

# Lucie Bittner

## List of Publications by Year in descending order

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Version: 2024-02-01

35  
papers

9,993  
citations

201674

27  
h-index

330143

37  
g-index

39  
all docs

39  
docs citations

39  
times ranked

11691  
citing authors

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | Functional trait-based approaches as a common framework for aquatic ecologists. <i>Limnology and Oceanography</i> , 2021, 66, 965-994.   | 3.1  | 99        |
| 2  | Towards omics-based predictions of planktonic functional composition from environmental data. <i>Nature Communications</i> , 2021, 12, 4361.   | 12.8 | 16        |
| 3  | A resource-frugal probabilistic dictionary and applications in bioinformatics. <i>Discrete Applied Mathematics</i> , 2020, 274, 92-102.  | 0.9  | 13        |
| 4  | Community-Level Responses to Iron Availability in Open Ocean Plankton Ecosystems. <i>Global Biogeochemical Cycles</i> , 2019, 33, 391-419.   | 4.9  | 76        |
| 5  | Mixotrophic protists display contrasted biogeographies in the global ocean. <i>ISME Journal</i> , 2019, 13, 1072-1083.   | 9.8  | 55        |
| 6  | Analysis of the genomic basis of functional diversity in dinoflagellates using a transcriptome-based sequence similarity network. <i>Molecular Ecology</i> , 2018, 27, 2365-2380.          | 3.9  | 12        |
| 7  | The epibiotic life of the cosmopolitan diatom <i>Fragilariopsis doliolus</i> on heterotrophic ciliates in the open ocean. <i>ISME Journal</i> , 2018, 12, 1094-1108.                       | 9.8  | 26        |
| 8  | Influence of diatom diversity on the ocean biological carbon pump. <i>Nature Geoscience</i> , 2018, 11, 27-37.   | 12.9 | 451       |
| 9  | Clade-specific diversification dynamics of marine diatoms since the Jurassic. <i>Nature Ecology and Evolution</i> , 2018, 2, 1715-1723.  | 7.8  | 40        |
| 10 | A de novo approach to disentangle partner identity and function in holobiont systems. <i>Microbiome</i> , 2018, 6, 105.  | 11.1 | 19        |
| 11 | A communal catalogue reveals Earth's multiscale microbial diversity. <i>Nature</i> , 2017, 551, 457-463.   | 27.8 | 1,942     |
| 12 | The evolution of diatoms and their biogeochemical functions. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2017, 372, 20160397.                          | 4.0  | 134       |
| 13 | Acclimation of a low iron adapted <i>Ostreococcus</i> strain to iron limitation through cell biomass lowering. <i>Scientific Reports</i> , 2017, 7, 327.                                   | 3.3  | 25        |
| 14 | Mare Incognitum: A Glimpse into Future Plankton Diversity and Ecology Research. <i>Frontiers in Marine Science</i> , 2017, 4, .  | 2.5  | 10        |
| 15 | Insights into global diatom distribution and diversity in the world's ocean. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E1516-25. | 7.1  | 561       |
| 16 | Benthic protists: the under-charted majority. <i>FEMS Microbiology Ecology</i> , 2016, 92, fiw120.   | 2.7  | 94        |
| 17 | Plankton networks driving carbon export in the oligotrophic ocean. <i>Nature</i> , 2016, 532, 465-470.   | 27.8 | 670       |
| 18 | Marine protist diversity in European coastal waters and sediments as revealed by high-throughput sequencing. <i>Environmental Microbiology</i> , 2015, 17, 4035-4049.                      | 3.8  | 384       |

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 19 | Determinants of community structure in the global plankton interactome. <i>Science</i> , 2015, 348, 1262073.  | 12.6 | 842       |
| 20 | Eukaryotic plankton diversity in the sunlit ocean. <i>Science</i> , 2015, 348, 1261605.   | 12.6 | 1,551     |
| 21 | Environmental characteristics of Agulhas rings affect interocean plankton transport. <i>Science</i> , 2015, 348, 1261447.   | 12.6 | 158       |
| 22 | Seasonal diversity and dynamics of haptophytes in the Sognefjord, Norway, explored by high-throughput sequencing. <i>Molecular Ecology</i> , 2015, 24, 3026-3042.   | 3.9  | 90        |
| 23 | Testing ecological theories with sequence similarity networks: marine ciliates exhibit similar geographic dispersal patterns as multicellular organisms. <i>BMC Biology</i> , 2015, 13, 16.                         | 3.8  | 42        |
| 24 | Patterns of Rare and Abundant Marine Microbial Eukaryotes. <i>Current Biology</i> , 2014, 24, 813-821.  | 3.9  | 450       |
| 25 | Diversity patterns of uncultured Haptophytes unravelled by pyrosequencing in Naples Bay. <i>Molecular Ecology</i> , 2013, 22, 87-101.   | 3.9  | 70        |
| 26 | Species Diversity, Phylogeny and Large Scale Biogeographic Patterns of the Genus <i>Padina</i> (Phaeophyceae, Dictyotales). <i>Journal of Phycology</i> , 2013, 49, 130-142.  | 2.3  | 53        |
| 27 | 454 Pyrosequencing to Describe Microbial Eukaryotic Community Composition, Diversity and Relative Abundance: A Test for Marine Haptophytes. <i>PLoS ONE</i> , 2013, 8, e74371.                                      | 2.5  | 118       |
| 28 | Effect of elevated CO <sub>2</sub> on the dynamics of particle-attached and free-living bacterioplankton communities in an Arctic fjord. <i>Biogeosciences</i> , 2013, 10, 181-191.                                 | 3.3  | 26        |
| 29 | Ocean acidification shows negligible impacts on high-latitude bacterial community structure in coastal pelagic mesocosms. <i>Biogeosciences</i> , 2013, 10, 555-566.  | 3.3  | 60        |
| 30 | The Protist Ribosomal Reference database (PR2): a catalog of unicellular eukaryote Small Sub-Unit rRNA sequences with curated taxonomy. <i>Nucleic Acids Research</i> , 2012, 41, D597-D604.                        | 14.5 | 1,463     |
| 31 | An original mode of symbiosis in open ocean plankton. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 18000-18005.  | 7.1  | 126       |
| 32 | Evolutionary history of the Corallinales (Corallinophycidae, Rhodophyta) inferred from nuclear, plastidial and mitochondrial genomes. <i>Molecular Phylogenetics and Evolution</i> , 2011, 61, 697-713.             | 2.7  | 119       |
| 33 | Some considerations for analyzing biodiversity using integrative metagenomics and gene networks. <i>Biology Direct</i> , 2010, 5, 47.   | 4.6  | 50        |
| 34 | Multigene phylogenetic analyses support recognition of the Sporolithales ord. nov.. <i>Molecular Phylogenetics and Evolution</i> , 2010, 54, 302-305.   | 2.7  | 77        |
| 35 | Molecular phylogeny of the Dictyotales and their position within the Phaeophyceae, based on nuclear, plastid and mitochondrial DNA sequence data. <i>Molecular Phylogenetics and Evolution</i> , 2008, 49, 211-226. | 2.7  | 69        |