

# Sten Littmann

## List of Publications by Year in descending order

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Version: 2024-02-01

41  
papers

2,161  
citations

279798

23  
h-index

276875

41  
g-index

43  
all docs

43  
docs citations

43  
times ranked

3043  
citing authors

#	ARTICLE	IF	CITATIONS
1	The small unicellular diazotrophic symbiont, UCYN-A, is a key player in the marine nitrogen cycle. <i>Nature Microbiology</i> , 2016, 1, 16163.	13.3	194
2	Phenotypic heterogeneity driven by nutrient limitation promotes growth in fluctuating environments. <i>Nature Microbiology</i> , 2016, 1, 16055.	13.3	154
3	<i>Crenothrix</i> are major methane consumers in stratified lakes. <i>ISME Journal</i> , 2017, 11, 2124-2140.	9.8	146
4	Methane oxidation coupled to oxygenic photosynthesis in anoxic waters. <i>ISME Journal</i> , 2015, 9, 1991-2002.	9.8	135
5	Light-Dependent Aerobic Methane Oxidation Reduces Methane Emissions from Seasonally Stratified Lakes. <i>PLoS ONE</i> , 2015, 10, e0132574.	2.5	120
6	Aerobic gammaproteobacterial methanotrophs mitigate methane emissions from oxic and anoxic lake waters. <i>Limnology and Oceanography</i> , 2016, 61, S101.	3.1	119
7	Cyanate and urea are substrates for nitrification by Thaumarchaeota in the marine environment. <i>Nature Microbiology</i> , 2019, 4, 234-243.	13.3	103
8	Oxygen minimum zone cryptic sulfur cycling sustained by offshore transport of key sulfur oxidizing bacteria. <i>Nature Communications</i> , 2018, 9, 1729.	12.8	93
9	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> , 2016, 10, 450-459.	9.8	87
10	Adaptability as the key to success for the ubiquitous marine nitrite oxidizer <i>Nitrococcus</i> . <i>Science Advances</i> , 2017, 3, e1700807.	10.3	74
11	Microbial formation of labile organic carbon in Antarctic glacial environments. <i>Nature Geoscience</i> , 2017, 10, 356-359.	12.9	70
12	Responses of the coastal bacterial community to viral infection of the algae <i>Phaeocystis globosa</i> . <i>ISME Journal</i> , 2014, 8, 212-225.	9.8	68
13	Environmental Breviatea harbour mutualistic <i>Arcobacter</i> epibionts. <i>Nature</i> , 2016, 534, 254-258.	27.8	68
14	Single cell analyses reveal contrasting life strategies of the two main nitrifiers in the ocean. <i>Nature Communications</i> , 2020, 11, 767.	12.8	67
15	Cell-specific nitrogen and carbon fixation of cyanobacteria in a temperate marine system (Baltic Sea). <i>Environmental Microbiology</i> , 2016, 18, 4596-4609.	3.8	61
16	Cell-to-cell variation and specialization in sugar metabolism in clonal bacterial populations. <i>PLoS Genetics</i> , 2017, 13, e1007122.	3.5	58
17	Untangling hidden nutrient dynamics: rapid ammonium cycling and single-cell ammonium assimilation in marine plankton communities. <i>ISME Journal</i> , 2019, 13, 1960-1974.	9.8	49
18	Terrestrial-type nitrogen-fixing symbiosis between seagrass and a marine bacterium. <i>Nature</i> , 2021, 600, 105-109.	27.8	48

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19	Chemical microenvironments and single-cell carbon and nitrogen uptake in field-collected colonies of <i>Trichodesmium</i> under different pCO <sub>2</sub> . ISME Journal, 2017, 11, 1305-1317.	9.8	47
20	Single-cell imaging of phosphorus uptake shows that key harmful algae rely on different phosphorus sources for growth. Scientific Reports, 2018, 8, 17182.	3.3	44
21	Use of carbon monoxide and hydrogen by a bacteria–animal symbiosis from seagrass sediments. Environmental Microbiology, 2015, 17, 5023-5035.	3.8	37
22	<i>Arcobacter peruensis</i> sp. nov., a Chemolithoheterotroph Isolated from Sulfide- and Organic-Rich Coastal Waters off Peru. Applied and Environmental Microbiology, 2019, 85, .	3.1	36
23	The effect of sediment grain properties and porewater flow on microbial abundance and respiration in permeable sediments. Scientific Reports, 2020, 10, 3573.	3.3	27
24	Crystalline iron oxides stimulate methanogenic benzoate degradation in marine sediment-derived enrichment cultures. ISME Journal, 2021, 15, 965-980.	9.8	25
25	Size and Carbon Content of Sub-seafloor Microbial Cells at Landsort Deep, Baltic Sea. Frontiers in Microbiology, 2016, 7, 1375.	3.5	24
26	Purple sulfur bacteria fix N <sub>2</sub> via molybdenum-nitrogenase in a low molybdenum Proterozoic ocean analogue. Nature Communications, 2021, 12, 4774.	12.8	24
27	Direct Cell Mass Measurements Expand the Role of Small Microorganisms in Nature. Applied and Environmental Microbiology, 2019, 85, .	3.1	22
28	Identification and activity of acetate-assimilating bacteria in diffuse fluids venting from two deep-sea hydrothermal systems. FEMS Microbiology Ecology, 2014, 90, 731-746.	2.7	21
29	Syntrophic linkage between predatory <i>Carpodomonas</i> and specific prokaryotic populations. ISME Journal, 2017, 11, 1205-1217.	9.8	21
30	Bioppearling of Interconnected Outer Membrane Vesicle Chains by a Marine Flavobacterium. Applied and Environmental Microbiology, 2019, 85, .	3.1	20
31	Epifluorescence, SEM, TEM and nanoSIMS image analysis of the cold phenotype of <i>Clostridium psychrophilum</i> at subzero temperatures. FEMS Microbiology Ecology, 2014, 90, 869-882.	2.7	14
32	Phosphate availability affects fixed nitrogen transfer from diazotrophs to their epibionts. ISME Journal, 2019, 13, 2701-2713.	9.8	13
33	Nitrate respiration and diel migration patterns of diatoms are linked in sediments underneath a microbial mat. Environmental Microbiology, 2021, 23, 1422-1435.	3.8	12
34	Cell Architecture of the Giant Sulfur Bacterium <i>Achromatium oxaliferum</i> : Extra-cytoplasmic Localization of Calcium Carbonate Bodies. FEMS Microbiology Ecology, 2020, 96, .	2.7	11
35	The rate and fate of N <sub>2</sub> and C fixation by marine diatom-diazotroph symbioses. ISME Journal, 2022, 16, 477-487.	9.8	11
36	Niche partitioning by photosynthetic plankton as a driver of CO <sub>2</sub> -fixation across the oligotrophic South Pacific Subtropical Ocean. ISME Journal, 2022, 16, 465-476.	9.8	10

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37	Quantification of archaea-driven freshwater nitrification from single cell to ecosystem levels. ISME Journal, 2022, 16, 1647-1656.	9.8	10
38	<i>Methanosaeta</i> and <i>Candidatus</i> Velamenicoccus archaeovorans. Applied and Environmental Microbiology, 2022, 88, e0240721.	3.1	7
39	Intense biological phosphate uptake onto particles in subeuphotic continental margin waters. Geophysical Research Letters, 2017, 44, 2825-2834.	4.0	5
40	Assigning Function to Phylogeny: FISH-nanoSIMS. Methods in Molecular Biology, 2021, 2246, 207-224.	0.9	4
41	An intracellular silver deposition method for targeted detection and chemical analysis of uncultured microorganisms. Systematic and Applied Microbiology, 2020, 43, 126086.	2.8	2