

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
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214800

47
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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 Nitrification and Anammox. <i>Applied and Environmental Microbiology</i> , 2010, 76, 900-909. | 3.1 | 318 |
| 2 | High-rate activated sludge system for carbon management – Evaluation of crucial process mechanisms and design parameters. <i>Water Research</i> , 2015, 87, 476-482. | 11.3 | 192 |
| 3 | One-stage partial nitrification/anammox at 15°C on pretreated sewage: feasibility demonstration at lab-scale. <i>Applied Microbiology and Biotechnology</i> , 2013, 97, 10199-10210. | 3.6 | 168 |
| 4 | Floc-based sequential partial nitrification and anammox at full scale with contrasting N ₂ O emissions. <i>Water Research</i> , 2011, 45, 2811-2821. | 11.3 | 166 |
| 5 | Environmental sustainability of an energy self-sufficient sewage treatment plant: Improvements through DEMON and co-digestion. <i>Water Research</i> , 2015, 74, 166-179. | 11.3 | 128 |
| 6 | OLAND is feasible to treat sewage-like nitrogen concentrations at low hydraulic residence times. <i>Applied Microbiology and Biotechnology</i> , 2011, 90, 1537-1545. | 3.6 | 98 |
| 7 | 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 |
| 8 | 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 |
| 9 | 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 |
| 10 | Long-chain acylhomoserine lactones increase the anoxic ammonium oxidation rate in an OLAND biofilm. <i>Applied Microbiology and Biotechnology</i> , 2011, 90, 1511-1519. | 3.6 | 80 |
| 11 | 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 |
| 12 | 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 |
| 13 | 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 |
| 14 | Robust Nitrification Sustained by Acid-Tolerant Ammonia-Oxidizing Bacteria. <i>Environmental Science & Technology</i> , 2021, 55, 2048-2056. | 10.0 | 51 |
| 15 | 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 |
| 16 | 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 |
| 17 | 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 |
| 18 | Control of nitrification in an oxygen-limited autotrophic nitrification/denitrification rotating biological contactor through disc immersion level variation. <i>Bioresource Technology</i> , 2014, 155, 182-188. | 9.6 | 35 |

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|----|---|------|-----------|
| 19 | 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 |
| 20 | Model-based evaluation of mechanisms and benefits of mainstream shortcut nitrogen removal processes. <i>Water Science and Technology</i> , 2015, 71, 840-847. | 2.5 | 33 |
| 21 | A low volumetric exchange ratio allows high autotrophic nitrogen removal in a sequencing batch reactor. <i>Bioresource Technology</i> , 2009, 100, 5010-5015. | 9.6 | 31 |
| 22 | 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 |
| 23 | Overcoming floc formation limitations in high-rate activated sludge systems. <i>Chemosphere</i> , 2019, 215, 342-352. | 8.2 | 30 |
| 24 | Nitric oxide preferentially inhibits nitrite oxidizing communities with high affinity for nitrite. <i>Journal of Biotechnology</i> , 2015, 193, 120-122. | 3.8 | 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. <i>Journal of Water Process Engineering</i> , 2020, 36, 101329. | 5.6 | 23 |
| 26 | Methods for quantification of biosorption in high-rate activated sludge systems. <i>Biochemical Engineering Journal</i> , 2017, 128, 33-44. | 3.6 | 22 |
| 27 | Stoichiometric and kinetic characterization of an acid-tolerant ammonia oxidizer <i>Candidatus Nitrosoglobus</i> TM . <i>Water Research</i> , 2021, 196, 117026. | 11.3 | 22 |
| 28 | Efficient Total Nitrogen Removal in an Ammonia Gas Biofilter through High-Rate OLAND. <i>Environmental Science & Technology</i> , 2012, 46, 8826-8833. | 10.0 | 20 |
| 29 | Successful hydraulic strategies to start up OLAND sequencing batch reactors at lab scale. <i>Microbial Biotechnology</i> , 2012, 5, 403-414. | 4.2 | 18 |
| 30 | Limit of stokesian settling concentration characterizes sludge settling velocity. <i>Water Research</i> , 2016, 90, 100-110. | 11.3 | 18 |
| 31 | 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 |
| 32 | Primary sludge fermentate as carbon source for mainstream partial denitrification ^{anammox} (PdNA). <i>Water Environment Research</i> , 2021, 93, 1044-1059. | 2.7 | 18 |
| 33 | 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 |
| 34 | Partial denitrification ^{anammox} (PdNA) application in mainstream IFAS configuration using raw fermentate as carbon source. <i>Water Environment Research</i> , 2022, 94, e10711. | 2.7 | 18 |
| 35 | 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 |
| 36 | Roadmap Toward Energy Neutrality & Chemical Optimization at Enhanced Nutrient Removal Facilities. <i>Proceedings of the Water Environment Federation</i> , 2013, 2013, 702-731. | 0.0 | 11 |

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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 | 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 |
| 39 | Full-scale transition from denitrification to partial denitrification-anammox (PdNA) in deep-bed filters: Operational strategies for and benefits of PdNA implementation. <i>Water Environment Research</i> , 2022, 94, . | 2.7 | 11 |
| 40 | Colloids, flocculation and carbon capture – a comprehensive plant-wide model. <i>Water Science and Technology</i> , 2019, 79, 15-25. | 2.5 | 10 |
| 41 | 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 |
| 42 | Startup strategies for mainstream anammox polishing in moving bed biofilm reactors. <i>Water Environment Research</i> , 2022, 94, . | 2.7 | 9 |
| 43 | Towards more predictive clarification models via experimental determination of flocculent settling coefficient value. <i>Water Research</i> , 2021, 190, 116294. | 11.3 | 8 |
| 44 | 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 |
| 45 | Increasing oxygen transfer efficiency through sorption enhancing strategies. <i>Water Research</i> , 2020, 183, 116086. | 11.3 | 7 |
| 46 | “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. <i>Proceedings of the Water Environment Federation</i> , 2016, 2016, 3385-3394. | 0.0 | 7 |
| 47 | 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 |
| 48 | 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 |
| 49 | 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 |
| 50 | 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 |
| 51 | The inhibitory impact of ammonia on thermally hydrolyzed sludge fed anaerobic digestion. <i>Water Environment Research</i> , 2021, 93, 1263-1275. | 2.7 | 5 |
| 52 | Mainstream short-cut N removal modelling: current status and perspectives. <i>Water Science and Technology</i> , 2022, 85, 2539-2564. | 2.5 | 5 |
| 53 | Media selection for anammox-based polishing filters: balancing anammox enrichment and retention with filtration function. <i>Water Environment Research</i> , 0, , . | 2.7 | 5 |
| 54 | Mainstream partial denitrification-anammox in sand and expanded clay deep-bed polishing filters under practical loading rates and backwashing conditions. <i>Water Environment Research</i> , 2022, 94, . | 2.7 | 5 |

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|----|---|------|-----------|
| 55 | Autotrophic nitrogen removal after ureolytic phosphate precipitation to remove both endogenous and exogenous nitrogen. <i>Water Science and Technology</i> , 2013, 67, 1425-1433. | 2.5 | 4 |
| 56 | 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 |
| 57 | Metrics for Settling of Flocculent and Granular Solids.. <i>Proceedings of the Water Environment Federation</i> , 2014, 2014, 839-846. | 0.0 | 2 |
| 58 | From nitrite shunt to mainstream deammonification strategy: pilot-scale demonstration. <i>Proceedings of the Water Environment Federation</i> , 2014, 2014, 4244-4248. | 0.0 | 2 |
| 59 | Does operation at increased ammonia concentration impact hydrolysis rates. <i>Proceedings of the Water Environment Federation</i> , 2017, 2017, 60-63. | 0.0 | 2 |
| 60 | NOB out-selection in rotating biological contactors for sidestream and mainstream deammonification. <i>Proceedings of the Water Environment Federation</i> , 2013, 2013, 1948-1958. | 0.0 | 1 |
| 61 | Roadmap To Energy & Chemical Optimization Through The Use of Mainstream Deammonification at Enhanced Nutrient Removal Facilities. <i>Proceedings of the Water Environment Federation</i> , 2013, 2013, 2226-2249. | 0.0 | 1 |
| 62 | The Effect Of Sludge Age On Biokinetic Coefficients. <i>Proceedings of the Water Environment Federation</i> , 2014, 2014, 3794-3798. | 0.0 | 1 |
| 63 | 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 |
| 64 | Quantifying Flocculation Capacity of Activated Sludge.. <i>Proceedings of the Water Environment Federation</i> , 2015, 2015, 3466-3475. | 0.0 | 1 |
| 65 | Impact of RAS Aeration on Bioflocculation and Carbon Redirection in High-Rate Activated Sludge Processes. <i>Proceedings of the Water Environment Federation</i> , 2016, 2016, 4261-4270. | 0.0 | 1 |
| 66 | Efficient THP-AD Filtrate Treatment via Optimized Control Strategies in Sidestream Deammonification Reactor. <i>Proceedings of the Water Environment Federation</i> , 2015, 2015, 6538-6549. | 0.0 | 1 |
| 67 | Practical Application of Novel Settling Characteristics Metrics to Localize Solids Separation Limitations.. <i>Proceedings of the Water Environment Federation</i> , 2016, 2016, 3318-3325. | 0.0 | 1 |
| 68 | 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 |
| 69 | Balancing Denitrification and Anammox Activities in Mainstream Deammonification: Influence of COD Input and Aeration Regime. <i>Proceedings of the Water Environment Federation</i> , 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. <i>Water Environment Research</i> , 2020, 92, 378-388. | 2.7 | 0 |
| 71 | Mechanical Cleaning/Treatment Method for Mitigating Membrane Diffuser Fouling and Improving Aeration Efficiency. <i>Proceedings of the Water Environment Federation</i> , 2015, 2015, 4078-4086. | 0.0 | 0 |
| 72 | Effect of biological process rate on fouling of fine-pore diffusers. <i>Proceedings of the Water Environment Federation</i> , 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 nitrification/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 |