

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 | Niche partitioning by photosynthetic plankton as a driver of CO ₂ -fixation across the oligotrophic South Pacific Subtropical Ocean. <i>ISME Journal</i> , 2022, 16, 465-476. | 9.8 | 10 |
| 2 | The rate and fate of N ₂ and C fixation by marine diatom-diazotroph symbioses. <i>ISME Journal</i> , 2022, 16, 477-487. | 9.8 | 11 |
| 3 | <i>Methanosaeta</i> and <i>Candidatus Velamenicoccus archaeovorus</i> . <i>Applied and Environmental Microbiology</i> , 2022, 88, e0240721. | 3.1 | 7 |
| 4 | Quantification of archaea-driven freshwater nitrification from single cell to ecosystem levels. <i>ISME Journal</i> , 2022, 16, 1647-1656. | 9.8 | 10 |
| 5 | Crystalline iron oxides stimulate methanogenic benzoate degradation in marine sediment-derived enrichment cultures. <i>ISME Journal</i> , 2021, 15, 965-980. | 9.8 | 25 |
| 6 | Nitrate respiration and diel migration patterns of diatoms are linked in sediments underneath a microbial mat. <i>Environmental Microbiology</i> , 2021, 23, 1422-1435. | 3.8 | 12 |
| 7 | Assigning Function to Phylogeny: FISH-nanoSIMS. <i>Methods in Molecular Biology</i> , 2021, 2246, 207-224. | 0.9 | 4 |
| 8 | Purple sulfur bacteria fix N ₂ via molybdenum-nitrogenase in a low molybdenum Proterozoic ocean analogue. <i>Nature Communications</i> , 2021, 12, 4774. | 12.8 | 24 |
| 9 | Terrestrial-type nitrogen-fixing symbiosis between seagrass and a marine bacterium. <i>Nature</i> , 2021, 600, 105-109. | 27.8 | 48 |
| 10 | Cell Architecture of the Giant Sulfur Bacterium <i>Achromatium oxaliferum</i> : Extra-cytoplasmic Localization of Calcium Carbonate Bodies. <i>FEMS Microbiology Ecology</i> , 2020, 96, . | 2.7 | 11 |
| 11 | 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 |
| 12 | The effect of sediment grain properties and porewater flow on microbial abundance and respiration in permeable sediments. <i>Scientific Reports</i> , 2020, 10, 3573. | 3.3 | 27 |
| 13 | An intracellular silver deposition method for targeted detection and chemical analysis of uncultured microorganisms. <i>Systematic and Applied Microbiology</i> , 2020, 43, 126086. | 2.8 | 2 |
| 14 | Biopearling of Interconnected Outer Membrane Vesicle Chains by a Marine Flavobacterium. <i>Applied and Environmental Microbiology</i> , 2019, 85, . | 3.1 | 20 |
| 15 | Phosphate availability affects fixed nitrogen transfer from diazotrophs to their epibionts. <i>ISME Journal</i> , 2019, 13, 2701-2713. | 9.8 | 13 |
| 16 | Direct Cell Mass Measurements Expand the Role of Small Microorganisms in Nature. <i>Applied and Environmental Microbiology</i> , 2019, 85, . | 3.1 | 22 |
| 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 | <i>Arcobacter peruensis</i> sp. nov., a Chemolithoheterotroph Isolated from Sulfide- and Organic-Rich Coastal Waters off Peru. <i>Applied and Environmental Microbiology</i> , 2019, 85, . | 3.1 | 36 |

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|----|--|------|-----------|
| 19 | Cyanate and urea are substrates for nitrification by Thaumarchaeota in the marine environment. <i>Nature Microbiology</i> , 2019, 4, 234-243. | 13.3 | 103 |
| 20 | Single-cell imaging of phosphorus uptake shows that key harmful algae rely on different phosphorus sources for growth. <i>Scientific Reports</i> , 2018, 8, 17182. | 3.3 | 44 |
| 21 | 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 |
| 22 | Syntrophic linkage between predatory <i>Carpodomonas</i> and specific prokaryotic populations. <i>ISME Journal</i> , 2017, 11, 1205-1217. | 9.8 | 21 |
| 23 | <i>Crenothrix</i> are major methane consumers in stratified lakes. <i>ISME Journal</i> , 2017, 11, 2124-2140. | 9.8 | 146 |
| 24 | Microbial formation of labile organic carbon in Antarctic glacial environments. <i>Nature Geoscience</i> , 2017, 10, 356-359. | 12.9 | 70 |
| 25 | Intense biological phosphate uptake onto particles in subeuphotic continental margin waters. <i>Geophysical Research Letters</i> , 2017, 44, 2825-2834. | 4.0 | 5 |
| 26 | 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 |
| 27 | Chemical microenvironments and single-cell carbon and nitrogen uptake in field-collected colonies of <i>Trichodesmium</i> under different pCO_2 . <i>ISME Journal</i> , 2017, 11, 1305-1317. | 9.8 | 47 |
| 28 | Cell-to-cell variation and specialization in sugar metabolism in clonal bacterial populations. <i>PLoS Genetics</i> , 2017, 13, e1007122. | 3.5 | 58 |
| 29 | Size and Carbon Content of Sub-seafloor Microbial Cells at Landsort Deep, Baltic Sea. <i>Frontiers in Microbiology</i> , 2016, 7, 1375. | 3.5 | 24 |
| 30 | Aerobic gammaproteobacterial methanotrophs mitigate methane emissions from oxic and anoxic lake waters. <i>Limnology and Oceanography</i> , 2016, 61, S101. | 3.1 | 119 |
| 31 | 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 |
| 32 | 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 |
| 33 | Phenotypic heterogeneity driven by nutrient limitation promotes growth in fluctuating environments. <i>Nature Microbiology</i> , 2016, 1, 16055. | 13.3 | 154 |
| 34 | Environmental Breviatea harbour mutualistic <i>Arcobacter</i> epibionts. <i>Nature</i> , 2016, 534, 254-258. | 27.8 | 68 |
| 35 | N ₂ -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 |
| 36 | Use of carbon monoxide and hydrogen by a bacterial animal symbiosis from seagrass sediments. <i>Environmental Microbiology</i> , 2015, 17, 5023-5035. | 3.8 | 37 |

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|----|--|-----|-----------|
| 37 | Light-Dependent Aerobic Methane Oxidation Reduces Methane Emissions from Seasonally Stratified Lakes. PLoS ONE, 2015, 10, e0132574. | 2.5 | 120 |
| 38 | Methane oxidation coupled to oxygenic photosynthesis in anoxic waters. ISME Journal, 2015, 9, 1991-2002. | 9.8 | 135 |
| 39 | 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 |
| 40 | 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 |
| 41 | Responses of the coastal bacterial community to viral infection of the algae <i>Phaeocystis globosa</i> . ISME Journal, 2014, 8, 212-225. | 9.8 | 68 |