Matthias Labrenz

List of Publications by Year
in descending order

67	7,090	94433 37	114465 63
papers	citations	h-index	g-index

70	70	70	8141
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Agricultural application of microplastic-rich sewage sludge leads to further uncontrolled contamination. Science of the Total Environment, 2022, 806, 150611.	8.0	30
2	Microplastics into the Anthropocene. , 2022, , 1363-1378.		0
3	Assessment of Subsampling Strategies in Microspectroscopy of Environmental Microplastic Samples. Frontiers in Environmental Science, 2021, 8, .	3.3	26
4	Combined Approaches to Predict Microplastic Emissions Within an Urbanized Estuary (Warnow,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 6	3.3	25
5	Genomic and proteomic profiles of biofilms on microplastics are decoupled from artificial surface properties. Environmental Microbiology, 2021, 23, 3099-3115.	3.8	43
6	Cross-Hemisphere Study Reveals Geographically Ubiquitous, Plastic-Specific Bacteria Emerging from the Rare and Unexplored Biosphere. MSphere, 2021, 6, e0085120.	2.9	20
7	Measuring impacts of microplastic treatments via image recognition on immobilised particles below 100â€‰Î¼m. Microplastics and Nanoplastics, 2021, 1, .	8.8	9
8	Machine Learning Predicts the Presence of 2,4,6-Trinitrotoluene in Sediments of a Baltic Sea Munitions Dumpsite Using Microbial Community Compositions. Frontiers in Microbiology, 2021, 12, 626048.	3.5	6
9	Identification and quantification of microplastic particles in drinking water treatment sludge as an integrative approach to determine microplastic abundance in a freshwater river. Environmental Pollution, 2021, 286, 117524.	7.5	12
10	Vibrio Colonization Is Highly Dynamic in Early Microplastic-Associated Biofilms as Well as on Field-Collected Microplastics. Microorganisms, 2021, 9, 76.	3.6	48
11	Marine Microbial Assemblages on Microplastics: Diversity, Adaptation, and Role in Degradation. Annual Review of Marine Science, 2020, 12, 209-232.	11.6	264
12	Cultivation and functional characterization of 79 planctomycetes uncovers their unique biology. Nature Microbiology, 2020, 5, 126-140.	13.3	164
13	Evaluation of Electrostatic Separation of Microplastics From Mineral-Rich Environmental Samples. Frontiers in Environmental Science, 2020, 8, .	3.3	26
14	When every particle matters: A QuEChERS approach to extract microplastics from environmental samples. MethodsX, 2020, 7, 100784.	1.6	61
15	Microplastics into the Anthropocene. , 2020, , 1-16.		4
16	High-Throughput Analyses of Microplastic Samples Using Fourier Transform Infrared and Raman Spectrometry. Applied Spectroscopy, 2020, 74, 1185-1197.	2.2	39
17	Spatial Environmental Heterogeneity Determines Young Biofilm Assemblages on Microplastics in Baltic Sea Mesocosms. Frontiers in Microbiology, 2019, 10, 1665.	3.5	112
18	An artificial neural network and Random Forest identify glyphosate-impacted brackish communities based on 16S rRNA amplicon MiSeq read counts. Marine Pollution Bulletin, 2019, 149, 110530.	5.0	22

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19	Uneven host cell growth causes lysogenic virus induction in the Baltic Sea. PLoS ONE, 2019, 14, e0220716.	2.5	4
20	Paint particles are a distinct and variable substrate for marine bacteria. Marine Pollution Bulletin, 2019, 146, 117-124.	5.0	24
21	The Eukaryotic Life on Microplastics in Brackish Ecosystems. Frontiers in Microbiology, 2019, 10, 538.	3.5	109
22	Residual Monomer Content Affects the Interpretation of Plastic Degradation. Scientific Reports, 2019, 9, 2120.	3.3	28
23	Tracing microplastics in aquatic environments based on sediment analogies. Scientific Reports, 2019, 9, 15207.	3.3	68
24	A Glyphosate Pulse to Brackish Long-Term Microcosms Has a Greater Impact on the Microbial Diversity and Abundance of Planktonic Than of Biofilm Assemblages. Frontiers in Marine Science, 2019, 6, .	2.5	8
25	AFISsys - An autonomous instrument for the preservation of brackish water samples for microbial metatranscriptome analysis. Water Research, 2019, 149, 351-361.	11.3	4
26	<i>Sulfurimonas</i> subgroup GD17 cells accumulate polyphosphate under fluctuating redox conditions in the Baltic Sea: possible implications for their ecology. ISME Journal, 2019, 13, 482-493.	9.8	8
27	Closing Microplastic Pathways Before They Open: A Model Approach. Environmental Science & Technology, 2018, 52, 3340-3341.	10.0	17
28	Exploring the common denominator between microplastics and microbiology: a scientometric approach. Scientometrics, 2018, 117, 2145-2157.	3.0	20
29	Small Microplastic Sampling in Water: Development of an Encapsulated Filtration Device. Water (Switzerland), 2018, 10, 1055.	2.7	46
30	The pelagic food web. , 2017, , 281-332.		10
31	Biological indicators. , 2017, , 513-526.		2
32	Success of chemolithoautotrophic SUP05 and <i>Sulfurimonas</i> GD17 cells in pelagic Baltic Sea redox zones is facilitated by their lifestyles as <i>Kâ€•</i> and <i>r</i>â€•strategists. Environmental Microbiology, 2017, 19, 2495-2506.	3.8	26
33	Microplastics alter composition of fungal communities in aquatic ecosystems. Environmental Microbiology, 2017, 19, 4447-4459.	3.8	182
34	Fate and stability of polyamide-associated bacterial assemblages after their passage through the digestive tract of the blue mussel Mytilus edulis. Marine Pollution Bulletin, 2017, 125, 132-138.	5.0	24
35	Environmental Factors Support the Formation of Specific Bacterial Assemblages on Microplastics. Frontiers in Microbiology, 2017, 8, 2709.	3.5	349
36	A Bioreactor Approach to Investigate the Linkage between Methane Oxidation and Nitrate/Nitrite Reduction in the Pelagic Oxic-Anoxic Transition Zone of the Central Baltic Sea. Frontiers in Marine Science, 2016, 3, .	2.5	3

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37	Analysis of environmental microplastics by vibrational microspectroscopy: FTIR, Raman or both?. Analytical and Bioanalytical Chemistry, 2016, 408, 8377-8391.	3.7	611
38	Polystyrene influences bacterial assemblages in Arenicola marina-populated aquatic environments inÂvitro. Environmental Pollution, 2016, 219, 219-227.	7.5	44
39	Identification of microplastics by FTIR and Raman microscopy: a novel silicon filter substrate opens the important spectral range below 1300Âcmâ˜1 for FTIR transmission measurements. Analytical and Bioanalytical Chemistry, 2015, 407, 6791-6801.	3.7	215
40	Marine microplastic-associated biofilms â€" a review. Environmental Chemistry, 2015, 12, 551.	1.5	346
41	Pyruvate utilization by a chemolithoautotrophic epsilonproteobacterial key player of pelagic Baltic Sea redoxclines. FEMS Microbiology Ecology, 2014, 87, 770-779.	2.7	9
42	N and O Isotope Fractionation in Nitrate during Chemolithoautotrophic Denitrification by <i>Sulfurimonas gotlandica</i>. Environmental Science & Technology, 2014, 48, 13229-13237.	10.0	58
43	Acetate-utilizing bacteria at an oxic-anoxic interface in the Baltic Sea. FEMS Microbiology Ecology, 2013, 85, 251-261.	2.7	22
44	Impact of protist grazing on a key bacterial group for biogeochemical cycling in <scp>B</scp>altic <scp>S</scp>ea pelagic oxic/anoxic interfaces. Environmental Microbiology, 2013, 15, 1580-1594.	3.8	33
45	Chemolithoautotrophic denitrification of epsilonproteobacteria in marine pelagic redox gradients. Environmental Microbiology, 2013, 15, 1505-1513.	3.8	38
46	SUP05 Dominates the Gammaproteobacterial Sulfur Oxidizer Assemblages in Pelagic Redoxclines of the Central Baltic and Black Seas. Applied and Environmental Microbiology, 2013, 79, 2767-2776.	3.1	78
47	Sulfurimonas gotlandica sp. nov., a chemoautotrophic and psychrotolerant epsilonproteobacterium isolated from a pelagic redoxcline, and an emended description of the genus Sulfurimonas. International Journal of Systematic and Evolutionary Microbiology, 2013, 63, 4141-4148.	1.7	88
48	Measuring unbiased metatranscriptomics in suboxic waters of the central Baltic Sea using a new <i>in situ</i> fixation system. ISME Journal, 2012, 6, 461-470.	9.8	80
49	Hypoxia and nitrogen processing in the Baltic Sea water column. Limnology and Oceanography, 2012, 57, 325-337.	3.1	48
50	Genome and physiology of a model Epsilonproteobacterium responsible for sulfide detoxification in marine oxygen depletion zones. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 506-510.	7.1	138
51	Transitions in bacterial communities along the 2000â€‰km salinity gradient of the Baltic Sea. ISME Journal, 2011, 5, 1571-1579.	9.8	2,219
52	Bacterioneuston Community Structure in the Southern Baltic Sea and Its Dependence on Meteorological Conditions. Applied and Environmental Microbiology, 2011, 77, 3726-3733.	3.1	59
53	Anaerobic sulfur oxidation in the absence of nitrate dominates microbial chemoautotrophy beneath the pelagic chemocline of Ã¢Â€Âƒthe eastern Gotland Basin, Baltic Sea. FEMS Microbiology Ecology, 2010, 71, 226-236.	2.7	45
54	Diversity of active chemolithoautotrophic prokaryotes in the sulfidic zone of a Black Sea pelagic redoxcline as determined by rRNA-based stable isotope probing. FEMS Microbiology Ecology, 2010, 74, 32-41.	2.7	54

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55	Relevance of a crenarchaeotal subcluster related to <i>Candidatus</i> Nitrosopumilus maritimus to ammonia oxidation in the suboxic zone of the central Baltic Sea. ISME Journal, 2010, 4, 1496-1508.	9.8	110
56	Roseibaca ekhonensis gen. nov., sp. nov., an alkalitolerant and aerobic bacteriochlorophyll a-producing alphaproteobacterium from hypersaline Ekho Lake. International Journal of Systematic and Evolutionary Microbiology, 2009, 59, 1935-1940.	1.7	49
57	¹³Câ€isotope analyses reveal that chemolithoautotrophic<i>Gamma</i>â€• and<i>Epsilonproteobacteria</i>feed a microbial food web in a pelagic redoxcline of the central Baltic Sea. Environmental Microbiology, 2009, 11, 326-337.	3.8	98
58	<i>Epsilonproteobacteria</i> Represent the Major Portion of Chemoautotrophic Bacteria in Sulfidic Waters of Pelagic Redoxclines of the Baltic and Black Seas. Applied and Environmental Microbiology, 2008, 74, 7546-7551.	3.1	131
59	High abundance and dark CO₂ fixation of chemolithoautotrophic prokaryotes in anoxic waters of the Baltic Sea. Limnology and Oceanography, 2008, 53, 14-22.	3.1	65
60	Quantitative Distributions of <i>Epsilonproteobacteria</i> and a <i>Sulfurimonas</i> Subgroup in Pelagic Redoxclines of the Central Baltic Sea. Applied and Environmental Microbiology, 2007, 73, 7155-7161.	3.1	58
61	Traditional cattle manure application determines abundance, diversity and activity of methanogenic Archaea in arable European soil. Environmental Microbiology, 2007, 9, 612-624.	3.8	66
62	Identification of a Thiomicrospira denitrificans -Like Epsilonproteobacterium as a Catalyst for Autotrophic Denitrification in the Central Baltic Sea. Applied and Environmental Microbiology, 2006, 72, 1364-1372.	3.1	91
63	Retrieval of nearly complete 16S rRNA gene sequences from environmental DNA following 16S rRNA-based community fingerprinting. Environmental Microbiology, 2005, 7, 670-675.	3.8	19
64	Impact of Different In Vitro Electron Donor/Acceptor Conditions on Potential Chemolithoautotrophic Communities from Marine Pelagic Redoxclines. Applied and Environmental Microbiology, 2005, 71, 6664-6672.	3.1	73
65	Roseisalinus antarcticus gen. nov., sp. nov., a novel aerobic bacteriochlorophyll a-producing Î±-proteobacterium isolated from hypersaline Ekho Lake, Antarctica. International Journal of Systematic and Evolutionary Microbiology, 2005, 55, 41-47.	1.7	56
66	Development and Application of a Real-Time PCR Approach for Quantification of Uncultured Bacteria in the Central Baltic Sea. Applied and Environmental Microbiology, 2004, 70, 4971-4979.	3.1	52
67	Roseovarius tolerans gen. nov., sp. nov., a budding bacterium with variable bacteriochlorophyll a production from hypersaline Ekho Lake. International Journal of Systematic and Evolutionary Microbiology, 1999, 49, 137-147.	1.7	194