

Gerhard J Herndl

List of Publications by Year in descending order

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238
papers

22,672
citations

9756

73
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10127

140
g-index

254
all docs

254
docs citations

254
times ranked

16196
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Microbial diversity in the deep sea and the underexplored "rare biosphere". Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 12115-12120. | 3.3 | 3,297 |
| 2 | Microbial production of recalcitrant dissolved organic matter: long-term carbon storage in the global ocean. Nature Reviews Microbiology, 2010, 8, 593-599. | 13.6 | 1,278 |
| 3 | Archaeal nitrification in the ocean. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 12317-12322. | 3.3 | 999 |
| 4 | Contribution of Archaea to Total Prokaryotic Production in the Deep Atlantic Ocean. Applied and Environmental Microbiology, 2005, 71, 2303-2309. | 1.4 | 530 |
| 5 | Potential for Chemolithoautotrophy Among Ubiquitous Bacteria Lineages in the Dark Ocean. Science, 2011, 333, 1296-1300. | 6.0 | 510 |
| 6 | Microbial oceanography of the dark ocean's pelagic realm. Limnology and Oceanography, 2009, 54, 1501-1529. | 1.6 | 437 |
| 7 | Dissolved organic carbon leaching from plastics stimulates microbial activity in the ocean. Nature Communications, 2018, 9, 1430. | 5.8 | 402 |
| 8 | Deep carbon export from a Southern Ocean iron-fertilized diatom bloom. Nature, 2012, 487, 313-319. | 13.7 | 367 |
| 9 | Optimization of Terminal-Restriction Fragment Length Polymorphism Analysis for Complex Marine Bacterioplankton Communities and Comparison with Denaturing Gradient Gel Electrophoresis. Applied and Environmental Microbiology, 1999, 65, 3518-3525. | 1.4 | 320 |
| 10 | Combining Catalyzed Reporter Deposition-Fluorescence In Situ Hybridization and Microautoradiography To Detect Substrate Utilization by Bacteria and Archaea in the Deep Ocean. Applied and Environmental Microbiology, 2004, 70, 4411-4414. | 1.4 | 316 |
| 11 | Major role of ultraviolet-B in controlling bacterioplankton growth in the surface layer of the ocean. Nature, 1993, 361, 717-719. | 13.7 | 306 |
| 12 | The microbiome of coral surface mucus has a key role in mediating holobiont health and survival upon disturbance. ISME Journal, 2016, 10, 2280-2292. | 4.4 | 280 |
| 13 | Microbial control of the dark end of the biological pump. Nature Geoscience, 2013, 6, 718-724. | 5.4 | 276 |
| 14 | Major gradients in putatively nitrifying and non-nitrifying Archaea in the deep North Atlantic. Nature, 2008, 456, 788-791. | 13.7 | 259 |
| 15 | Water mass-specificity of bacterial communities in the North Atlantic revealed by massively parallel sequencing. Molecular Ecology, 2011, 20, 258-274. | 2.0 | 243 |
| 16 | Dilution limits dissolved organic carbon utilization in the deep ocean. Science, 2015, 348, 331-333. | 6.0 | 230 |
| 17 | Major role of nitrite-oxidizing bacteria in dark ocean carbon fixation. Science, 2017, 358, 1046-1051. | 6.0 | 229 |
| 18 | Thick-shelled, grazer-protected diatoms decouple ocean carbon and silicon cycles in the iron-limited Antarctic Circumpolar Current. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 20633-20638. | 3.3 | 216 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Drivers shaping the diversity and biogeography of total and active bacterial communities in the South China Sea. <i>Molecular Ecology</i> , 2014, 23, 2260-2274. | 2.0 | 194 |
| 20 | The composition of bacterial communities associated with plastic biofilms differs between different polymers and stages of biofilm succession. <i>PLoS ONE</i> , 2019, 14, e0217165. | 1.1 | 190 |
| 21 | Extracellular enzymatic activity and secondary production in free-living and marine-snow-associated bacteria. <i>Marine Biology</i> , 1992, 113, 341-347. | 0.7 | 187 |
| 22 | High phylogenetic diversity in a marine-snow-associated bacterial assemblage. <i>Aquatic Microbial Ecology</i> , 1998, 14, 261-269. | 0.9 | 172 |
| 23 | Horizontal and vertical complexity of attached and free-living bacteria of the eastern Mediterranean Sea, determined by 16S rDNA and 16S rRNA fingerprints. <i>Limnology and Oceanography</i> , 2001, 46, 95-107. | 1.6 | 172 |
| 24 | Variations in spatial and temporal distribution of Archaea in the North Sea in relation to environmental variables. <i>FEMS Microbiology Ecology</i> , 2007, 62, 242-257. | 1.3 | 170 |
| 25 | Contrasting effects of solar radiation on dissolved organic matter and its bioavailability to marine bacterioplankton. <i>Limnology and Oceanography</i> , 1999, 44, 1645-1654. | 1.6 | 169 |
| 26 | Archaeal <i>amoA</i> gene diversity points to distinct biogeography of ammonia-oxidizing <i>Crenarchaeota</i> in the ocean. <i>Environmental Microbiology</i> , 2013, 15, 1647-1658. | 1.8 | 169 |
| 27 | Eukaryotic microbes, principally fungi and labyrinthulomycetes, dominate biomass on bathypelagic marine snow. <i>ISME Journal</i> , 2017, 11, 362-373. | 4.4 | 169 |
| 28 | SAR202 Genomes from the Dark Ocean Predict Pathways for the Oxidation of Recalcitrant Dissolved Organic Matter. <i>MBio</i> , 2017, 8, . | 1.8 | 168 |
| 29 | Physiological and genomic characterization of two novel marine thaumarchaeal strains indicates niche differentiation. <i>ISME Journal</i> , 2016, 10, 1051-1063. | 4.4 | 160 |
| 30 | Prokaryotic respiration and production in the meso- and bathypelagic realm of the eastern and western North Atlantic basin. <i>Limnology and Oceanography</i> , 2006, 51, 1262-1273. | 1.6 | 154 |
| 31 | Emerging concepts on microbial processes in the bathypelagic ocean – ecology, biogeochemistry, and genomics. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2010, 57, 1519-1536. | 0.6 | 153 |
| 32 | Major contribution of autotrophy to microbial carbon cycling in the deep North Atlantic's interior. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2010, 57, 1572-1580. | 0.6 | 152 |
| 33 | Organic matter processing by microbial communities throughout the Atlantic water column as revealed by metaproteomics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E400-E408. | 3.3 | 146 |
| 34 | Viral burst size of heterotrophic prokaryotes in aquatic systems. <i>Journal of the Marine Biological Association of the United Kingdom</i> , 2006, 86, 613-621. | 0.4 | 142 |
| 35 | Archaeal uptake of enantiomeric amino acids in the meso- and bathypelagic waters of the North Atlantic. <i>Limnology and Oceanography</i> , 2006, 51, 60-69. | 1.6 | 138 |
| 36 | Allochthonous and autochthonous particulate organic matter in floodplains of the River Danube: the importance of hydrological connectivity. <i>Freshwater Biology</i> , 2003, 48, 220-232. | 1.2 | 136 |

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|----|--|-----|-----------|
| 37 | Spatial distribution of <i>Bacteria</i> and <i>Archaea</i> and <i>amoA</i> gene copy numbers throughout the water column of the Eastern Mediterranean Sea. <i>ISME Journal</i> , 2009, 3, 147-158. | 4.4 | 134 |
| 38 | A survey on bacteria inhabiting the sea surface microlayer of coastal ecosystems. <i>FEMS Microbiology Ecology</i> , 2005, 54, 269-280. | 1.3 | 133 |
| 39 | <i>Epsilonproteobacteria</i> Represent the Major Portion of Chemoautotrophic Bacteria in Sulfidic Waters of Pelagic Redoxclines of the Baltic and Black Seas. <i>Applied and Environmental Microbiology</i> , 2008, 74, 7546-7551. | 1.4 | 131 |
| 40 | Inhibitory effect of solar radiation on thymidine and leucine incorporation by freshwater and marine bacterioplankton. <i>Applied and Environmental Microbiology</i> , 1997, 63, 4178-4184. | 1.4 | 130 |
| 41 | Diel cycles in viral infection of bacterioplankton in the North Sea. <i>Aquatic Microbial Ecology</i> , 2004, 35, 207-216. | 0.9 | 129 |
| 42 | Distribution and activity of Bacteria and Archaea in the deep water masses of the North Atlantic. <i>Limnology and Oceanography</i> , 2006, 51, 2131-2144. | 1.6 | 127 |
| 43 | Bacterial dynamics in spring water of alpine karst aquifers indicates the presence of stable autochthonous microbial endokarst communities. <i>Environmental Microbiology</i> , 2005, 7, 1248-1259. | 1.8 | 126 |
| 44 | Microbes and the Dissipation of Energy and Respiration: From Cells to Ecosystems. <i>Oceanography</i> , 2007, 20, 89-100. | 0.5 | 125 |
| 45 | A comparison of DNA- and RNA-based clone libraries from the same marine bacterioplankton community. <i>FEMS Microbiology Ecology</i> , 2005, 51, 341-352. | 1.3 | 123 |
| 46 | Evidence of prokaryotic metabolism on suspended particulate organic matter in the dark waters of the subtropical North Atlantic. <i>Limnology and Oceanography</i> , 2009, 54, 182-193. | 1.6 | 120 |
| 47 | Prokaryotic extracellular enzymatic activity in relation to biomass production and respiration in the meso- and bathypelagic waters of the (sub)tropical Atlantic. <i>Environmental Microbiology</i> , 2009, 11, 1998-2014. | 1.8 | 117 |
| 48 | Chemotaxonomic characterisation of the thaumarchaeal lipidome. <i>Environmental Microbiology</i> , 2017, 19, 2681-2700. | 1.8 | 117 |
| 49 | Production and release of bacterial capsular material and its subsequent utilization by marine bacterioplankton. <i>Limnology and Oceanography</i> , 1998, 43, 877-884. | 1.6 | 110 |
| 50 | Dissolved organic matter and bacterial production and respiration in the sea surface microlayer of the open Atlantic and the western Mediterranean Sea. <i>Limnology and Oceanography</i> , 2008, 53, 122-136. | 1.6 | 110 |
| 51 | Relevance of a crenarchaeotal subcluster related to <i>Candidatus Nitrosopumilus maritimus</i> to ammonia oxidation in the suboxic zone of the central Baltic Sea. <i>ISME Journal</i> , 2010, 4, 1496-1508. | 4.4 | 110 |
| 52 | Organic content and bacterial metabolism in amorphous aggregations of the northern Adriatic Sea. <i>Limnology and Oceanography</i> , 1994, 39, 58-68. | 1.6 | 108 |
| 53 | Production of exopolymer particles by marine bacterioplankton under contrasting turbulence conditions. <i>Marine Ecology - Progress Series</i> , 1999, 189, 9-16. | 0.9 | 107 |
| 54 | Viral Abundance, Decay, and Diversity in the Meso- and Bathypelagic Waters of the North Atlantic. <i>Applied and Environmental Microbiology</i> , 2007, 73, 4429-4438. | 1.4 | 105 |

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|----|--|-----|-----------|
| 55 | Latitudinal trends of <i>Crenarchaeota</i> and <i>Bacteria</i> in the meso- and bathypelagic water masses of the Eastern North Atlantic. <i>Environmental Microbiology</i> , 2008, 10, 110-124. | 1.8 | 104 |
| 56 | Comparison of samplers for the biological characterization of the sea surface microlayer. <i>Limnology and Oceanography: Methods</i> , 2004, 2, 213-225. | 1.0 | 101 |
| 57 | Impact of Virioplankton on Archaeal and Bacterial Community Richness as Assessed in Seawater Batch Cultures. <i>Applied and Environmental Microbiology</i> , 2004, 70, 804-813. | 1.4 | 100 |
| 58 | Abundance and activity of <i>Chloroflexi</i> -type SAR202 bacterioplankton in the meso- and bathypelagic waters of the (sub)tropical Atlantic. <i>Environmental Microbiology</i> , 2008, 10, 1903-1911. | 1.8 | 99 |
| 59 | The Ecology of Amorphous Aggregations (Marine Snow) in the Northern Adriatic Sea. <i>Marine Ecology</i> , 1988, 9, 79-90. | 0.4 | 93 |
| 60 | Links between viruses and prokaryotes throughout the water column along a North Atlantic latitudinal transect. <i>ISME Journal</i> , 2012, 6, 1566-1577. | 4.4 | 90 |
| 61 | High dissolved extracellular enzymatic activity in the deep central Atlantic Ocean. <i>Aquatic Microbial Ecology</i> , 2010, 58, 287-302. | 0.9 | 90 |
| 62 | Formation and significance of transparent exopolymeric particles in the northern Adriatic Sea. <i>Marine Ecology - Progress Series</i> , 1995, 124, 227-236. | 0.9 | 89 |
| 63 | Differences in the optical and biological reactivity of the humic and nonhumic dissolved organic carbon component in two contrasting coastal marine environments. <i>Limnology and Oceanography</i> , 2000, 45, 1120-1129. | 1.6 | 88 |
| 64 | Microbial community structure in the sea surface microlayer at two contrasting coastal sites in the northwestern Mediterranean Sea. <i>Aquatic Microbial Ecology</i> , 2006, 42, 91-104. | 0.9 | 87 |
| 65 | Mesoscale eddies: hotspots of prokaryotic activity and differential community structure in the ocean. <i>ISME Journal</i> , 2010, 4, 975-988. | 4.4 | 86 |
| 66 | Geographic Distribution of Archaeal Ammonia Oxidizing Ecotypes in the Atlantic Ocean. <i>Frontiers in Microbiology</i> , 2016, 7, 77. | 1.5 | 84 |
| 67 | Interspecific Variability in Sensitivity to UV Radiation and Subsequent Recovery in Selected Isolates of Marine Bacteria. <i>Applied and Environmental Microbiology</i> , 2000, 66, 1468-1473. | 1.4 | 83 |
| 68 | Photo- and bioreactivity of chromophoric dissolved organic matter produced by marine bacterioplankton. <i>Aquatic Microbial Ecology</i> , 2004, 36, 239-246. | 0.9 | 82 |
| 69 | Impact of UV Radiation on Bacterioplankton Community Composition. <i>Applied and Environmental Microbiology</i> , 2001, 67, 665-672. | 1.4 | 81 |
| 70 | Towards a better understanding of microbial carbon flux in the sea*. <i>Aquatic Microbial Ecology</i> , 2008, 53, 21-38. | 0.9 | 81 |
| 71 | Role of macroscopic particles in deep-sea oxygen consumption. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 8287-8291. | 3.3 | 79 |
| 72 | Photolysis of dimethylsulfide in the northern Adriatic Sea: Dependence on substrate concentration, irradiance and DOC concentration. <i>Marine Chemistry</i> , 1998, 59, 321-331. | 0.9 | 78 |

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|----|--|------|-----------|
| 73 | Terminal-restriction fragment length polymorphism (T-RFLP) screening of a marine archaeal clone library to determine the different phylotypes. <i>Journal of Microbiological Methods</i> , 2001, 44, 159-172. | 0.7 | 78 |
| 74 | Abundance and activity of major groups of prokaryotic plankton in the coastal North Sea during spring and summer. <i>Aquatic Microbial Ecology</i> , 2006, 45, 237-246. | 0.9 | 77 |
| 75 | Response of bacterioplankton to iron fertilization in the Southern Ocean. <i>Limnology and Oceanography</i> , 2004, 49, 799-808. | 1.6 | 76 |
| 76 | Resolving the abundance and air-sea fluxes of airborne microorganisms in the North Atlantic Ocean. <i>Frontiers in Microbiology</i> , 2014, 5, 557. | 1.5 | 76 |
| 77 | Microbial activities and the transformation of organic matter within mucilaginous material. <i>Science of the Total Environment</i> , 1995, 165, 33-42. | 3.9 | 75 |
| 78 | Microheterotrophic utilization of mucus released by the Mediterranean coral <i>Cladocora cespitosa</i> . <i>Marine Biology</i> , 1986, 90, 363-369. | 0.7 | 74 |
| 79 | Relationship between Bacterioplankton Richness, Respiration, and Production in the Southern North Sea. <i>Applied and Environmental Microbiology</i> , 2005, 71, 2260-2266. | 1.4 | 73 |
| 80 | The microbial carbon pump and the oceanic recalcitrant dissolved organic matter pool. <i>Nature Reviews Microbiology</i> , 2011, 9, 555-555. | 13.6 | 73 |
| 81 | Seasonal dynamics of bacterial growth efficiencies in relation to phytoplankton in the southern North Sea. <i>Aquatic Microbial Ecology</i> , 2005, 39, 7-16. | 0.9 | 73 |
| 82 | Changes in bacterial β -glucosidase diversity during a coastal phytoplankton bloom. <i>Limnology and Oceanography</i> , 2002, 47, 594-599. | 1.6 | 72 |
| 83 | Nitrifier adaptation to low energy flux controls inventory of reduced nitrogen in the dark ocean. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 4823-4830. | 3.3 | 72 |
| 84 | Zooplankton activity fueling the microbial loop: Differential growth response of bacteria from oligotrophic and eutrophic waters. <i>Limnology and Oceanography</i> , 1992, 37, 1087-1092. | 1.6 | 71 |
| 85 | Enhanced heterotrophic activity in the surface microlayer of the Mediterranean Sea. <i>Aquatic Microbial Ecology</i> , 2005, 39, 293-302. | 0.9 | 71 |
| 86 | Development and deployment of a point-source digital inline holographic microscope for the study of plankton and particles to a depth of 6000 m. <i>Limnology and Oceanography: Methods</i> , 2013, 11, 28-40. | 1.0 | 71 |
| 87 | Ammonia-oxidizing archaea release a suite of organic compounds potentially fueling prokaryotic heterotrophy in the ocean. <i>Environmental Microbiology</i> , 2019, 21, 4062-4075. | 1.8 | 71 |
| 88 | Complexity of Bacterial Communities in a River-Floodplain System (Danube, Austria). <i>Applied and Environmental Microbiology</i> , 2005, 71, 609-620. | 1.4 | 70 |
| 89 | Diel periodicity of bacterioplankton in the euphotic zone of the subtropical Atlantic Ocean. <i>Marine Ecology - Progress Series</i> , 2000, 201, 13-25. | 0.9 | 70 |
| 90 | Ultraviolet-B radiation and bacterial metabolism in coastal waters. <i>Aquatic Microbial Ecology</i> , 1995, 9, 111-116. | 0.9 | 68 |

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|-----|--|-----|-----------|
| 91 | Spatial and diurnal dynamics of dissolved organic matter (DOM) fluorescence and H ₂ O ₂ and the photochemical oxygen demand of surface water DOM across the subtropical Atlantic Ocean. <i>Limnology and Oceanography</i> , 2001, 46, 632-643. | 1.6 | 68 |
| 92 | Quantifying Substrate Uptake by Individual Cells of Marine Bacterioplankton by Catalyzed Reporter Deposition Fluorescence In Situ Hybridization Combined with Microautoradiography. <i>Applied and Environmental Microbiology</i> , 2006, 72, 7022-7028. | 1.4 | 64 |
| 93 | Significance of non-sinking particulate organic carbon and dark CO ₂ fixation to heterotrophic carbon demand in the mesopelagic northeast Atlantic. <i>Geophysical Research Letters</i> , 2010, 37, . | 1.5 | 64 |
| 94 | Nitrosopumilus adriaticus sp. nov. and Nitrosopumilus piranensis sp. nov., two ammonia-oxidizing archaea from the Adriatic Sea and members of the class Nitrososphaeria. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2019, 69, 1892-1902. | 0.8 | 64 |
| 95 | Strong coast-ocean and surface-depth gradients in prokaryotic assemblage structure and activity in a coastal transition zone region. <i>Aquatic Microbial Ecology</i> , 2007, 50, 63-74. | 0.9 | 64 |
| 96 | Major shift in bacterioplankton utilization of enantiomeric amino acids between surfacewaters and the ocean's interior. <i>Limnology and Oceanography</i> , 2003, 48, 755-763. | 1.6 | 63 |
| 97 | Linking extracellular enzymes to phylogeny indicates a predominantly particle-associated lifestyle of deep-sea prokaryotes. <i>Science Advances</i> , 2020, 6, eaaz4354. | 4.7 | 63 |
| 98 | High atmosphere-ocean exchange of organic carbon in the NE subtropical Atlantic. <i>Geophysical Research Letters</i> , 2005, 32, . | 1.5 | 60 |
| 99 | Viral and Flagellate Control of Prokaryotic Production and Community Structure in Offshore Mediterranean Waters. <i>Applied and Environmental Microbiology</i> , 2009, 75, 4801-4812. | 1.4 | 60 |
| 100 | Bacterial activity along a trophic gradient. <i>Microbial Ecology</i> , 1992, 24, 243-257. | 1.4 | 59 |
| 101 | Taurine Is a Major Carbon and Energy Source for Marine Prokaryotes in the North Atlantic Ocean off the Iberian Peninsula. <i>Microbial Ecology</i> , 2019, 78, 299-312. | 1.4 | 59 |
| 102 | Ultrastructure of marine snow. I. Transmission electron microscopy methodology. <i>Marine Ecology - Progress Series</i> , 1996, 135, 289-298. | 0.9 | 59 |
| 103 | Connectivity between surface and deep waters determines prokaryotic diversity in the North Atlantic Deep Water. <i>Environmental Microbiology</i> , 2016, 18, 2052-2063. | 1.8 | 58 |
| 104 | Dragon kings of the deep sea: marine particles deviate markedly from the common number-size spectrum. <i>Scientific Reports</i> , 2016, 6, 22633. | 1.6 | 58 |
| 105 | Metagenomic insights into zooplankton-associated bacterial communities. <i>Environmental Microbiology</i> , 2018, 20, 492-505. | 1.8 | 57 |
| 106 | Proteomic Response of Three Marine Ammonia-Oxidizing Archaea to Hydrogen Peroxide and Their Metabolic Interactions with a Heterotrophic Alphaproteobacterium. <i>MSystems</i> , 2019, 4, . | 1.7 | 57 |
| 107 | Synechococcus and Prochlorococcus cell death induced by UV radiation and the penetration of lethal UVR in the Mediterranean Sea. <i>Marine Ecology - Progress Series</i> , 2010, 399, 27-37. | 0.9 | 57 |
| 108 | Heterotrophic prokaryotic production in ultraoligotrophic alpine karst aquifers and ecological implications. <i>FEMS Microbiology Ecology</i> , 2009, 68, 287-299. | 1.3 | 55 |

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|-----|---|-----|-----------|
| 109 | Ectoenzymatic Activity and Uptake of Monomers in Marine Bacterioplankton Described by a Biphasic Kinetic Model. <i>Microbial Ecology</i> , 1999, 37, 36-48. | 1.4 | 54 |
| 110 | Conservation of dissolved organic matter molecular composition during mixing of the deep water masses of the northeast Atlantic Ocean. <i>Marine Chemistry</i> , 2015, 177, 288-297. | 0.9 | 51 |
| 111 | Deposit Feeding and Sediment:. <i>Marine Ecology</i> , 1991, 12, 163-174. | 0.4 | 49 |
| 112 | Role of ultraviolet-B radiation on photochemical and microbial oxygen consumption in a humic-rich shallow lake. <i>Limnology and Oceanography</i> , 1997, 42, 950-960. | 1.6 | 49 |
| 113 | Biogeochemical relationships between ultrafiltered dissolved organic matter and picoplankton activity in the Eastern Mediterranean Sea. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2010, 57, 1460-1477. | 0.6 | 48 |
| 114 | Deep-sea bacterial communities in sediments and guts of deposit-feeding holothurians in Portuguese canyons (NE Atlantic). <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2009, 56, 1834-1843. | 0.6 | 47 |
| 115 | Links between viral and prokaryotic communities throughout the water column in the (sub)tropical Atlantic Ocean. <i>ISME Journal</i> , 2010, 4, 1431-1442. | 4.4 | 47 |
| 116 | Prokaryotic Responses to Ammonium and Organic Carbon Reveal Alternative CO ₂ Fixation Pathways and Importance of Alkaline Phosphatase in the Mesopelagic North Atlantic. <i>Frontiers in Microbiology</i> , 2016, 7, 1670. | 1.5 | 47 |
| 117 | Ultrastructure of marine snow. II. Microbiological considerations. <i>Marine Ecology - Progress Series</i> , 1996, 135, 299-308. | 0.9 | 47 |
| 118 | Extracting DNA from ocean microplastics: a method comparison study. <i>Analytical Methods</i> , 2017, 9, 1521-1526. | 1.3 | 46 |
| 119 | Bacterial Versus Archaeal Origin of Extracellular Enzymatic Activity in the Northeast Atlantic Deep Waters. <i>Microbial Ecology</i> , 2013, 65, 277-288. | 1.4 | 45 |
| 120 | Contribution of Crenarchaeota and Euryarchaeota to the prokaryotic plankton in the coastal northwestern Black Sea. <i>Journal of Plankton Research</i> , 2007, 29, 699-706. | 0.8 | 44 |
| 121 | Crustacean zooplankton release copious amounts of dissolved organic matter as taurine in the ocean. <i>Limnology and Oceanography</i> , 2017, 62, 2745-2758. | 1.6 | 44 |
| 122 | Niche Differentiation of Aerobic and Anaerobic Ammonia Oxidizers in a High Latitude Deep Oxygen Minimum Zone. <i>Frontiers in Microbiology</i> , 2019, 10, 2141. | 1.5 | 44 |
| 123 | Regulation of aquatic microbial processes: the "microbial loop"™ of the sunlit surface waters and the dark ocean dissected. <i>Aquatic Microbial Ecology</i> , 2008, 53, 59-68. | 0.9 | 44 |
| 124 | Production and degradation of fluorescent dissolved organic matter in surface waters of the eastern north Atlantic ocean. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2015, 96, 28-37. | 0.6 | 43 |
| 125 | Contribution of <i>Crenarchaeota</i> and <i>Bacteria</i> to autotrophy in the North Atlantic interior. <i>Environmental Microbiology</i> , 2011, 13, 1524-1533. | 1.8 | 42 |
| 126 | Comparison of Deep-Water Viromes from the Atlantic Ocean and the Mediterranean Sea. <i>PLoS ONE</i> , 2014, 9, e100600. | 1.1 | 42 |

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|-----|---|-----|-----------|
| 127 | Diversity of Archaea and detection of crenarchaeotal amoA genes in the rivers Rhine and T t. Aquatic Microbial Ecology, 2009, 55, 189-201. | 0.9 | 42 |
| 128 | Linkage between copepods and bacteria in the North Atlantic Ocean. Aquatic Microbial Ecology, 2014, 72, 215-225. | 0.9 | 41 |
| 129 | Seasonal variation in marine-snow-associated and ambient-water prokaryotic communities in the northern Adriatic Sea. Aquatic Microbial Ecology, 2014, 73, 211-224. | 0.9 | 41 |
| 130 | Global Structuring of Phylogenetic and Functional Diversity of Pelagic Fungi by Depth and Temperature. Frontiers in Marine Science, 2019, 6, . | 1.2 | 39 |
| 131 | Jellyfish-Associated Microbiome in the Marine Environment: Exploring Its Biotechnological Potential. Marine Drugs, 2019, 17, 94. | 2.2 | 39 |
| 132 | Role of mesoscale cyclonic eddies in the distribution and activity of Archaea and Bacteria in the South China Sea. Aquatic Microbial Ecology, 2009, 56, 65-79. | 0.9 | 39 |
| 133 | Prokaryotic carbon utilization in the dark ocean: growth efficiency, leucine-to-carbon conversion factors, and their relation. Aquatic Microbial Ecology, 2010, 60, 227-232. | 0.9 | 39 |
| 134 | Large-scale distribution of microbial and viral populations in the South Atlantic Ocean. Environmental Microbiology Reports, 2016, 8, 305-315. | 1.0 | 38 |
| 135 | Linking bacterial richness with viral abundance and prokaryotic activity. Limnology and Oceanography, 2005, 50, 968-977. | 1.6 | 37 |
| 136 | Prokaryotic community analysis with CARD-FISH in comparison with FISH in ultra-oligotrophic ground- and drinking water. Journal of Applied Microbiology, 2007, 103, 871-881. | 1.4 | 37 |
| 137 | Changes in viral and bacterial communities during the ice-melting season in the coastal Arctic (Kongsfjorden, Ny- lesund). Environmental Microbiology, 2011, 13, 1827-1841. | 1.8 | 37 |
| 138 | Depth Dependent Relationships between Temperature and Ocean Heterotrophic Prokaryotic Production. Frontiers in Marine Science, 2016, 3, . | 1.2 | 37 |
| 139 | Correcting a major error in assessing organic carbon pollution in natural waters. Science Advances, 2021, 7, . | 4.7 | 37 |
| 140 | Reviews and syntheses: Heterotrophic fixation of inorganic carbon – significant but invisible flux in environmental carbon cycling. Biogeosciences, 2021, 18, 3689-3700. | 1.3 | 37 |
| 141 | Spatial patterns of bacterial abundance, activity and community composition in relation to water masses in the eastern Mediterranean Sea. Aquatic Microbial Ecology, 2010, 59, 185-195. | 0.9 | 36 |
| 142 | Ideas and perspectives: Is dark carbon fixation relevant for oceanic primary production estimates?. Biogeosciences, 2019, 16, 3793-3799. | 1.3 | 36 |
| 143 | Dynamics and diversity of newly produced virioplankton in the North Sea. ISME Journal, 2008, 2, 924-936. | 4.4 | 35 |
| 144 | Mesoscale variability modulates seasonal changes in the trophic structure of nano- and picoplankton communities across the NW Africa-Canary Islands transition zone. Progress in Oceanography, 2009, 83, 180-188. | 1.5 | 35 |

| # | ARTICLE | IF | CITATIONS |
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