

Haydee De Clippeleir

List of Publications by Year in descending order

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Version: 2024-02-01

90
papers

2,399
citations

279798

23
h-index

214800

47
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91
all docs

91
docs citations

91
times ranked

1670
citing authors

#	ARTICLE	IF	CITATIONS
1	Partial denitrificationâ€“anammox (PdNA) application in mainstream IFAS configuration using raw fermentate as carbon source. <i>Water Environment Research</i> , 2022, 94, e10711.	2.7	18
2	Mainstream short-cut N removal modelling: current status and perspectives. <i>Water Science and Technology</i> , 2022, 85, 2539-2564.	2.5	5
3	Startup strategies for mainstream anammox polishing in moving bed biofilm reactors. <i>Water Environment Research</i> , 2022, 94, .	2.7	9
4	Mainstream partial denitrificationâ€“anammox in sand and expanded clay deepâ€“bed polishing filters under practical loading rates and backwashing conditions. <i>Water Environment Research</i> , 2022, 94, .	2.7	5
5	Fullâ€“scale transition from denitrification to partial denitrificationâ€“anammox (PdNA) in deepâ€“bed filters: Operational strategies for and benefits of PdNA implementation. <i>Water Environment Research</i> , 2022, 94, .	2.7	11
6	Nitrogen removal capacity and carbon demand requirements of partial denitrification/anammox MBBR and IFAS processes. <i>Water Environment Research</i> , 2022, 94, .	2.7	7
7	Investigating the dynamics of volatile sulfur compound emission from primary systems at a water resource recovery facility. <i>Water Environment Research</i> , 2021, 93, 316-327.	2.7	4
8	Primary sludge fermentate as carbon source for mainstream partial denitrificationâ€“anammox (PdNA). <i>Water Environment Research</i> , 2021, 93, 1044-1059.	2.7	18
9	Robust Nitritation Sustained by Acid-Tolerant Ammonia-Oxidizing Bacteria. <i>Environmental Science & Technology</i> , 2021, 55, 2048-2056.	10.0	51
10	Towards more predictive clarification models via experimental determination of flocculent settling coefficient value. <i>Water Research</i> , 2021, 190, 116294.	11.3	8
11	The inhibitory impact of ammonia on thermally hydrolyzed sludge fed anaerobic digestion. <i>Water Environment Research</i> , 2021, 93, 1263-1275.	2.7	5
12	Stoichiometric and kinetic characterization of an acid-tolerant ammonia oxidizer â€“Candidatus Nitrosoglobusâ€™. <i>Water Research</i> , 2021, 196, 117026.	11.3	22
13	Unravelling adaptation of nitrite-oxidizing bacteria in mainstream PN/A process: Mechanisms and counter-strategies. <i>Water Research</i> , 2021, 200, 117239.	11.3	81
14	Recuperative thickening for sludge retention time and throughput management in anaerobic digestion with thermal hydrolysis pretreatment. <i>Water Environment Research</i> , 2020, 92, 465-477.	2.7	10
15	Exploring the impact of bulk and substrate physics on hydrolysis rates and biogas yields of anaerobic digesters pretreated with thermal hydrolysis. <i>Water Environment Research</i> , 2020, 92, 378-388.	2.7	0
16	Long solids retention times and attached growth phase favor prevalence of comammox bacteria in nitrogen removal systems. <i>Water Research</i> , 2020, 169, 115268.	11.3	98
17	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.	2.4	5
18	Increasing oxygen transfer efficiency through sorption enhancing strategies. <i>Water Research</i> , 2020, 183, 116086.	11.3	7

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19	Moving forward with A-stage and high-rate contact-stabilization for energy efficient water resource recovery facility: Mechanisms, factors, practical approach, and guidelines. <i>Journal of Water Process Engineering</i> , 2020, 36, 101329.	5.6	23
20	Screen <i>versus</i> cyclone for improved capacity and robustness for sidestream and mainstream deammonification. <i>Environmental Science: Water Research and Technology</i> , 2019, 5, 1769-1781.	2.4	13
21	Nitrate residual as a key parameter to efficiently control partial denitrification coupling with anammox. <i>Water Environment Research</i> , 2019, 91, 1455-1465.	2.7	46
22	Impacts of feed dilution and lower solids retention time on performance of thermal hydrolysis/anaerobic digestion. <i>Water Environment Research</i> , 2019, 91, 386-398.	2.7	5
23	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.	2.7	78
24	Colloids, flocculation and carbon capture – a comprehensive plant-wide model. <i>Water Science and Technology</i> , 2019, 79, 15-25.	2.5	10
25	A-stage and high-rate contact-stabilization performance comparison for carbon and nutrient redirection from high-strength municipal wastewater. <i>Chemical Engineering Journal</i> , 2019, 357, 737-749.	12.7	48
26	Overcoming floc formation limitations in high-rate activated sludge systems. <i>Chemosphere</i> , 2019, 215, 342-352.	8.2	30
27	Short operational differences support granulation in a lab scale reactor in comparison to another conventional activated sludge reactor. <i>Bioresource Technology</i> , 2019, 271, 417-426.	9.6	18
28	Pinpointing wastewater and process parameters controlling the AOB to NOB activity ratio in sewage treatment plants. <i>Water Research</i> , 2018, 138, 37-46.	11.3	34
29	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.	11.3	67
30	Enhancing the decoupling of solids retention times in full-scale deammonification processes using screens. <i>Proceedings of the Water Environment Federation</i> , 2018, 2018, 185-191.	0.0	0
31	Nitrate-based COD Dosing Control for Partial Denitrification Selection Coupled to Anammox. <i>Proceedings of the Water Environment Federation</i> , 2018, 2018, 4678-4682.	0.0	1
32	How does THP fed anaerobic digester react to increased ammonia concentration?. <i>Proceedings of the Water Environment Federation</i> , 2018, 2018, 393-397.	0.0	0
33	Impact of Substrate Structure Changes Caused by Thermal Treatment on Hydrolysis Rate Within Anaerobic Digestion. <i>Proceedings of the Water Environment Federation</i> , 2018, 2018, 387-392.	0.0	0
34	Understanding mechanisms and sources of odors in resource recovery facilities: Impact of collection system, primary and secondary treatment. <i>Proceedings of the Water Environment Federation</i> , 2018, 2018, 546-553.	0.0	0
35	Towards more predictive clarification models via experimental determination of flocculent settling coefficient values. <i>Proceedings of the Water Environment Federation</i> , 2018, 2018, 4723-4728.	0.0	0
36	Standardization of the Limit of Stokesian Settling Measurement Using Simple Image Data Analysis (Manuscript). <i>Proceedings of the Water Environment Federation</i> , 2018, 2018, 5148-5176.	0.0	0

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37	Dual substrate limitation modeling and implications for mainstream deammonification. <i>Water Research</i> , 2017, 116, 95-105.	11.3	11
38	Reverse flexing as a physical/mechanical treatment to mitigate fouling of fine bubble diffusers. <i>Water Science and Technology</i> , 2017, 76, 1595-1602.	2.5	7
39	Assessment of the endogenous respiration rate and the observed biomass yield for methanol-fed denitrifying bacteria under anoxic and aerobic conditions. <i>Water Science and Technology</i> , 2017, 75, 48-56.	2.5	5
40	Methods for quantification of biosorption in high-rate activated sludge systems. <i>Biochemical Engineering Journal</i> , 2017, 128, 33-44.	3.6	22
41	Reply for comment on "Bioflocculation management through high-rate contact-stabilization: A promising technology to recover organic carbon from low-strength wastewater by Rahman, A., Meerburg, F. A., Ravadagundhi, S., Wett, B., Jimenez, J., Bott, C., Al-Omari, A., Riffat, R., Murthy, S. and De Clippeleir, H. [<i>Water Research</i> 104 (2016) 485-496]". <i>Water Research</i> , 2017, 126, 527-529.	11.3	1
42	Impact of aerobic famine and feast condition on extracellular polymeric substance production in high-rate contact stabilization systems. <i>Chemical Engineering Journal</i> , 2017, 328, 74-86.	12.7	31
43	Settling regimen transitions quantify solid separation limitations through correlation with floc size and shape. <i>Water Research</i> , 2017, 109, 54-68.	11.3	18
44	Novel Stokesian Metrics that Quantify Collision Efficiency, Floc Strength, and Discrete Settling Behavior. <i>Water Environment Research</i> , 2017, 89, 586-597.	2.7	11
45	Does operation at increased ammonia concentration impact hydrolysis rates. <i>Proceedings of the Water Environment Federation</i> , 2017, 2017, 60-63.	0.0	2
46	Potential of high-rate contact-stabilization for maximizing carbon redirection and capture compared to plug flow A-stage systems. <i>Proceedings of the Water Environment Federation</i> , 2017, 2017, 4269-4275.	0.0	0
47	The Role of Physics in the Hydrolysis Step of Mesophilic Anaerobic Digestion with Thermal Hydrolysis Pretreatment. <i>Proceedings of the Water Environment Federation</i> , 2017, 2017, 5626-5632.	0.0	0
48	Using dynamic alpha factors for oxygen transfer optimization in WRRFs. <i>Proceedings of the Water Environment Federation</i> , 2017, 2017, 298-303.	0.0	0
49	Selection of COD Source for Integration of Partial Denitrification Driven Final Polishing Step within Mainstream Short-cut Nitrogen Removal Systems. <i>Proceedings of the Water Environment Federation</i> , 2017, 2017, 592-596.	0.0	0
50	Fundamental Study on Dewatering Characteristics of Wastewater Sludge from Different Treatment Processes. <i>Proceedings of the Water Environment Federation</i> , 2017, 2017, 4466-4470.	0.0	0
51	Can We Overcome Hydrolysis Limitation by Better Understanding the Impacts of Physics Within Anaerobic Digestion?. <i>Proceedings of the Water Environment Federation</i> , 2017, 2017, 437-443.	0.0	0
52	Impact of carbon to nitrogen ratio and aeration regime on mainstream deammonification. <i>Water Science and Technology</i> , 2016, 74, 375-384.	2.5	61
53	Bioflocculation management through high-rate contact-stabilization: A promising technology to recover organic carbon from low-strength wastewater. <i>Water Research</i> , 2016, 104, 485-496.	11.3	88
54	Deammonification for digester supernatant pretreated with thermal hydrolysis: overcoming inhibition through process optimization. <i>Applied Microbiology and Biotechnology</i> , 2016, 100, 5595-5606.	3.6	37

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55	Limit of stokesian settling concentration characterizes sludge settling velocity. Water Research, 2016, 90, 100-110.	11.3	18
56	Impact of RAS Aeration on Bioflocculation and Carbon Redirection in High-Rate Activated Sludge Processes. Proceedings of the Water Environment Federation, 2016, 2016, 4261-4270.	0.0	1
57	“Accidental Granular Sludge” Understanding process design and operational conditions that lead to low SVI-30 values through a survey of full scale facilities in North America. Proceedings of the Water Environment Federation, 2016, 2016, 3385-3394.	0.0	7
58	Practical Application of Novel Settling Characteristics Metrics to Localize Solids Separation Limitations.. Proceedings of the Water Environment Federation, 2016, 2016, 3318-3325.	0.0	1
59	Controlling ORP as the Key to Reduce Odor Emission in Secondary Systems. Proceedings of the Water Environment Federation, 2016, 2016, 4520-4529.	0.0	0
60	IMPORTANCE OF ANAEROBIC RESPEROMETRY FOR MODEL CALIBRATION AND PROCESS MONITORING. Proceedings of the Water Environment Federation, 2016, 2016, 2186-2193.	0.0	0
61	Strategy for Full-scale Transition into Shortcut Nitrogen Removal at Blue Plains Advanced Wastewater Treatment Plant.. Proceedings of the Water Environment Federation, 2016, 2016, 165-173.	0.0	0
62	Environmental sustainability of an energy self-sufficient sewage treatment plant: Improvements through DEMON and co-digestion. Water Research, 2015, 74, 166-179.	11.3	128
63	Model-based evaluation of mechanisms and benefits of mainstream shortcut nitrogen removal processes. Water Science and Technology, 2015, 71, 840-847.	2.5	33
64	High-rate activated sludge system for carbon management “ Evaluation of crucial process mechanisms and design parameters. Water Research, 2015, 87, 476-482.	11.3	192
65	Nitric oxide preferentially inhibits nitrite oxidizing communities with high affinity for nitrite. Journal of Biotechnology, 2015, 193, 120-122.	3.8	24
66	Quantifying Flocculation Capacity of Activated Sludge.. Proceedings of the Water Environment Federation, 2015, 2015, 3466-3475.	0.0	1
67	Mechanical Cleaning/Treatment Method for Mitigating Membrane Diffuser Fouling and Improving Aeration Efficiency. Proceedings of the Water Environment Federation, 2015, 2015, 4078-4086.	0.0	0
68	Effect of biological process rate on fouling of fine-pore diffusers. Proceedings of the Water Environment Federation, 2015, 2015, 1860-1867.	0.0	0
69	A Novel Method for Quantifying the Solubilization Potential of Thermal Hydrolysis Processes. Proceedings of the Water Environment Federation, 2015, 2015, 6559-6568.	0.0	0
70	Efficient THP-AD Filtrate Treatment via Optimized Control Strategies in Sidestream Deammonification Reactor. Proceedings of the Water Environment Federation, 2015, 2015, 6538-6549.	0.0	1
71	Control of nitrataion in an oxygen-limited autotrophic nitrification/denitrification rotating biological contactor through disc immersion level variation. Bioresource Technology, 2014, 155, 182-188.	9.6	35
72	Metrics for Settling of Flocculent and Granular Solids.. Proceedings of the Water Environment Federation, 2014, 2014, 839-846.	0.0	2

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73	The Effect Of Sludge Age On Biokinetic Coefficients. Proceedings of the Water Environment Federation, 2014, 2014, 3794-3798.	0.0	1
74	Balancing Denitrification and Anammox Activities in Mainstream Deammonification: Influence of COD Input and Aeration Regime. Proceedings of the Water Environment Federation, 2014, 2014, 7433-7437.	0.0	0
75	From nitrite shunt to mainstream deammonification strategy: pilot-scale demonstration. Proceedings of the Water Environment Federation, 2014, 2014, 4244-4248.	0.0	2
76	One-stage partial nitritation/anammox at 15°C on pretreated sewage: feasibility demonstration at lab-scale. Applied Microbiology and Biotechnology, 2013, 97, 10199-10210.	3.6	168
77	Autotrophic nitrogen removal after ureolytic phosphate precipitation to remove both endogenous and exogenous nitrogen. Water Science and Technology, 2013, 67, 1425-1433.	2.5	4
78	Roadmap Toward Energy Neutrality & Chemical Optimization at Enhanced Nutrient Removal Facilities. Proceedings of the Water Environment Federation, 2013, 2013, 702-731.	0.0	11
79	NOB out-selection in rotating biological contactors for sidestream and mainstream deammonification. Proceedings of the Water Environment Federation, 2013, 2013, 1948-1958.	0.0	1
80	Roadmap To Energy & Chemical Optimization Through The Use of Mainstream Deammonification at Enhanced Nutrient Removal Facilities. Proceedings of the Water Environment Federation, 2013, 2013, 2226-2249.	0.0	1
81	Efficient Total Nitrogen Removal in an Ammonia Gas Biofilter through High-Rate OLAND. Environmental Science & Technology, 2012, 46, 8826-8833.	10.0	20
82	Successful hydraulic strategies to start up OLAND sequencing batch reactors at lab scale. Microbial Biotechnology, 2012, 5, 403-414.	4.2	18
83	A high-rate ammonia gas biofilter based on partial nitritation/anammox removes total nitrogen at high efficiency. Communications in Agricultural and Applied Biological Sciences, 2012, 77, 157-61.	0.0	0
84	Improved start-up of OLAND sequencing batch reactors by means of hydraulic strategies. Communications in Agricultural and Applied Biological Sciences, 2012, 77, 231-5.	0.0	0
85	Floc-based sequential partial nitritation and anammox at full scale with contrasting N ₂ O emissions. Water Research, 2011, 45, 2811-2821.	11.3	166
86	Long-chain acylhomoserine lactones increase the anoxic ammonium oxidation rate in an OLAND biofilm. Applied Microbiology and Biotechnology, 2011, 90, 1511-1519.	3.6	80
87	OLAND is feasible to treat sewage-like nitrogen concentrations at low hydraulic residence times. Applied Microbiology and Biotechnology, 2011, 90, 1537-1545.	3.6	98
88	Aggregate Size and Architecture Determine Microbial Activity Balance for One-Stage Partial Nitritation and Anammox. Applied and Environmental Microbiology, 2010, 76, 900-909.	3.1	318
89	A low volumetric exchange ratio allows high autotrophic nitrogen removal in a sequencing batch reactor. Bioresource Technology, 2009, 100, 5010-5015.	9.6	31
90	Media selection for anammox-based polishing filters: balancing anammox enrichment and retention with filtration function. Water Environment Research, 0, , .	2.7	5