

Susanne Lackner

List of Publications by Year in descending order

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Version: 2024-02-01

66
papers

4,146
citations

186209

28
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118793

62
g-index

72
all docs

72
docs citations

72
times ranked

2846
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Full-scale partial nitrification/anammox experiences – An application survey. <i>Water Research</i> , 2014, 55, 292-303. | 5.3 | 1,401 |
| 2 | Low Temperature Partial Nitrification/Anammox in a Moving Bed Biofilm Reactor Treating Low Strength Wastewater. <i>Environmental Science & Technology</i> , 2014, 48, 8784-8792. | 4.6 | 319 |
| 3 | Comparing different reactor configurations for Partial Nitrification/Anammox at low temperatures. <i>Water Research</i> , 2015, 81, 92-100. | 5.3 | 214 |
| 4 | Heterotrophic activity compromises autotrophic nitrogen removal in membrane-aerated biofilms: Results of a modeling study. <i>Water Research</i> , 2008, 42, 1102-1112. | 5.3 | 175 |
| 5 | Response of Different <i>Nitrospira</i> Species To Anoxic Periods Depends on Operational DO. <i>Environmental Science & Technology</i> , 2014, 48, 2934-2941. | 4.6 | 139 |
| 6 | Success of mainstream partial nitrification/anammox demands integration of engineering, microbiome and modeling insights. <i>Current Opinion in Biotechnology</i> , 2018, 50, 214-221. | 3.3 | 123 |
| 7 | Sequential Aeration of Membrane-Aerated Biofilm Reactors for High-Rate Autotrophic Nitrogen Removal: Experimental Demonstration. <i>Environmental Science & Technology</i> , 2010, 44, 7628-7634. | 4.6 | 109 |
| 8 | Long-term monitoring of SARS-CoV-2 RNA in wastewater of the Frankfurt metropolitan area in Southern Germany. <i>Scientific Reports</i> , 2021, 11, 5372. | 1.6 | 108 |
| 9 | Redox-stratification controlled biofilm (ReSCoBi) for completely autotrophic nitrogen removal: The effect of co- versus counter-diffusion on reactor performance. <i>Biotechnology and Bioengineering</i> , 2007, 97, 40-51. | 1.7 | 84 |
| 10 | Nitrification performance in membrane-aerated biofilm reactors differs from conventional biofilm systems. <i>Water Research</i> , 2010, 44, 6073-6084. | 5.3 | 70 |
| 11 | Modeling of Biofilm Systems: A Review. <i>Advances in Biochemical Engineering/Biotechnology</i> , 2014, 146, 53-76. | 0.6 | 65 |
| 12 | Evaluating operation strategies and process stability of a single stage nitrification–anammox SBR by use of the oxidation–reduction potential (ORP). <i>Bioresource Technology</i> , 2012, 107, 70-77. | 4.8 | 61 |
| 13 | Enhancing the formation and shear resistance of nitrifying biofilms on membranes by surface modification. <i>Water Research</i> , 2009, 43, 3469-3478. | 5.3 | 60 |
| 14 | Inoculum effects on community composition and nitrification performance of autotrophic nitrifying biofilm reactors with counter–diffusion geometry. <i>Environmental Microbiology</i> , 2010, 12, 2858-2872. | 1.8 | 59 |
| 15 | High-resolution mapping and modeling of anammox recovery from recurrent oxygen exposure. <i>Water Research</i> , 2018, 144, 522-531. | 5.3 | 52 |
| 16 | Nitrification performance and biofilm development of co- and counter-diffusion biofilm reactors: Modeling and experimental comparison. <i>Water Research</i> , 2009, 43, 2699-2709. | 5.3 | 51 |
| 17 | Membrane aerated biofilm reactors for mainstream partial nitrification/anammox: Experiences using real municipal wastewater. <i>Water Research X</i> , 2020, 9, 100066. | 2.8 | 48 |
| 18 | Influence of seasonal temperature fluctuations on two different partial nitrification-anammox reactors treating mainstream municipal wastewater. <i>Water Science and Technology</i> , 2015, 72, 1358-1363. | 1.2 | 46 |

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|----|--|-----|-----------|
| 19 | First quantification of semi-crystalline microplastics in industrial wastewaters. <i>Chemosphere</i> , 2020, 258, 127388. | 4.2 | 46 |
| 20 | Microbial activity catalyzes oxygen transfer in membrane-aerated nitrifying biofilm reactors. <i>Journal of Membrane Science</i> , 2013, 446, 465-471. | 4.1 | 45 |
| 21 | Prevalence and circulation patterns of SARS-CoV-2 variants in European sewage mirror clinical data of 54 European cities. <i>Water Research</i> , 2022, 214, 118162. | 5.3 | 45 |
| 22 | Implications of biological activated carbon filters for micropollutant removal in wastewater treatment. <i>Water Research</i> , 2021, 189, 116588. | 5.3 | 44 |
| 23 | Comparing the performance and operation stability of an SBR and MBBR for single-stage nitrification-anammox treating wastewater with high organic load. <i>Environmental Technology (United Kingdom)</i> 10.1080/09593333.2021.1981492 / Over | 4.7 | 40 |
| 24 | Swinging ORP™ as operation strategy for stable reject water treatment by nitrification-anammox in sequencing batch reactors. <i>Chemical Engineering Journal</i> , 2012, 180, 190-196. | 6.6 | 41 |
| 25 | Empty bed contact time: The key for micropollutant removal in activated carbon filters. <i>Water Research</i> , 2021, 191, 116765. | 5.3 | 37 |
| 26 | Start-up of a full-scale deammonification SBR-treating effluent from digested sludge dewatering. <i>Water Science and Technology</i> , 2015, 71, 553-559. | 1.2 | 33 |
| 27 | Interaction between wastewater microorganisms and geopolymer or cementitious materials: Biofilm characterization and deterioration characteristics of mortars. <i>International Biodeterioration and Biodegradation</i> , 2018, 134, 58-67. | 1.9 | 33 |
| 28 | Investigating biofilm structure developing on carriers from lab-scale moving bed biofilm reactors based on light microscopy and optical coherence tomography. <i>Bioresource Technology</i> , 2016, 200, 128-136. | 4.8 | 32 |
| 29 | The role of inoculum and reactor configuration for microbial community composition and dynamics in mainstream partial nitrification anammox reactors. <i>MicrobiologyOpen</i> , 2017, 6, e00456. | 1.2 | 32 |
| 30 | Fast and easy quantification of semi-crystalline microplastics in exemplary environmental matrices by differential scanning calorimetry (DSC). <i>Chemical Engineering Journal</i> , 2021, 423, 129941. | 6.6 | 32 |
| 31 | Characterisation and application of ultra-high spin clusters as magnetic resonance relaxation agents. <i>Dalton Transactions</i> , 2015, 44, 5032-5040. | 1.6 | 29 |
| 32 | Assessing the influence of biofilm surface roughness on mass transfer by combining optical coherence tomography and two-dimensional modeling. <i>Biotechnology and Bioengineering</i> , 2016, 113, 989-1000. | 1.7 | 29 |
| 33 | On resolving ambiguities in microbial community analysis of partial nitrification anammox reactors. <i>Scientific Reports</i> , 2019, 9, 6954. | 1.6 | 29 |
| 34 | Microbial activity of suspended biomass from a nitrification-anammox SBR in dependence of operational condition and size fraction. <i>Applied Microbiology and Biotechnology</i> , 2013, 97, 8795-8804. | 1.7 | 24 |
| 35 | Determining the flow regime in a biofilm carrier by means of magnetic resonance imaging. <i>Biotechnology and Bioengineering</i> , 2015, 112, 1023-1032. | 1.7 | 24 |
| 36 | Genome Sequencing of Wastewater Confirms the Arrival of the SARS-CoV-2 Omicron Variant at Frankfurt Airport but Limited Spread in the City of Frankfurt, Germany, in November 2021. <i>Microbiology Resource Announcements</i> , 2022, 11, e0122921. | 0.3 | 24 |

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|----|---|-----|-----------|
| 37 | Metatranscriptomic Analysis Reveals SARS-CoV-2 Mutations in Wastewater of the Frankfurt Metropolitan Area in Southern Germany. <i>Microbiology Resource Announcements</i> , 2021, 10, . | 0.3 | 23 |
| 38 | Combination of ¹⁵ N Tracer and Microbial Analyses Discloses N ₂ O Sink Potential of the Anammox Community. <i>Environmental Science & Technology</i> , 2021, 55, 9231-9242. | 4.6 | 23 |
| 39 | NMR investigation of water diffusion in different biofilm structures. <i>Biotechnology and Bioengineering</i> , 2017, 114, 2857-2867. | 1.7 | 21 |
| 40 | Effect of the kinetics of ammonium and nitrite oxidation on nitrification success or failure for different biofilm reactor geometries. <i>Biochemical Engineering Journal</i> , 2012, 69, 123-129. | 1.8 | 20 |
| 41 | ADM1 modeling of UASB treating domestic wastewater in Nepal. <i>Renewable Energy</i> , 2016, 95, 263-268. | 4.3 | 20 |
| 42 | Elevated levels of antibiotic resistance in groundwater during treated wastewater irrigation associated with infiltration and accumulation of antibiotic residues. <i>Journal of Hazardous Materials</i> , 2022, 423, 127155. | 6.5 | 20 |
| 43 | Short and long term biosorption of silica-coated iron oxide nanoparticles in heterotrophic biofilms. <i>Science of the Total Environment</i> , 2016, 544, 722-729. | 3.9 | 19 |
| 44 | Membrane Aerated Biofilm Reactors – How longitudinal gradients influence nitrogen removal – A conceptual study. <i>Water Research</i> , 2019, 166, 115060. | 5.3 | 18 |
| 45 | Determining uncertainties in PICRUST analysis – An easy approach for autotrophic nitrogen removal. <i>Biochemical Engineering Journal</i> , 2019, 152, 107328. | 1.8 | 16 |
| 46 | The role of interactions of effective biofilm surface area and mass transfer in nitrogen removal efficiency of an integrated fixed-film activated sludge system. <i>Chemical Engineering Journal</i> , 2018, 350, 992-999. | 6.6 | 14 |
| 47 | Direct surface visualization of biofilms with high spin coordination clusters using Magnetic Resonance Imaging. <i>Acta Biomaterialia</i> , 2016, 31, 167-177. | 4.1 | 13 |
| 48 | Low biosorption of PVA coated engineered magnetic nanoparticles in granular sludge assessed by magnetic susceptibility. <i>Science of the Total Environment</i> , 2015, 537, 43-50. | 3.9 | 10 |
| 49 | Assuring water quality along multi-barrier treatment systems for agricultural water reuse. <i>Journal of Water Reuse and Desalination</i> , 2020, 10, 332-346. | 1.2 | 10 |
| 50 | Targeted metagenomics reveals extensive diversity of the denitrifying community in partial nitrification anammox and activated sludge systems. <i>Biotechnology and Bioengineering</i> , 2021, 118, 433-441. | 1.7 | 10 |
| 51 | Recent NMR/MRI studies of biofilm structures and dynamics. <i>Annual Reports on NMR Spectroscopy</i> , 2019, 97, 163-213. | 0.7 | 9 |
| 52 | A multi-component model for granular activated carbon filters combining biofilm and adsorption kinetics. <i>Water Research</i> , 2021, 197, 117079. | 5.3 | 9 |
| 53 | Tertiary phosphorus removal to extremely low levels by coagulation-flocculation and cloth-filtration. <i>Water Science and Technology</i> , 2020, 82, 131-143. | 1.2 | 8 |
| 54 | High-throughput profiling of antibiotic resistance genes in wastewater: comparison between a pond system in Namibia and an activated sludge treatment in Germany. <i>Journal of Water and Health</i> , 2020, 18, 867-878. | 1.1 | 8 |

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|----|--|-----|-----------|
| 55 | 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. | 5.3 | 8 |
| 56 | Quantification of particulate matter attached to the bulk-biofilm interface and its influence on local mass transfer. <i>Separation and Purification Technology</i> , 2018, 197, 86-94. | 3.9 | 6 |
| 57 | Exploration and enrichment of methane-oxidizing bacteria derived from a rice paddy field emitting highly concentrated methane. <i>Journal of Bioscience and Bioengineering</i> , 2020, 130, 311-318. | 1.1 | 6 |
| 58 | Identification of a Metagenome-Assembled Genome of an Uncultured <i>Methyloceanibacter</i> sp. Strain Acquired from an Activated Sludge System Used for Landfill Leachate Treatment. <i>Microbiology Resource Announcements</i> , 2020, 9, . | 0.3 | 4 |
| 59 | Identifying technical synergy effects for organic micro-pollutants removal. <i>Water Practice and Technology</i> , 2018, 13, 346-354. | 1.0 | 3 |
| 60 | Lost in translation: the quest for <i>Nitrosomonas</i> cluster 7-specific <i>amoA</i> primers and TaqMan probes. <i>Microbial Biotechnology</i> , 2020, 13, 2069-2076. | 2.0 | 3 |
| 61 | Characterization and evaluation of waste stabilization pond systems in Namibia. <i>H2Open Journal</i> , 2022, 5, 365-378. | 0.8 | 3 |
| 62 | Enhancement of overloaded waste stabilization ponds using different pretreatment technologies: a comparative study from Namibia. <i>Journal of Water Reuse and Desalination</i> , 2020, 10, 500-512. | 1.2 | 2 |
| 63 | Metagenomic Insights Into Functional and Taxonomic Compositions of an Activated Sludge Microbial Community Treating Leachate of a Completed Landfill: A Pathway-Based Analysis. <i>Frontiers in Microbiology</i> , 2021, 12, 640848. | 1.5 | 2 |
| 64 | Looking deeper “ exploring hidden patterns in reactor data of N-removal systems through clustering analysis. <i>Water Science and Technology</i> , 2020, 81, 1569-1577. | 1.2 | 2 |
| 65 | Are “Strategists Yield“ Strategists in disguise? An example from autotrophic nitrogen removal. <i>Biotechnology and Bioengineering</i> , 2022, , . | 1.7 | 1 |
| 66 | Model Prediction of Completely Autotrophic Nitrogen Removal under Different Reactor Configurations. <i>Proceedings of the Water Environment Federation</i> , 2008, 2008, 3082-3100. | 0.0 | 0 |