

# Susanne Lackner

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6780733/publications.pdf>

Version: 2024-02-01

66  
papers

4,146  
citations

186209

28  
h-index

118793

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.	6.5	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.	0.3	24
3	Are <i>Klebsiella</i> Strategists Yielding to Strategists in Disguise? An Example from Autotrophic Nitrogen Removal. <i>Biotechnology and Bioengineering</i> , 2022, , .	1.7	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.	5.3	45
5	Characterization and Evaluation of Waste Stabilization Pond Systems in Namibia. <i>H2Open Journal</i> , 2022, 5, 365-378.	0.8	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.	5.3	8
7	Implications of Biological Activated Carbon Filters for Micropollutant Removal in Wastewater Treatment. <i>Water Research</i> , 2021, 189, 116588.	5.3	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.	1.7	10
9	Empty Bed Contact Time: The Key for Micropollutant Removal in Activated Carbon Filters. <i>Water Research</i> , 2021, 191, 116765.	5.3	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.	1.6	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.	1.5	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, .	0.3	23
13	A Multi-Component Model for Granular Activated Carbon Filters Combining Biofilm and Adsorption Kinetics. <i>Water Research</i> , 2021, 197, 117079.	5.3	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.	4.6	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.	6.6	32
16	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
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.	1.2	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.	2.0	3

#	ARTICLE	IF	CITATIONS
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.	1.2	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.	1.2	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.	1.1	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, .	0.3	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.	1.1	6
24	First quantification of semi-crystalline microplastics in industrial wastewaters. <i>Chemosphere</i> , 2020, 258, 127388.	4.2	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.	1.2	2
26	Determining uncertainties in PICRUST analysis – An easy approach for autotrophic nitrogen removal. <i>Biochemical Engineering Journal</i> , 2019, 152, 107328.	1.8	16
27	Membrane Aerated Biofilm Reactors – How longitudinal gradients influence nitrogen removal – A conceptual study. <i>Water Research</i> , 2019, 166, 115060.	5.3	18
28	Recent NMR/MRI studies of biofilm structures and dynamics. <i>Annual Reports on NMR Spectroscopy</i> , 2019, 97, 163-213.	0.7	9
29	On resolving ambiguities in microbial community analysis of partial nitrification anammox reactors. <i>Scientific Reports</i> , 2019, 9, 6954.	1.6	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.	3.3	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.	3.9	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.	1.9	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.	6.6	14
34	High-resolution mapping and modeling of anammox recovery from recurrent oxygen exposure. <i>Water Research</i> , 2018, 144, 522-531.	5.3	52
35	Identifying technical synergy effects for organic micro-pollutants removal. <i>Water Practice and Technology</i> , 2018, 13, 346-354.	1.0	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.	1.2	32

#	ARTICLE	IF	CITATIONS
37	NMR investigation of water diffusion in different biofilm structures. <i>Biotechnology and Bioengineering</i> , 2017, 114, 2857-2867.	1.7	21
38	ADM1 modeling of UASB treating domestic wastewater in Nepal. <i>Renewable Energy</i> , 2016, 95, 263-268.	4.3	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.	1.7	29
40	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
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.	3.9	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.	4.8	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.	1.2	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.	3.9	10
45	Characterisation and application of ultra-high spin clusters as magnetic resonance relaxation agents. <i>Dalton Transactions</i> , 2015, 44, 5032-5040.	1.6	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.	1.2	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.	1.7	24
48	Comparing different reactor configurations for Partial Nitrification/Anammox at low temperatures. <i>Water Research</i> , 2015, 81, 92-100.	5.3	214
49	Modeling of Biofilm Systems: A Review. <i>Advances in Biochemical Engineering/Biotechnology</i> , 2014, 146, 53-76.	0.6	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.	4.6	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.	4.6	139
52	Full-scale partial nitrification/anammox experiences – An application survey. <i>Water Research</i> , 2014, 55, 292-303.	5.3	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.	1.7	24
54	Microbial activity catalyzes oxygen transfer in membrane-aerated nitrifying biofilm reactors. <i>Journal of Membrane Science</i> , 2013, 446, 465-471.	4.1	45

#	ARTICLE	IF	CITATIONS
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.	1.8	20
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.	1.8	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.	6.6	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.	4.8	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.	1.8	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.	4.6	109
61	Nitrification performance in membrane-aerated biofilm reactors differs from conventional biofilm systems. <i>Water Research</i> , 2010, 44, 6073-6084.	5.3	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.	5.3	51
63	Enhancing the formation and shear resistance of nitrifying biofilms on membranes by surface modification. <i>Water Research</i> , 2009, 43, 3469-3478.	5.3	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.	5.3	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.	1.7	84