <i>Biotechnology and Bioengineering</i> , 2016 , 113, 635-42	4.9	19
83	Modulation of Nitrous Oxide (NO) Accumulation by Primary Metabolites in Denitrifying Cultures Adapting to Changes in Environmental C and N. <i>Environmental Science & Technology</i> , 2017 , 51, 13678-13688	10.3	18

82	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	4.9	18
81	Observation and mathematical description of the acceleration phenomenon in batch respirograms associated with ammonium oxidation. <i>Water Science and Technology</i> , 2006 , 54, 181-8	2.2	18
80	Critical Analysis of Biomass Retention Strategies in Mainstream and Sidestream ANAMMOX-Mediated Nitrogen Removal Systems. <i>Environmental Science & Technology</i> , 2021 , 55, 9-24	10.3	18
79	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, 6443-50	5.1	17
78	Nitrification Inhibition by Ethylenediamine-Based Chelating Agents. <i>Environmental Engineering Science</i> , 2003 , 20, 219-228	2	17
77	Resilience and limitations of MFC anodic community when exposed to antibacterial agents. <i>Bioelectrochemistry</i> , 2020 , 134, 107500	5.6	15
76	Importance of hydroxylamine in abiotic N ₂ O production during transient anoxia in planktonic axenic Nitrosomonas cultures. <i>Chemical Engineering Journal</i> , 2018 , 335, 756-762	14.7	15
75	Effectiveness of switching disinfectants for nitrification control. <i>Journal - American Water Works Association</i> , 2008 , 100, 104-115	0.5	15
74	Polyhydroxyalkanoates, triacylglycerides and glycogen in a high rate activated sludge A-stage system. <i>Chemical Engineering Journal</i> , 2017 , 316, 350-360	14.7	14
73	Interactions between substrate characteristics and microbial communities on biogas production yield and rate. <i>Bioresource Technology</i> , 2020 , 303, 122934	11	14
72	Endocytic pathways involved in filovirus entry: advances, implications and future directions. <i>Viruses</i> , 2012 , 4, 3647-64	6.2	14
71	Alcohol dehydrogenase expression as a biomarker of denitrification activity in activated sludge using methanol and glycerol as electron donors. <i>Environmental Microbiology</i> , 2011 , 13, 2930-8	5.2	13
70	Protocol for the measurement of nitrous oxide fluxes from biological wastewater treatment plants. <i>Methods in Enzymology</i> , 2011 , 486, 369-85	1.7	12
69	Biokinetic characterization of the acceleration phase in autotrophic ammonia oxidation. <i>Water Environment Research</i> , 2008 , 80, 732-9	2.8	12
68	Factors controlling nitrous oxide emissions from a full-scale activated sludge system in the tropics. <i>Environmental Science and Pollution Research</i> , 2015 , 22, 11840-9	5.1	10
67	Elemental profiling of single bacterial cells as a function of copper exposure and growth phase. <i>PLoS ONE</i> , 2011 , 6, e21255	3.7	10
66	Assessment of nitric oxide (NO) redox reactions contribution to nitrous oxide (N ₂ O) formation during nitrification using a multispecies metabolic network model. <i>Biotechnology and Bioengineering</i> , 2016 , 113, 1124-36	4.9	9
65	Identification of Bisphenol A-Assimilating Microorganisms in Mixed Microbial Communities Using C-DNA Stable Isotope Probing. <i>Environmental Science & Technology</i> , 2018 , 52, 9128-9135	10.3	9

64	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	12.5	9
63	Impact of Inoculum Type on the Microbial Community and Power Performance of Urine-Fed Microbial Fuel Cells. <i>Microorganisms</i> , 2020 , 8,	4.9	7
62	Characterization and mitigation of nitrous oxide (N ₂ O) emissions from partial and full-nitrification BNR processes based on post-anoxic aeration control. <i>Biotechnology and Bioengineering</i> , 2015 , 112, 2241-9	11.9	6
61	Chemical characterization of faecal sludge in the Kumasi metropolis, Ghana. <i>Gates Open Research</i> , 1 , 12	2.4	6
60	Combination of N Tracer and Microbial Analyses Discloses NO Sink Potential of the Anammox Community. <i>Environmental Science & Technology</i> , 2021 , 55, 9231-9242	10.3	6
59	Nitrogen Recovery via Aquaponics/Bioaponics: Engineering Considerations and Perspectives. <i>ACS ES&T Engineering</i> , 2021 , 1, 326-339		6
58	Nitric Oxide Production Interferes with Aqueous Dissolved Oxygen Sensors. <i>Environmental Engineering Science</i> , 2017 , 34, 687-691	2	5
57	Studying the effect of bioswales on nutrient pollution in urban combined sewer systems. <i>Science of the Total Environment</i> , 2019 , 665, 944-958	10.2	5
56	Model based predictive control for energy efficient biological nitrification process with minimal nitrous oxide production. <i>Chemical Engineering Journal</i> , 2015 , 268, 300-310	14.7	5
55	Electrochemical Reduction of Nitrite to Ammonia for Use in a Bioreactor. <i>Journal of the Electrochemical Society</i> , 2013 , 160, G19-G26	3.9	4
54	Metatranscriptomic Investigation of Adaptation in NO and NO ₂ Production From a Lab-Scale Nitrification Process Upon Repeated Exposure to Anoxic-Aerobic Cycling. <i>Frontiers in Microbiology</i> , 2018 , 9, 3012	5.7	4
53	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	2.2	4
52	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	5.7	4
51	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	10.2	3
50	Optimization of partial denitrification to maximize nitrite production using glycerol as an external carbon source – Impact of influent COD:N ratio. <i>Proceedings of the Water Environment Federation</i> , 2017 , 2017, 1356-1360		3
49	Technologies and Framework for Resource Recovery and Beneficiation from Human Waste 2014 , 415-430		3
48	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	4.2	3
47	Draft Genome Sequence of the Oleaginous Yeast <i>Cryptococcus albidus</i> var. <i>albidus</i> . <i>Genome Announcements</i> , 2016 , 4,		3

46	Innovative Global Solutions for Bioenergy Production. <i>Environmental Engineering Science</i> , 2016 , 33, 841-842	2
45	Time to act-assessing variations in qPCR analyses in biological nitrogen removal with examples from partial nitrification/anammox systems. <i>Water Research</i> , 2021 , 190, 116604	12.5 2
44	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	4.8 2
43	Single-step nitrification models erroneously describe batch ammonia oxidation profiles when nitrite oxidation becomes rate limiting 2000 , 68, 396	2
42	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	1
41	NOB Repression for Mainstream Nitrite-Shunt and Deammonification: A Pilot Study. <i>Proceedings of the Water Environment Federation</i> , 2013 , 2013, 1959-1981	1
40	Impact of Cr(VI) on nitrification Physiology, microbial ecology and gene expression. <i>Proceedings of the Water Environment Federation</i> , 2013 , 2013, 245-249	1
39	Nitrous Oxide Emissions from Activated Sludge at Full-scale Wastewater Treatment Facilities in the United States. <i>Proceedings of the Water Environment Federation</i> , 2010 , 2010, 686-696	1
38	Gene Expression Analysis of Aerobic Autotrophic Denitrification by <i>Nitrosomonas europaea</i> . <i>Proceedings of the Water Environment Federation</i> , 2008 , 2008, 3168-3179	1
37	Implementation and process analysis of pilot scale multi-phase anaerobic fermentation and digestion of faecal sludge in Ghana. <i>Gates Open Research</i> , 2017 , 1, 10	2.4 1
36	Meta-azotomics of engineered wastewater treatment processes reveals differential contributions of established and novel models of N-cycling	1
35	Stimulating Nitrogen Biokinetics with the Addition of Hydrogen Peroxide to Secondary Effluent Biofiltration. <i>Clean Technologies</i> , 2020 , 2, 53-73	3.4 1
34	Glycerol-driven Denitrification: Process Kinetics, Microbial Ecology, and Operational Controls	1
33	Size dependent impacts of a model microplastic on nitrification induced by interaction with nitrifying bacteria. <i>Journal of Hazardous Materials</i> , 2022 , 424, 127363	12.8 1
32	Temporal triggers of NO 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	10.2 1
31	Applicability of two-step models in estimating nitrification kinetics from batch respirograms under different relative dynamics of ammonia and nitrite oxidation 2000 , 70, 54	1
30	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
29	Achieving low TN effluent by operating AvN control coupled with partial denitrification-anammox control. <i>Proceedings of the Water Environment Federation</i> , 2018 , 2018, 153-156	0

28	Process Performance and Microbial Community Structures in Three Anammox-Mediated Systems with Different Mixing Conditions. <i>Journal of Environmental Chemical Engineering</i> , 2021 , 106466	6.8	o
27	Microbial response on the first full-scale DEMON [®] biomass transfer for mainstream deammonification.. <i>Water Research</i> , 2022 , 218, 118517	12.5	o
26	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		
25	Anaerobic Acidogenesis of Food Waste and Application as a Supplemental Carbon Source for Denitrification. <i>Proceedings of the Water Environment Federation</i> , 2011 , 2011, 1615-1623		
24	Determination of Denitrification Kinetics on Methanol and Glycerol Using Gene Expression Biomarkers. <i>Proceedings of the Water Environment Federation</i> , 2011 , 2011, 1624-1632		
23	Respirometric Microbioreactors for Biokinetic Estimation of Nitrification Activity. <i>Proceedings of the Water Environment Federation</i> , 2011 , 2011, 3173-3178		
22	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		
21	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). <i>Proceedings of the Water Environment Federation</i> , 2010 , 2010, 3102-3107		
20	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. <i>Proceedings of the Water Environment Federation</i> , 2010 , 2010, 4179-4199		
19	POPULATION DYNAMICS, BIOKINETICS 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		
18	MICROBIAL ECOLOGY, BIOKINETICS AND THERMODYNAMICS OF METHYLOTROPHIC DENITRIFICATION. <i>Proceedings of the Water Environment Federation</i> , 2007 , 2007, 5056-5063		
17	PARTIAL NITRIFICATION UNDER OXYGEN LIMITED CONDITIONS RESULTS IN SIGNIFICANT GREENHOUSE GAS PRODUCTION. <i>Proceedings of the Water Environment Federation</i> , 2007 , 2007, 861-871		
16	Optimal Experimental Design for Estimating Ammonia and Nitrite Oxidation Biokinetics from Batch Respirograms. <i>Proceedings of the Water Environment Federation</i> , 2001 , 2001, 545-560		
15	EVALUATION OF NITRIFICATION INHIBITION BY HEAVY METALS NICKEL AND ZINC. <i>Proceedings of the Water Environment Federation</i> , 2001 , 2001, 581-595		
14	Enrichment of a denitrating microbial community through kinetic limitation.. <i>Environment International</i> , 2022 , 161, 107113	12.9	
13	Assessing Biodegradation and Exposure Effects of Bisphenol-A with Microbial Communities Involved in Biological Nutrient Removal. <i>Proceedings of the Water Environment Federation</i> , 2018 , 2018, 51-55		
12	Enrichment of a Glycerol-Driven Denitrating Process: System Performance and Microbial Ecology. <i>Proceedings of the Water Environment Federation</i> , 2018 , 2018, 4673-4677		
11	Recovery and Utilization of Volatile Fatty Acids from Faecal Sludge for in-situ Pathogen Reduction and Biodiesel Production through Microbial Lipid Synthesis. <i>Proceedings of the Water Environment Federation</i> , 2015 , 2015, 5928-5929		

- 10 Operation and Process Analysis of Faecal Sludge Anaerobic Fermentation and Digestion in Ghana. *Proceedings of the Water Environment Federation*, **2015**, 2015, 936-939
- 9 Concurrent Nitrification and Methanol Production Using Nitrifying Activated Sludge in a Continuous Flow Process. *Proceedings of the Water Environment Federation*, **2015**, 2015, 5666-5667
- 8 Who Eats Microconstituents? Application of DNA Stable Isotope Probing to Identify Bacteria Assimilating Bisphenol A. *Proceedings of the Water Environment Federation*, **2015**, 2015, 4960-4968
- 7 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
- 6 Recovery of bioplastics from municipal solids and food waste through an anaerobic fermentation platform. *Proceedings of the Water Environment Federation*, **2017**, 2017, 4310-4314
- 5 Functional Gene Expression as an Indicator of Nitrification Inhibition by Cu(II). *Proceedings of the Water Environment Federation*, **2017**, 2017, 4048-4053
- 4 Physiological and molecular characterization of continuous cometabolic methanol production by a nitrifying enrichment consortium. *Proceedings of the Water Environment Federation*, **2017**, 2017, 4035-4038
- 3 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
- 2 Metagenomics of Anaerobic Food Waste Fermentation. *Proceedings of the Water Environment Federation*, **2017**, 2017, 4041-4047
- 1 Accelerating Microbial Activity of Soil Aquifer Treatment by Hydrogen Peroxide. *Energies*, **2022**, 15, 3852,1