

# Sten Littmann

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	The small unicellular diazotrophic symbiont, UCYN-A, is a key player in the marine nitrogen cycle. <i>Nature Microbiology</i> , <b>2016</b> , 1, 16163	26.6	112
39	Methane oxidation coupled to oxygenic photosynthesis in anoxic waters. <i>ISME Journal</i> , <b>2015</b> , 9, 1991-2002	2.9	99
38	Phenotypic heterogeneity driven by nutrient limitation promotes growth in fluctuating environments. <i>Nature Microbiology</i> , <b>2016</b> , 1, 16055	26.6	95
37	Light-Dependent Aerobic Methane Oxidation Reduces Methane Emissions from Seasonally Stratified Lakes. <i>PLoS ONE</i> , <b>2015</b> , 10, e0132574	3.7	88
36	Crenothrix are major methane consumers in stratified lakes. <i>ISME Journal</i> , <b>2017</b> , 11, 2124-2140	11.9	87
35	Aerobic gammaproteobacterial methanotrophs mitigate methane emissions from oxic and anoxic lake waters. <i>Limnology and Oceanography</i> , <b>2016</b> , 61, S101-S118	4.8	80
34	N <sub>2</sub> -fixation, ammonium release and N-transfer to the microbial and classical food web within a plankton community. <i>ISME Journal</i> , <b>2016</b> , 10, 450-9	11.9	62
33	Cyanate and urea are substrates for nitrification by Thaumarchaeota in the marine environment. <i>Nature Microbiology</i> , <b>2019</b> , 4, 234-243	26.6	55
32	Responses of the coastal bacterial community to viral infection of the algae <i>Phaeocystis globosa</i> . <i>ISME Journal</i> , <b>2014</b> , 8, 212-25	11.9	52
31	Microbial formation of labile organic carbon in Antarctic glacial environments. <i>Nature Geoscience</i> , <b>2017</b> , 10, 356-359	18.3	51
30	Oxygen minimum zone cryptic sulfur cycling sustained by offshore transport of key sulfur oxidizing bacteria. <i>Nature Communications</i> , <b>2018</b> , 9, 1729	17.4	51
29	Adaptability as the key to success for the ubiquitous marine nitrite oxidizer. <i>Science Advances</i> , <b>2017</b> , 3, e1700807	14.3	49
28	Environmental Breviatea harbour mutualistic <i>Arcobacter</i> epibionts. <i>Nature</i> , <b>2016</b> , 534, 254-8	50.4	47
27	Cell-specific nitrogen- and carbon-fixation of cyanobacteria in a temperate marine system (Baltic Sea). <i>Environmental Microbiology</i> , <b>2016</b> , 18, 4596-4609	5.2	45
26	Cell-to-cell variation and specialization in sugar metabolism in clonal bacterial populations. <i>PLoS Genetics</i> , <b>2017</b> , 13, e1007122	6	33
25	Chemical microenvironments and single-cell carbon and nitrogen uptake in field-collected colonies of <i>Trichodesmium</i> under different pCO <sub>2</sub> . <i>ISME Journal</i> , <b>2017</b> , 11, 1305-1317	11.9	32
24	Untangling hidden nutrient dynamics: rapid ammonium cycling and single-cell ammonium assimilation in marine plankton communities. <i>ISME Journal</i> , <b>2019</b> , 13, 1960-1974	11.9	30

23	Single cell analyses reveal contrasting life strategies of the two main nitrifiers in the ocean. <i>Nature Communications</i> , <b>2020</b> , 11, 767	17.4	29
22	Use of carbon monoxide and hydrogen by a bacteria-animal symbiosis from seagrass sediments. <i>Environmental Microbiology</i> , <b>2015</b> , 17, 5023-35	5.2	24
21	Single-cell imaging of phosphorus uptake shows that key harmful algae rely on different phosphorus sources for growth. <i>Scientific Reports</i> , <b>2018</b> , 8, 17182	4.9	24
20	sp. nov., a Chemolithoheterotroph Isolated from Sulfide- and Organic-Rich Coastal Waters off Peru. <i>Applied and Environmental Microbiology</i> , <b>2019</b> , 85,	4.8	22
19	Size and Carbon Content of Sub-seafloor Microbial Cells at Landsort Deep, Baltic Sea. <i>Frontiers in Microbiology</i> , <b>2016</b> , 7, 1375	5.7	20
18	Identification and activity of acetate-assimilating bacteria in diffuse fluids venting from two deep-sea hydrothermal systems. <i>FEMS Microbiology Ecology</i> , <b>2014</b> , 90, 731-46	4.3	16
17	Direct Cell Mass Measurements Expand the Role of Small Microorganisms in Nature. <i>Applied and Environmental Microbiology</i> , <b>2019</b> , 85,	4.8	13
16	The effect of sediment grain properties and porewater flow on microbial abundance and respiration in permeable sediments. <i>Scientific Reports</i> , <b>2020</b> , 10, 3573	4.9	13
15	Biopearling of Interconnected Outer Membrane Vesicle Chains by a Marine Flavobacterium. <i>Applied and Environmental Microbiology</i> , <b>2019</b> , 85,	4.8	12
14	Epifluorescence, SEM, TEM and nanoSIMS image analysis of the cold phenotype of <i>Clostridium psychrophilum</i> at subzero temperatures. <i>FEMS Microbiology Ecology</i> , <b>2014</b> , 90, 869-82	4.3	12
13	Syntrophic linkage between predatory <i>Carpodimonas</i> and specific prokaryotic populations. <i>ISME Journal</i> , <b>2017</b> , 11, 1205-1217	11.9	11
12	Crystalline iron oxides stimulate methanogenic benzoate degradation in marine sediment-derived enrichment cultures. <i>ISME Journal</i> , <b>2021</b> , 15, 965-980	11.9	9
11	Cell Architecture of the Giant Sulfur Bacterium <i>Achromatium oxaliferum</i> : Extra-cytoplasmic Localization of Calcium Carbonate Bodies. <i>FEMS Microbiology Ecology</i> , <b>2020</b> , 96,	4.3	8
10	Phosphate availability affects fixed nitrogen transfer from diazotrophs to their epibionts. <i>ISME Journal</i> , <b>2019</b> , 13, 2701-2713	11.9	5
9	Intense biological phosphate uptake onto particles in subeuphotic continental margin waters. <i>Geophysical Research Letters</i> , <b>2017</b> , 44, 2825-2834	4.9	4
8	Nitrate respiration and diel migration patterns of diatoms are linked in sediments underneath a microbial mat. <i>Environmental Microbiology</i> , <b>2021</b> , 23, 1422-1435	5.2	4
7	Purple sulfur bacteria fix N via molybdenum-nitrogenase in a low molybdenum Proterozoic ocean analogue. <i>Nature Communications</i> , <b>2021</b> , 12, 4774	17.4	3
6	Niche partitioning by photosynthetic plankton as a driver of CO <sub>2</sub> -fixation across the oligotrophic South Pacific Subtropical Ocean. <i>ISME Journal</i> , <b>2021</b> ,	11.9	2

5	An intracellular silver deposition method for targeted detection and chemical analysis of uncultured microorganisms. <i>Systematic and Applied Microbiology</i> , <b>2020</b> , 43, 126086	4.2	1
4	Terrestrial-type nitrogen-fixing symbiosis between seagrass and a marine bacterium. <i>Nature</i> , <b>2021</b> , 600, 105-109	50.4	1
3	The rate and fate of N and C fixation by marine diatom-diazotroph symbioses. <i>ISME Journal</i> , <b>2021</b> ,	11.9	1
2	Assigning Function to Phylogeny: FISH-nanoSIMS. <i>Methods in Molecular Biology</i> , <b>2021</b> , 2246, 207-224	1.4	0
1	and "Velamenicoccus archaeovorus".. <i>Applied and Environmental Microbiology</i> , <b>2022</b> , e0240721	4.8	0