Susanne Lackner

List of Publications by Year in descending order

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66 papers 4,146 citations

28 h-index

186265

62 g-index

72 all docs 72 docs citations

times ranked

72

2846 citing authors

#	Article	IF	CITATIONS
1	Full-scale partial nitritation/anammox experiences – An application survey. Water Research, 2014, 55, 292-303.	11.3	1,401
2	Low Temperature Partial Nitritation/Anammox in a Moving Bed Biofilm Reactor Treating Low Strength Wastewater. Environmental Science & Environmental Sc	10.0	319
3	Comparing different reactor configurations for Partial Nitritation/Anammox at low temperatures. Water Research, 2015, 81, 92-100.	11.3	214
4	Heterotrophic activity compromises autotrophic nitrogen removal in membrane-aerated biofilms: Results of a modeling study. Water Research, 2008, 42, 1102-1112.	11.3	175
5	Response of Different <i>Nitrospira</i> Species To Anoxic Periods Depends on Operational DO. Environmental Science & Environme	10.0	139
6	Success of mainstream partial nitritation/anammox demands integration of engineering, microbiome and modeling insights. Current Opinion in Biotechnology, 2018, 50, 214-221.	6.6	123
7	Sequential Aeration of Membrane-Aerated Biofilm Reactors for High-Rate Autotrophic Nitrogen Removal: Experimental Demonstration. Environmental Science & Experimental Demonstration. Environmental Science & Experimental Demonstration.	10.0	109
8	Long-term monitoring of SARS-CoV-2 RNA in wastewater of the Frankfurt metropolitan area in Southern Germany. Scientific Reports, 2021, 11, 5372.	3.3	108
9	Redox-stratification controlled biofilm (ReSCoBi) for completely autotrophic nitrogen removal: The effect of co-versus counter-diffusion on reactor performance. Biotechnology and Bioengineering, 2007, 97, 40-51.	3.3	84
10	Nitritation performance in membrane-aerated biofilm reactors differs from conventional biofilm systems. Water Research, 2010, 44, 6073-6084.	11.3	70
11	Modeling of Biofilm Systems: A Review. Advances in Biochemical Engineering/Biotechnology, 2014, 146, 53-76.	1.1	65
12	Evaluating operation strategies and process stability of a single stage nitritation–anammox SBR by use of the oxidation–reduction potential (ORP). Bioresource Technology, 2012, 107, 70-77.	9.6	61
13	Enhancing the formation and shear resistance of nitrifying biofilms on membranes by surface modification. Water Research, 2009, 43, 3469-3478.	11.3	60
14	Inoculum effects on community composition and nitritation performance of autotrophic nitrifying biofilm reactors with counterâ€diffusion geometry. Environmental Microbiology, 2010, 12, 2858-2872.	3.8	59
15	High-resolution mapping and modeling of anammox recovery from recurrent oxygen exposure. Water Research, 2018, 144, 522-531.	11.3	52
16	Nitritation performance and biofilm development of co- and counter-diffusion biofilm reactors: Modeling and experimental comparison. Water Research, 2009, 43, 2699-2709.	11.3	51
17	Membrane aerated biofilm reactors for mainstream partial nitritation/anammox: Experiences using real municipal wastewater. Water Research X, 2020, 9, 100066.	6.1	48
18	Influence of seasonal temperature fluctuations on two different partial nitritation-anammox reactors treating mainstream municipal wastewater. Water Science and Technology, 2015, 72, 1358-1363.	2.5	46

#	Article	IF	CITATIONS
19	First quantification of semi-crystalline microplastics in industrial wastewaters. Chemosphere, 2020, 258, 127388.	8.2	46
20	Microbial activity catalyzes oxygen transfer in membrane-aerated nitritating biofilm reactors. Journal of Membrane Science, 2013, 446, 465-471.	8.2	45
21	Prevalence and circulation patterns of SARS-CoV-2 variants in European sewage mirror clinical data of 54 European cities. Water Research, 2022, 214, 118162.	11.3	45
22	Implications of biological activated carbon filters for micropollutant removal in wastewater treatment. Water Research, 2021, 189, 116588.	11.3	44
23	Comparing the performance and operation stability of an SBR and MBBR for single-stage nitritation-anammox treating wastewater with high organic load. Environmental Technology (United) Tj ETQq1 1	. 0 .7.2 431	4 r gB T/Oved
24	â€~Swinging ORP' as operation strategy for stable reject water treatment by nitritation–anammox in sequencing batch reactors. Chemical Engineering Journal, 2012, 180, 190-196.	12.7	41
25	Empty bed contact time: The key for micropollutant removal in activated carbon filters. Water Research, 2021, 191, 116765.	11.3	37
26	Start-up of a full-scale deammonification SBR-treating effluent from digested sludge dewatering. Water Science and Technology, 2015, 71, 553-559.	2.5	33
27	Interaction between wastewater microorganisms and geopolymer or cementitious materials: Biofilm characterization and deterioration characteristics of mortars. International Biodeterioration and Biodegradation, 2018, 134, 58-67.	3.9	33
28	Investigating biofilm structure developing on carriers from lab-scale moving bed biofilm reactors based on light microscopy and optical coherence tomography. Bioresource Technology, 2016, 200, 128-136.	9.6	32
29	The role of inoculum and reactor configuration for microbial community composition and dynamics in mainstream partial nitritation anammox reactors. MicrobiologyOpen, 2017, 6, e00456.	3.0	32
30	Fast and easy quantification of semi-crystalline microplastics in exemplary environmental matrices by differential scanning calorimetry (DSC). Chemical Engineering Journal, 2021, 423, 129941.	12.7	32
31	Characterisation and application of ultra-high spin clusters as magnetic resonance relaxation agents. Dalton Transactions, 2015, 44, 5032-5040.	3.3	29
32	Assessing the influence of biofilm surface roughness on mass transfer by combining optical coherence tomography and twoâ€dimensional modeling. Biotechnology and Bioengineering, 2016, 113, 989-1000.	3.3	29
33	On resolving ambiguities in microbial community analysis of partial nitritation anammox reactors. Scientific Reports, 2019, 9, 6954.	3.3	29
34	Microbial activity of suspended biomass from a nitritation–anammox SBR in dependence of operational condition and size fraction. Applied Microbiology and Biotechnology, 2013, 97, 8795-8804.	3.6	24
35	Determining the flow regime in a biofilm carrier by means of magnetic resonance imaging. Biotechnology and Bioengineering, 2015, 112, 1023-1032.	3.3	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. Microbiology Resource Announcements, 2022, 11, e0122921.	0.6	24

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37	Metatranscriptomic Analysis Reveals SARS-CoV-2 Mutations in Wastewater of the Frankfurt Metropolitan Area in Southern Germany. Microbiology Resource Announcements, 2021, 10, .	0.6	23
38	Combination of ¹⁵ N Tracer and Microbial Analyses Discloses N ₂ O Sink Potential of the Anammox Community. Environmental Science & Environmental Science & 2021, 55, 9231-9242.	10.0	23
39	NMR investigation of water diffusion in different biofilm structures. Biotechnology and Bioengineering, 2017, 114, 2857-2867.	3.3	21
40	Effect of the kinetics of ammonium and nitrite oxidation on nitritation success or failure for different biofilm reactor geometries. Biochemical Engineering Journal, 2012, 69, 123-129.	3.6	20
41	ADM1 modeling of UASB treating domestic wastewater in Nepal. Renewable Energy, 2016, 95, 263-268.	8.9	20
42	Elevated levels of antibiotic resistance in groundwater during treated wastewater irrigation associated with infiltration and accumulation of antibiotic residues. Journal of Hazardous Materials, 2022, 423, 127155.	12.4	20
43	Short and long term biosorption of silica-coated iron oxide nanoparticles in heterotrophic biofilms. Science of the Total Environment, 2016, 544, 722-729.	8.0	19
44	Membrane Aerated Biofilm Reactors – How longitudinal gradients influence nitrogen removal – A conceptual study. Water Research, 2019, 166, 115060.	11.3	18
45	Determining uncertainties in PICRUSt analysis – An easy approach for autotrophic nitrogen removal. Biochemical Engineering Journal, 2019, 152, 107328.	3.6	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. Chemical Engineering Journal, 2018, 350, 992-999.	12.7	14
47	Direct surface visualization of biofilms with high spin coordination clusters using Magnetic Resonance Imaging. Acta Biomaterialia, 2016, 31, 167-177.	8.3	13
48	Low biosorption of PVA coated engineered magnetic nanoparticles in granular sludge assessed by magnetic susceptibility. Science of the Total Environment, 2015, 537, 43-50.	8.0	10
49	Assuring water quality along multi-barrier treatment systems for agricultural water reuse. Journal of Water Reuse and Desalination, 2020, 10, 332-346.	2.3	10
50	Targeted metagenomics reveals extensive diversity of the denitrifying community in partial nitritation anammox and activated sludge systems. Biotechnology and Bioengineering, 2021, 118, 433-441.	3.3	10
51	Recent NMR/MRI studies of biofilm structures and dynamics. Annual Reports on NMR Spectroscopy, 2019, 97, 163-213.	1.5	9
52	A multi-component model for granular activated carbon filters combining biofilm and adsorption kinetics. Water Research, 2021, 197, 117079.	11.3	9
53	Tertiary phosphorus removal to extremely low levels by coagulation-flocculation and cloth-filtration. Water Science and Technology, 2020, 82, 131-143.	2.5	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. Journal of Water and Health, 2020, 18, 867-878.	2.6	8

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55	Time to act–assessing variations in qPCR analyses in biological nitrogen removal with examples from partial nitritation/anammox systems. Water Research, 2021, 190, 116604.	11.3	8
56	Quantification of particulate matter attached to the bulk-biofilm interface and its influence on local mass transfer. Separation and Purification Technology, 2018, 197, 86-94.	7.9	6
57	Exploration and enrichment of methane-oxidizing bacteria derived from a rice paddy field emitting highly concentrated methane. Journal of Bioscience and Bioengineering, 2020, 130, 311-318.	2.2	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. Microbiology Resource Announcements, 2020, 9, .	0.6	4
59	Identifying technical synergy effects for organic micro-pollutants removal. Water Practice and Technology, 2018, 13, 346-354.	2.0	3
60	Lost in translation: the quest for <i>Nitrosomonas</i> cluster 7â€specific <i>amoA</i> primers and TaqMan probes. Microbial Biotechnology, 2020, 13, 2069-2076.	4.2	3
61	Characterization and evaluation of waste stabilization pond systems in Namibia. H2Open Journal, 2022, 5, 365-378.	1.7	3
62	Enhancement of overloaded waste stabilization ponds using different pretreatment technologies: a comparative study from Namibia. Journal of Water Reuse and Desalination, 2020, 10, 500-512.	2.3	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. Frontiers in Microbiology, 2021, 12, 640848.	3.5	2
64	Looking deeper – exploring hidden patterns in reactor data of N-removal systems through clustering analysis. Water Science and Technology, 2020, 81, 1569-1577.	2.5	2
65	Are Kâ€Strategists Yield―Strategists in disguise? An example from autotrophic nitrogen removal. Biotechnology and Bioengineering, 2022, , .	3.3	1
66	Model Prediction of Completely Autotrophic Nitrogen Removal under Different Reactor Configurations. Proceedings of the Water Environment Federation, 2008, 2008, 3082-3100.	0.0	0