Sten Littmann

List of Publications by Year in Descending Order

40 papers	1,304 citations	21 h-index	36 g-index
43 ext. papers	1,836 ext. citations	11.7 avg, IF	4.34 L-index

#	Paper	IF	Citations
40	and " Velamenicoccus archaeovorus".. *Applied and Environmental Microbiology*, **2022**, e0240721	4.8	0
39	Terrestrial-type nitrogen-fixing symbiosis between seagrass and a marine bacterium. *Nature*, **2021**, 600, 105-109	50.4	1
38	Crystalline iron oxides stimulate methanogenic benzoate degradation in marine sediment-derived enrichment cultures. *ISME Journal*, **2021**, 15, 965-980	11.9	9
37	Nitrate respiration and diel migration patterns of diatoms are linked in sediments underneath a microbial mat. *Environmental Microbiology*, **2021**, 23, 1422-1435	5.2	4
36	Assigning Function to Phylogeny: FISH-nanoSIMS. *Methods in Molecular Biology*, **2021**, 2246, 207-224	1.4	0
35	Purple sulfur bacteria fix N via molybdenum-nitrogenase in a low molybdenum Proterozoic ocean analogue. *Nature Communications*, **2021**, 12, 4774	17.4	3
34	Niche partitioning by photosynthetic plankton as a driver of CO-fixation across the oligotrophic South Pacific Subtropical Ocean. *ISME Journal*, **2021**,	11.9	2
33	The rate and fate of N and C fixation by marine diatom-diazotroph symbioses. *ISME Journal*, **2021**,	11.9	1
32	Single cell analyses reveal contrasting life strategies of the two main nitrifiers in the ocean. *Nature Communications*, **2020**, 11, 767	17.4	29
31	The effect of sediment grain properties and porewater flow on microbial abundance and respiration in permeable sediments. *Scientific Reports*, **2020**, 10, 3573	4.9	13
30	An intracellular silver deposition method for targeted detection and chemical analysis of uncultured microorganisms. *Systematic and Applied Microbiology*, **2020**, 43, 126086	4.2	1
29	Cell Architecture of the Giant Sulfur Bacterium Achromatium oxaliferum: Extra-cytoplasmic Localization of Calcium Carbonate Bodies. *FEMS Microbiology Ecology*, **2020**, 96,	4.3	8
28	Phosphate availability affects fixed nitrogen transfer from diazotrophs to their epibionts. *ISME Journal*, **2019**, 13, 2701-2713	11.9	5
27	Direct Cell Mass Measurements Expand the Role of Small Microorganisms in Nature. *Applied and Environmental Microbiology*, **2019**, 85,	4.8	13
26	Untangling hidden nutrient dynamics: rapid ammonium cycling and single-cell ammonium assimilation in marine plankton communities. *ISME Journal*, **2019**, 13, 1960-1974	11.9	30
25	Biopearling of Interconnected Outer Membrane Vesicle Chains by a Marine Flavobacterium. *Applied and Environmental Microbiology*, **2019**, 85,	4.8	12
24	sp. nov., a Chemolithoheterotroph Isolated from Sulfide- and Organic-Rich Coastal Waters off Peru. *Applied and Environmental Microbiology*, **2019**, 85,	4.8	22

23	Cyanate and urea are substrates for nitrification by Thaumarchaeota in the marine environment. *Nature Microbiology*, **2019**, 4, 234-243	26.6	55
22	Oxygen minimum zone cryptic sulfur cycling sustained by offshore transport of key sulfur oxidizing bacteria. *Nature Communications*, **2018**, 9, 1729	17.4	51
21	Single-cell imaging of phosphorus uptake shows that key harmful algae rely on different phosphorus sources for growth. *Scientific Reports*, **2018**, 8, 17182	4.9	24
20	Syntrophic linkage between predatory Carpediemonas and specific prokaryotic populations. *ISME Journal*, **2017**, 11, 1205-1217	11.9	11
19	Crenothrix are major methane consumers in stratified lakes. *ISME Journal*, **2017**, 11, 2124-2140	11.9	87
18	Microbial formation of labile organic carbon in Antarctic glacial environments. *Nature Geoscience*, **2017**, 10, 356-359	18.3	51
17	Intense biological phosphate uptake onto particles in subeuphotic continental margin waters. *Geophysical Research Letters*, **2017**, 44, 2825-2834	4.9	4
16	Adaptability as the key to success for the ubiquitous marine nitrite oxidizer. *Science Advances*, **2017**, 3, e1700807	14.3	49
15	Cell-to-cell variation and specialization in sugar metabolism in clonal bacterial populations. *PLoS Genetics*, **2017**, 13, e1007122	6	33
14	Chemical microenvironments and single-cell carbon and nitrogen uptake in field-collected colonies of Trichodesmium under different pCO. *ISME Journal*, **2017**, 11, 1305-1317	11.9	32
13	Cell-specific nitrogen- and carbon-fixation of cyanobacteria in a temperate marine system (Baltic Sea). *Environmental Microbiology*, **2016**, 18, 4596-4609	5.2	45
12	The small unicellular diazotrophic symbiont, UCYN-A, is a key player in the marine nitrogen cycle. *Nature Microbiology*, **2016**, 1, 16163	26.6	112
11	Phenotypic heterogeneity driven by nutrient limitation promotes growth in fluctuating environments. *Nature Microbiology*, **2016**, 1, 16055	26.6	95
10	Environmental Breviatea harbour mutualistic Arcobacter epibionts. *Nature*, **2016**, 534, 254-8	50.4	47
9	N2-fixation, ammonium release and N-transfer to the microbial and classical food web within a plankton community. *ISME Journal*, **2016**, 10, 450-9	11.9	62
8	Size and Carbon Content of Sub-seafloor Microbial Cells at Landsort Deep, Baltic Sea. *Frontiers in Microbiology*, **2016**, 7, 1375	5.7	20
7	Aerobic gammaproteobacterial methanotrophs mitigate methane emissions from oxic and anoxic lake waters. *Limnology and Oceanography*, **2016**, 61, S101-S118	4.8	80
6	Use of carbon monoxide and hydrogen by a bacteria-animal symbiosis from seagrass sediments. *Environmental Microbiology*, **2015**, 17, 5023-35	5.2	24

5	Light-Dependent Aerobic Methane Oxidation Reduces Methane Emissions from Seasonally Stratified Lakes. *PLoS ONE*, **2015**, 10, e0132574	3.7	88
4	Methane oxidation coupled to oxygenic photosynthesis in anoxic waters. *ISME Journal*, **2015**, 9, 1991-2002	11.9	99
3	Identification and activity of acetate-assimilating bacteria in diffuse fluids venting from two deep-sea hydrothermal systems. *FEMS Microbiology Ecology*, **2014**, 90, 731-46	4.3	16
2	Epifluorescence, SEM, TEM and nanoSIMS image analysis of the cold phenotype of Clostridium psychrophilum at subzero temperatures. *FEMS Microbiology Ecology*, **2014**, 90, 869-82	4.3	12
1	Responses of the coastal bacterial community to viral infection of the algae Phaeocystis globosa. *ISME Journal*, **2014**, 8, 212-25	11.9	52