

# Susanne Lackner

## List of Publications by Year in descending order

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Version: 2024-02-01

66  
papers

4,146  
citations

186265

28  
h-index

118850

62  
g-index

72  
all docs

72  
docs citations

72  
times ranked

2846  
citing authors

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | 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.                        | 12.4 | 20        |
| 2  | 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. | 0.6  | 24        |
| 3  | Are <i>Klebsiella</i> Strategists Yielding to Strategists in Disguise? An Example from Autotrophic Nitrogen Removal. <i>Biotechnology and Bioengineering</i> , 2022, , .   | 3.3  | 1         |
| 4  | 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.   | 11.3 | 45        |
| 5  | Characterization and Evaluation of Waste Stabilization Pond Systems in Namibia. <i>H2Open Journal</i> , 2022, 5, 365-378.  | 1.7  | 3         |
| 6  | 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.  | 11.3 | 8         |
| 7  | Implications of Biological Activated Carbon Filters for Micropollutant Removal in Wastewater Treatment. <i>Water Research</i> , 2021, 189, 116588.   | 11.3 | 44        |
| 8  | 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.   | 3.3  | 10        |
| 9  | Empty Bed Contact Time: The Key for Micropollutant Removal in Activated Carbon Filters. <i>Water Research</i> , 2021, 191, 116765.   | 11.3 | 37        |
| 10 | 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.   | 3.3  | 108       |
| 11 | 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.                 | 3.5  | 2         |
| 12 | Metatranscriptomic Analysis Reveals SARS-CoV-2 Mutations in Wastewater of the Frankfurt Metropolitan Area in Southern Germany. <i>Microbiology Resource Announcements</i> , 2021, 10, .  | 0.6  | 23        |
| 13 | A Multi-Component Model for Granular Activated Carbon Filters Combining Biofilm and Adsorption Kinetics. <i>Water Research</i> , 2021, 197, 117079.  | 11.3 | 9         |
| 14 | Combination of <sup>15</sup> N Tracer and Microbial Analyses Discloses N <sub>2</sub> O Sink Potential of the Anammox Community. <i>Environmental Science &amp; Technology</i> , 2021, 55, 9231-9242.  | 10.0 | 23        |
| 15 | 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.  | 12.7 | 32        |
| 16 | Membrane Aerated Biofilm Reactors for Mainstream Partial Nitrification/Anammox: Experiences Using Real Municipal Wastewater. <i>Water Research X</i> , 2020, 9, 100066.  | 6.1  | 48        |
| 17 | Assuring Water Quality Along Multi-Barrier Treatment Systems for Agricultural Water Reuse. <i>Journal of Water Reuse and Desalination</i> , 2020, 10, 332-346.   | 2.3  | 10        |
| 18 | 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.   | 4.2  | 3         |

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|----|--|------|-----------|
| 19 | 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.   | 2.3  | 2         |
| 20 | Tertiary phosphorus removal to extremely low levels by coagulation-flocculation and cloth-filtration. <i>Water Science and Technology</i> , 2020, 82, 131-143.   | 2.5  | 8         |
| 21 | 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.                    | 2.6  | 8         |
| 22 | 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, . | 0.6  | 4         |
| 23 | 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.   | 2.2  | 6         |
| 24 | First quantification of semi-crystalline microplastics in industrial wastewaters. <i>Chemosphere</i> , 2020, 258, 127388.  | 8.2  | 46        |
| 25 | 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.  | 2.5  | 2         |
| 26 | Determining uncertainties in PICRUST analysis – An easy approach for autotrophic nitrogen removal. <i>Biochemical Engineering Journal</i> , 2019, 152, 107328.   | 3.6  | 16        |
| 27 | Membrane Aerated Biofilm Reactors – How longitudinal gradients influence nitrogen removal – A conceptual study. <i>Water Research</i> , 2019, 166, 115060.   | 11.3 | 18        |
| 28 | Recent NMR/MRI studies of biofilm structures and dynamics. <i>Annual Reports on NMR Spectroscopy</i> , 2019, 97, 163-213.  | 1.5  | 9         |
| 29 | On resolving ambiguities in microbial community analysis of partial nitrification anammox reactors. <i>Scientific Reports</i> , 2019, 9, 6954.   | 3.3  | 29        |
| 30 | Success of mainstream partial nitrification/anammox demands integration of engineering, microbiome and modeling insights. <i>Current Opinion in Biotechnology</i> , 2018, 50, 214-221.   | 6.6  | 123       |
| 31 | 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.  | 7.9  | 6         |
| 32 | 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.  | 3.9  | 33        |
| 33 | 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.                   | 12.7 | 14        |
| 34 | High-resolution mapping and modeling of anammox recovery from recurrent oxygen exposure. <i>Water Research</i> , 2018, 144, 522-531.   | 11.3 | 52        |
| 35 | Identifying technical synergy effects for organic micro-pollutants removal. <i>Water Practice and Technology</i> , 2018, 13, 346-354.  | 2.0  | 3         |
| 36 | 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.   | 3.0  | 32        |

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|----|---|------|-----------|
| 37 | NMR investigation of water diffusion in different biofilm structures. <i>Biotechnology and Bioengineering</i> , 2017, 114, 2857-2867.   | 3.3  | 21        |
| 38 | ADM1 modeling of UASB treating domestic wastewater in Nepal. <i>Renewable Energy</i> , 2016, 95, 263-268.   | 8.9  | 20        |
| 39 | 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.      | 3.3  | 29        |
| 40 | Direct surface visualization of biofilms with high spin coordination clusters using Magnetic Resonance Imaging. <i>Acta Biomaterialia</i> , 2016, 31, 167-177.  | 8.3  | 13        |
| 41 | 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.  | 8.0  | 19        |
| 42 | 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. | 9.6  | 32        |
| 43 | 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.       | 2.5  | 46        |
| 44 | 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.                               | 8.0  | 10        |
| 45 | Characterisation and application of ultra-high spin clusters as magnetic resonance relaxation agents. <i>Dalton Transactions</i> , 2015, 44, 5032-5040.   | 3.3  | 29        |
| 46 | Start-up of a full-scale deammonification SBR-treating effluent from digested sludge dewatering. <i>Water Science and Technology</i> , 2015, 71, 553-559.   | 2.5  | 33        |
| 47 | Determining the flow regime in a biofilm carrier by means of magnetic resonance imaging. <i>Biotechnology and Bioengineering</i> , 2015, 112, 1023-1032.  | 3.3  | 24        |
| 48 | Comparing different reactor configurations for Partial Nitrification/Anammox at low temperatures. <i>Water Research</i> , 2015, 81, 92-100.   | 11.3 | 214       |
| 49 | Modeling of Biofilm Systems: A Review. <i>Advances in Biochemical Engineering/Biotechnology</i> , 2014, 146, 53-76.   | 1.1  | 65        |
| 50 | Low Temperature Partial Nitrification/Anammox in a Moving Bed Biofilm Reactor Treating Low Strength Wastewater. <i>Environmental Science &amp; Technology</i> , 2014, 48, 8784-8792.                              | 10.0 | 319       |
| 51 | Response of Different <i>Nitrospira</i> Species To Anoxic Periods Depends on Operational DO. <i>Environmental Science &amp; Technology</i> , 2014, 48, 2934-2941.   | 10.0 | 139       |
| 52 | Full-scale partial nitrification/anammox experiences – An application survey. <i>Water Research</i> , 2014, 55, 292-303.  | 11.3 | 1,401     |
| 53 | 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.           | 3.6  | 24        |
| 54 | Microbial activity catalyzes oxygen transfer in membrane-aerated nitrifying biofilm reactors. <i>Journal of Membrane Science</i> , 2013, 446, 465-471.  | 8.2  | 45        |

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|----|---|------|-----------|
| 55 | 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> , 2012, 33, 1431-1442. | 11.3 | 14        |
| 56 | 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.                              | 3.6  | 20        |
| 57 | “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.   | 12.7 | 41        |
| 58 | 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.                          | 9.6  | 61        |
| 59 | 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.                    | 3.8  | 59        |
| 60 | Sequential Aeration of Membrane-Aerated Biofilm Reactors for High-Rate Autotrophic Nitrogen Removal: Experimental Demonstration. <i>Environmental Science &amp; Technology</i> , 2010, 44, 7628-7634.                           | 10.0 | 109       |
| 61 | Nitrification performance in membrane-aerated biofilm reactors differs from conventional biofilm systems. <i>Water Research</i> , 2010, 44, 6073-6084.  | 11.3 | 70        |
| 62 | Nitrification performance and biofilm development of co- and counter-diffusion biofilm reactors: Modeling and experimental comparison. <i>Water Research</i> , 2009, 43, 2699-2709.   | 11.3 | 51        |
| 63 | Enhancing the formation and shear resistance of nitrifying biofilms on membranes by surface modification. <i>Water Research</i> , 2009, 43, 3469-3478.  | 11.3 | 60        |
| 64 | Heterotrophic activity compromises autotrophic nitrogen removal in membrane-aerated biofilms: Results of a modeling study. <i>Water Research</i> , 2008, 42, 1102-1112.   | 11.3 | 175       |
| 65 | 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         |
| 66 | 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.    | 3.3  | 84        |