Haydee De Clippeleir

List of Publications by Year
in descending order

90 papers	2,399 citations	279487 23 h-index	214527 47 g-index
91 all docs	91 docs citations	91 times ranked	1670 citing authors

#	Article	IF	Citations
1	Aggregate Size and Architecture Determine Microbial Activity Balance for One-Stage Partial Nitritation and Anammox. Applied and Environmental Microbiology, 2010, 76, 900-909.	1.4	318
2	High-rate activated sludge system for carbon management â€“ Evaluation of crucial process mechanisms and design parameters. Water Research, 2015, 87, 476-482.	5.3	192
3	One-stage partial nitritation/anammox at 15ÂÂ°C on pretreated sewage: feasibility demonstration at lab-scale. Applied Microbiology and Biotechnology, 2013, 97, 10199-10210.	1.7	168
4	Floc-based sequential partial nitritation and anammox at full scale with contrasting N2O emissions. Water Research, 2011, 45, 2811-2821.	5.3	166
5	Environmental sustainability of an energy self-sufficient sewage treatment plant: Improvements through DEMON and co-digestion. Water Research, 2015, 74, 166-179.	5.3	128
6	OLAND is feasible to treat sewage-like nitrogen concentrations at low hydraulic residence times. Applied Microbiology and Biotechnology, 2011, 90, 1537-1545.	1.7	98
7	Long solids retention times and attached growth phase favor prevalence of comammox bacteria in nitrogen removal systems. Water Research, 2020, 169, 115268.	5.3	98
8	Bioflocculation management through high-rate contact-stabilization: A promising technology to recover organic carbon from low-strength wastewater. Water Research, 2016, 104, 485-496.	5.3	88
9	Unravelling adaptation of nitrite-oxidizing bacteria in mainstream PN/A process: Mechanisms and counter-strategies. Water Research, 2021, 200, 117239.	5.3	81
10	Long-chain acylhomoserine lactones increase the anoxic ammonium oxidation rate in an OLAND biofilm. Applied Microbiology and Biotechnology, 2011, 90, 1511-1519.	1.7	80
11	Impact of carbon source and <scp>COD</scp>/N on the concurrent operation of partial denitrification and anammox. Water Environment Research, 2019, 91, 185-197.	1.3	78
12	Supernatant organics from anaerobic digestion after thermal hydrolysis cause direct and/or diffusional activity loss for nitritation and anammox. Water Research, 2018, 143, 270-281.	5.3	67
13	Impact of carbon to nitrogen ratio and aeration regime on mainstream deammonification. Water Science and Technology, 2016, 74, 375-384.	1.2	61
14	Robust Nitritation Sustained by Acid-Tolerant Ammonia-Oxidizing Bacteria. Environmental Science & Technology, 2021, 55, 2048-2056.	4.6	51
15	A-stage and high-rate contact-stabilization performance comparison for carbon and nutrient redirection from high-strength municipal wastewater. Chemical Engineering Journal, 2019, 357, 737-749.	6.6	48
16	Nitrate residual as a key parameter to efficiently control partial denitrification coupling with anammox. Water Environment Research, 2019, 91, 1455-1465.	1.3	46
17	Deammonification for digester supernatant pretreated with thermal hydrolysis: overcoming inhibition through process optimization. Applied Microbiology and Biotechnology, 2016, 100, 5595-5606.	1.7	37
18	Control of nitratation in an oxygen-limited autotrophic nitrification/denitrification rotating biological contactor through disc immersion level variation. Bioresource Technology, 2014, 155, 182-188.	4.8	35

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19	Pinpointing wastewater and process parameters controlling the AOB to NOB activity ratio in sewage treatment plants. Water Research, 2018, 138, 37-46.	5.3	34
20	Model-based evaluation of mechanisms and benefits of mainstream shortcut nitrogen removal processes. Water Science and Technology, 2015, 71, 840-847.	1.2	33
21	A low volumetric exchange ratio allows high autotrophic nitrogen removal in a sequencing batch reactor. Bioresource Technology, 2009, 100, 5010-5015.	4.8	31
22	Impact of aerobic famine and feast condition on extracellular polymeric substance production in high-rate contact stabilization systems. Chemical Engineering Journal, 2017, 328, 74-86.	6.6	31
23	Overcoming floc formation limitations in high-rate activated sludge systems. Chemosphere, 2019, 215, 342-352.	4.2	30
24	Nitric oxide preferentially inhibits nitrite oxidizing communities with high affinity for nitrite. Journal of Biotechnology, 2015, 193, 120-122.	1.9	24
25	Moving forward with A-stage and high-rate contact-stabilization for energy efficient water resource recovery facility: Mechanisms, factors, practical approach, and guidelines. Journal of Water Process Engineering, 2020, 36, 101329.	2.6	23
26	Methods for quantification of biosorption in high-rate activated sludge systems. Biochemical Engineering Journal, 2017, 128, 33-44.	1.8	22
27	Stoichiometric and kinetic characterization of an acid-tolerant ammonia oxidizer â€˜Candidatus Nitrosoglobusâ€™. Water Research, 2021, 196, 117026.	5.3	22
28	Efficient Total Nitrogen Removal in an Ammonia Gas Biofilter through High-Rate OLAND. Environmental Science & Technology, 2012, 46, 8826-8833.	4.6	20
29	Successful hydraulic strategies to start up OLAND sequencing batch reactors at lab scale. Microbial Biotechnology, 2012, 5, 403-414.	2.0	18
30	Limit of stokesian settling concentration characterizes sludge settling velocity. Water Research, 2016, 90, 100-110.	5.3	18
31	Settling regimen transitions quantify solid separation limitations through correlation with floc size and shape. Water Research, 2017, 109, 54-68.	5.3	18
32	Primary sludge fermentate as carbon source for mainstream partial denitrificationâ€“anammox (PdNA). Water Environment Research, 2021, 93, 1044-1059.	1.3	18
33	Short operational differences support granulation in a lab scale reactor in comparison to another conventional activated sludge reactor. Bioresource Technology, 2019, 271, 417-426.	4.8	18
34	Partial denitrificationâ€“anammox (PdNA) application in mainstream IFAS configuration using raw fermentate as carbon source. Water Environment Research, 2022, 94, e10711.	1.3	18
35	Screen versus cyclone for improved capacity and robustness for sidestream and mainstream deammonification. Environmental Science: Water Research and Technology, 2019, 5, 1769-1781.	1.2	13
36	Roadmap Toward Energy Neutrality & Chemical Optimization at Enhanced Nutrient Removal Facilities. Proceedings of the Water Environment Federation, 2013, 2013, 702-731.	0.0	11

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37	Dual substrate limitation modeling and implications for mainstream deammonification. Water Research, 2017, 116, 95-105.	5.3	11
38	Novel Stokesian Metrics that Quantify Collision Efficiency, Floc Strength, and Discrete Settling Behavior. Water Environment Research, 2017, 89, 586-597.	1.3	11
39	Fullâ€scale transition from denitrification to partial denitrificationâ€“anammox (PdNA) in deepâ€bed filters: Operational strategies for and benefits of PdNA implementation. Water Environment Research, 2022, 94, .	1.3	11
40	Colloids, flocculation and carbon capture â€“ a comprehensive plant-wide model. Water Science and Technology, 2019, 79, 15-25.	1.2	10
41	Recuperative thickening for sludge retention time and throughput management in anaerobic digestion with thermal hydrolysis pretreatment. Water Environment Research, 2020, 92, 465-477.	1.3	10
42	Startup strategies for mainstream anammox polishing in moving bed biofilm reactors. Water Environment Research, 2022, 94, .	1.3	9
43	Towards more predictive clarification models via experimental determination of flocculent settling coefficient value. Water Research, 2021, 190, 116294.	5.3	8
44	Reverse flexing as a physical/mechanical treatment to mitigate fouling of fine bubble diffusers. Water Science and Technology, 2017, 76, 1595-1602.	1.2	7
45	Increasing oxygen transfer efficiency through sorption enhancing strategies. Water Research, 2020, 183, 116086.	5.3	7
46	â€œAccidental Granular Sludge?â€: 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
47	Nitrogen removal capacity and carbon demand requirements of partial denitrification/anammox MBBR and IFAS processes. Water Environment Research, 2022, 94, .	1.3	7
48	Assessment of the endogenous respiration rate and the observed biomass yield for methanol-fed denitrifying bacteria under anoxic and aerobic conditions. Water Science and Technology, 2017, 75, 48-56.	1.2	5
49	Impacts of feed dilution and lower solids retention time on performance of thermal hydrolysis/anaerobic digestion. Water Environment Research, 2019, 91, 386-398.	1.3	5
50	Effect of influent carbon fractionation and reactor configuration on mainstream nitrogen removal and NOB out-selection. Environmental Science: Water Research and Technology, 2020, 6, 691-701.	1.2	5
51	The inhibitory impact of ammonia on thermally hydrolyzed sludge fed anaerobic digestion. Water Environment Research, 2021, 93, 1263-1275.	1.3	5
52	Mainstream short-cut N removal modelling: current status and perspectives. Water Science and Technology, 2022, 85, 2539-2564.	1.2	5
53	Media selection for anammoxâ€based polishing filters: balancing anammox enrichment and retention with filtration function. Water Environment Research, 0, , .	1.3	5
54	Mainstream partial denitrificationâ€anammox in sand and expanded clay deepâ€bed polishing filters under practical loading rates and backwashing conditions. Water Environment Research, 2022, 94, .	1.3	5

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55	Autotrophic nitrogen removal after ureolytic phosphate precipitation to remove both endogenous and exogenous nitrogen. Water Science and Technology, 2013, 67, 1425-1433.	1.2	4
56	Investigating the dynamics of volatile sulfur compound emission from primary systems at a water resource recovery facility. Water Environment Research, 2021, 93, 316-327.	1.3	4
57	Metrics for Settling of Flocculent and Granular Solids.. Proceedings of the Water Environment Federation, 2014, 2014, 839-846.	0.0	2
58	From nitrite shunt to mainstream deammonification strategy: pilot-scale demonstration. Proceedings of the Water Environment Federation, 2014, 2014, 4244-4248.	0.0	2
59	Does operation at increased ammonia concentration impact hydrolysis rates. Proceedings of the Water Environment Federation, 2017, 2017, 60-63.	0.0	2
60	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
61	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
62	The Effect Of Sludge Age On Biokinetic Coefficients. Proceedings of the Water Environment Federation, 2014, 2014, 3794-3798.	0.0	1
63	Reply for comment on â€œBioflocculation 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. [Water Research 104 (2016) 485â€“496]â€. Water Research, 2017, 126, 527-529.	5.3	1
64	Quantifying Flocculation Capacity of Activated Sludge.. Proceedings of the Water Environment Federation, 2015, 2015, 3466-3475.	0.0	1
65	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
66	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
67	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
68	Nitrate-based COD Dosing Control for Partial Denitrification Selection Coupled to Anammox. Proceedings of the Water Environment Federation, 2018, 2018, 4678-4682.	0.0	1
69	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
70	Exploring the impact of bulk and substrate physics on hydrolysis rates and biogas yields of anaerobic digesters pretreated with thermal hydrolysis. Water Environment Research, 2020, 92, 378-388.	1.3	0
71	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
72	Effect of biological process rate on fouling of fine-pore diffusers. Proceedings of the Water Environment Federation, 2015, 2015, 1860-1867.	0.0	0

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73	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
74	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
75	IMPORTANCE OF ANAEROBIC RESPEROMETRY FOR MODEL CALIBRATION AND PROCESS MONITORING. Proceedings of the Water Environment Federation, 2016, 2016, 2186-2193.	0.0	0
76	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
77	Potential of high-rate contact-stabilization for maximizing carbon redirection and capture compared to plug flow A-stage systems. Proceedings of the Water Environment Federation, 2017, 2017, 4269-4275.	0.0	0
78	The Role of Physics in the Hydrolysis Step of Mesophilic Anaerobic Digestion with Thermal Hydrolysis Pretreatment. Proceedings of the Water Environment Federation, 2017, 2017, 5626-5632.	0.0	0
79	Using dynamic alpha factors for oxygen transfer optimization in WRRFs. Proceedings of the Water Environment Federation, 2017, 2017, 298-303.	0.0	0
80	Selection of COD Source for Integration of Partial Denitrification Driven Final Polishing Step within Mainstream Short-cut Nitrogen Removal Systems. Proceedings of the Water Environment Federation, 2017, 2017, 592-596.	0.0	0
81	Fundamental Study on Dewatering Characteristics of Wastewater Sludge from Different Treatment Processes. Proceedings of the Water Environment Federation, 2017, 2017, 4466-4470.	0.0	0
82	Can We Overcome Hydrolysis Limitation by Better Understanding the Impacts of Physics Within Anaerobic Digestion?. Proceedings of the Water Environment Federation, 2017, 2017, 437-443.	0.0	0
83	Enhancing the decoupling of solids retention times in full-scale deammonification processes using screens. Proceedings of the Water Environment Federation, 2018, 2018, 185-191.	0.0	0
84	How does THP fed anaerobic digester react to increased ammonia concentration?. Proceedings of the Water Environment Federation, 2018, 2018, 393-397.	0.0	0
85	Impact of Substrate Structure Changes Caused by Thermal Treatment on Hydrolysis Rate Within Anaerobic Digestion. Proceedings of the Water Environment Federation, 2018, 2018, 387-392.	0.0	0
86	Understanding mechanisms and sources of odors in resource recovery facilities: Impact of collection system, primary and secondary treatment. Proceedings of the Water Environment Federation, 2018, 2018, 546-553.	0.0	0
87	Towards more predictive clarification models via experimental determination of flocculent settling coefficient values. Proceedings of the Water Environment Federation, 2018, 2018, 4723-4728.	0.0	0
88	Standardization of the Limit of Stokesian Settling Measurement Using Simple Image Data Analysis (Manuscript). Proceedings of the Water Environment Federation, 2018, 2018, 5148-5176.	0.0	0
89	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
90	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