

Gerhard J Herndl

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238
papers

16,456
citations

64
h-index

122
g-index

254
ext. papers

19,925
ext. citations

5.9
avg. IF

6.6
L-index

#	Paper	IF	Citations
238	Microbial diversity in the deep sea and the underexplored "rare biosphere". <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 12115-20	11.5	2773
237	Archaeal nitrification in the ocean. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 12317-22	11.5	872
236	Microbial production of recalcitrant dissolved organic matter: long-term carbon storage in the global ocean. <i>Nature Reviews Microbiology</i> , 2010 , 8, 593-9	22.2	849
235	Contribution of Archaea to total prokaryotic production in the deep Atlantic Ocean. <i>Applied and Environmental Microbiology</i> , 2005 , 71, 2303-9	4.8	445
234	Potential for chemolithoautotrophy among ubiquitous bacteria lineages in the dark ocean. <i>Science</i> , 2011 , 333, 1296-300	33.3	395
233	Microbial oceanography of the dark ocean's pelagic realm. <i>Limnology and Oceanography</i> , 2009 , 54, 1501-1529	4.8	293
232	Deep carbon export from a Southern Ocean iron-fertilized diatom bloom. <i>Nature</i> , 2012 , 487, 313-9	50.4	280
231	Optimization of terminal-restriction fragment length polymorphism analysis for complex marine bacterioplankton communities and comparison with denaturing gradient gel electrophoresis. <i>Applied and Environmental Microbiology</i> , 1999 , 65, 3518-25	4.8	280
230	Combining catalyzed reporter deposition-fluorescence in situ hybridization and microautoradiography to detect substrate utilization by bacteria and Archaea in the deep ocean. <i>Applied and Environmental Microbiology</i> , 2004 , 70, 4411-4	4.8	258
229	Major role of ultraviolet-B in controlling bacterioplankton growth in the surface layer of the ocean. <i>Nature</i> , 1993 , 361, 717-719	50.4	252
228	Major gradients in putatively nitrifying and non-nitrifying Archaea in the deep North Atlantic. <i>Nature</i> , 2008 , 456, 788-91	50.4	213
227	Dissolved organic carbon leaching from plastics stimulates microbial activity in the ocean. <i>Nature Communications</i> , 2018 , 9, 1430	17.4	198
226	Microbial control of the dark end of the biological pump. <i>Nature Geoscience</i> , 2013 , 6, 718-724	18.3	183
225	The microbiome of coral surface mucus has a key role in mediating holobiont health and survival upon disturbance. <i>ISME Journal</i> , 2016 , 10, 2280-92	11.9	168
224	Thick-shelled, grazer-protected diatoms decouple ocean carbon and silicon cycles in the iron-limited Antarctic Circumpolar Current. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 20633-8	11.5	168
223	Water mass-specificity of bacterial communities in the North Atlantic revealed by massively parallel sequencing. <i>Molecular Ecology</i> , 2011 , 20, 258-74	5.7	164
222	Ocean chemistry. Dilution limits dissolved organic carbon utilization in the deep ocean. <i>Science</i> , 2015 , 348, 331-3	33.3	156

221	Extracellular enzymatic activity and secondary production in free-living and marine-snow-associated bacteria. <i>Marine Biology</i> , 1992 , 113, 341-347	2.5	151
220	High phylogenetic diversity in a marine-snow-associated bacterial assemblage. <i>Aquatic Microbial Ecology</i> , 1998 , 14, 261-269	1.1	148
219	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	4.8	139
218	Variations in spatial and temporal distribution of Archaea in the North Sea in relation to environmental variables. <i>FEMS Microbiology Ecology</i> , 2007 , 62, 242-57	4.3	131
217	Drivers shaping the diversity and biogeography of total and active bacterial communities in the South China Sea. <i>Molecular Ecology</i> , 2014 , 23, 2260-74	5.7	123
216	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	2.3	119
215	Major role of nitrite-oxidizing bacteria in dark ocean carbon fixation. <i>Science</i> , 2017 , 358, 1046-1051	33.3	118
214	Archaeal amoA gene diversity points to distinct biogeography of ammonia-oxidizing Crenarchaeota in the ocean. <i>Environmental Microbiology</i> , 2013 , 15, 1647-58	5.2	113
213	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	3.1	113
212	Epsilonproteobacteria 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, 7546-51	4.8	112
211	Major contribution of autotrophy to microbial carbon cycling in the deep North Atlantic interior. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2010 , 57, 1572-1580	2.3	110
210	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	4.8	109
209	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	4.8	109
208	Contrasting effects of solar radiation on dissolved organic matter and its bioavailability to marine bacterioplankton. <i>Limnology and Oceanography</i> , 1999 , 44, 1645-1654	4.8	109
207	Physiological and genomic characterization of two novel marine thaumarchaeal strains indicates niche differentiation. <i>ISME Journal</i> , 2016 , 10, 1051-63	11.9	108
206	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	1.1	105
205	A survey on bacteria inhabiting the sea surface microlayer of coastal ecosystems. <i>FEMS Microbiology Ecology</i> , 2005 , 54, 269-80	4.3	105
204	Eukaryotic microbes, principally fungi and labyrinthulomycetes, dominate biomass on bathypelagic marine snow. <i>ISME Journal</i> , 2017 , 11, 362-373	11.9	101

203	Bacterial dynamics in spring water of alpine karst aquifers indicates the presence of stable autochthonous microbial endokarst communities. <i>Environmental Microbiology</i> , 2005 , 7, 1248-59	5.2	100
202	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	3.7	97
201	Microbes and the Dissipation of Energy and Respiration: From Cells to Ecosystems. <i>Oceanography</i> , 2007 , 20, 89-100	2.3	97
200	Spatial distribution of Bacteria and Archaea and amoA gene copy numbers throughout the water column of the Eastern Mediterranean Sea. <i>ISME Journal</i> , 2009 , 3, 147-58	11.9	96
199	Diel cycles in viral infection of bacterioplankton in the North Sea. <i>Aquatic Microbial Ecology</i> , 2004 , 35, 207-216	1.1	90
198	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	5.2	89
197	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	4.8	89
196	Inhibitory effect of solar radiation on thymidine and leucine incorporation by freshwater and marine bacterioplankton. <i>Applied and Environmental Microbiology</i> , 1997 , 63, 4178-84	4.8	89
195	SAR202 Genomes from the Dark Ocean Predict Pathways for the Oxidation of Recalcitrant Dissolved Organic Matter. <i>MBio</i> , 2017 , 8,	7.8	88
194	Relevance of a crenarchaeotal subcluster related to Candidatus Nitrosopumilus maritimus to ammonia oxidation in the suboxic zone of the central Baltic Sea. <i>ISME Journal</i> , 2010 , 4, 1496-508	11.9	87
193	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	4.8	87
192	A comparison of DNA- and RNA-based clone libraries from the same marine bacterioplankton community. <i>FEMS Microbiology Ecology</i> , 2005 , 51, 341-52	4.3	86
191	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	4.8	84
190	Viral abundance, decay, and diversity in the meso- and bathypelagic waters of the north atlantic. <i>Applied and Environmental Microbiology</i> , 2007 , 73, 4429-38	4.8	82
189	Impact of virioplankton on archaeal and bacterial community richness as assessed in seawater batch cultures. <i>Applied and Environmental Microbiology</i> , 2004 , 70, 804-13	4.8	82
188	Production and release of bacterial capsular material and its subsequent utilization by marine bacterioplankton. <i>Limnology and Oceanography</i> , 1998 , 43, 877-884	4.8	82
187	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	11.5	76
186	Comparison of samplers for the biological characterization of the sea surface microlayer. <i>Limnology and Oceanography: Methods</i> , 2004 , 2, 213-225	2.6	76

185	Chemotaxonomic characterisation of the thaumarchaeal lipidome. <i>Environmental Microbiology</i> , 2017 , 19, 2681-2700	5.2	75
184	Towards a better understanding of microbial carbon flux in the sea*. <i>Aquatic Microbial Ecology</i> , 2008 , 53, 21-38	1.1	73
183	High dissolved extracellular enzymatic activity in the deep central Atlantic Ocean. <i>Aquatic Microbial Ecology</i> , 2010 , 58, 287-302	1.1	73
182	Latitudinal trends of Crenarchaeota and Bacteria in the meso- and bathypelagic water masses of the Eastern North Atlantic. <i>Environmental Microbiology</i> , 2008 , 10, 110-24	5.2	71
181	Interspecific variability in sensitivity to UV radiation and subsequent recovery in selected isolates of marine bacteria. <i>Applied and Environmental Microbiology</i> , 2000 , 66, 1468-73	4.8	71
180	Abundance and activity of Chloroflexi-type SAR202 bacterioplankton in the meso- and bathypelagic waters of the (sub)tropical Atlantic. <i>Environmental Microbiology</i> , 2008 , 10, 1903-11	5.2	70
179	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, 159-72	2.8	70
178	Production of exopolymer particles by marine bacterioplankton under contrasting turbulence conditions. <i>Marine Ecology - Progress Series</i> , 1999 , 189, 9-16	2.6	70
177	Photolysis of dimethylsulfide in the northern Adriatic Sea: Dependence on substrate concentration, irradiance and DOC concentration. <i>Marine Chemistry</i> , 1998 , 59, 321-331	3.7	69
176	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	1.1	67
175	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	4.8	65
174	Impact of UV radiation on bacterioplankton community composition. <i>Applied and Environmental Microbiology</i> , 2001 , 67, 665-72	4.8	64
173	The Ecology of Amorphous Aggregations (Marine Snow) in the Northern Adriatic Sea:. <i>Marine Ecology</i> , 1988 , 9, 79-90	1.4	63
172	Microbial activities and the transformation of organic matter within mucilaginous material. <i>Science of the Total Environment</i> , 1995 , 165, 33-42	10.2	62
171	Photo- and bioreactivity of chromophoric dissolved organic matter produced by marine bacterioplankton. <i>Aquatic Microbial Ecology</i> , 2004 , 36, 239-246	1.1	62
170	Mesoscale eddies: hotspots of prokaryotic activity and differential community structure in the ocean. <i>ISME Journal</i> , 2010 , 4, 975-88	11.9	61
169	Organic content and bacterial metabolism in amorphous aggregations of the northern Adriatic Sea. <i>Limnology and Oceanography</i> , 1994 , 39, 58-68	4.8	60
168	Microheterotrophic utilization of mucus released by the Mediterranean coral <i>Cladocora cespitosa</i> . <i>Marine Biology</i> , 1986 , 90, 363-369	2.5	60

167	Links between viruses and prokaryotes throughout the water column along a North Atlantic latitudinal transect. <i>ISME Journal</i> , 2012 , 6, 1566-77	11.9	59
166	Changes in bacterial Eglucosidase diversity during a coastal phytoplankton bloom. <i>Limnology and Oceanography</i> , 2002 , 47, 594-599	4.8	59
165	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, 8287-91	11.5	57
164	Enhanced heterotrophic activity in the surface microlayer of the Mediterranean Sea. <i>Aquatic Microbial Ecology</i> , 2005 , 39, 293-302	1.1	57
163	Ultraviolet-B radiation and bacterial metabolism in coastal waters. <i>Aquatic Microbial Ecology</i> , 1995 , 9, 111-116	1.1	57
162	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, 7022-8	4.8	56
161	Complexity of bacterial communities in a river-floodplain system (Danube, Austria). <i>Applied and Environmental Microbiology</i> , 2005 , 71, 609-20	4.8	56
160	Relationship between bacterioplankton richness, respiration, and production in the Southern North Sea. <i>Applied and Environmental Microbiology</i> , 2005 , 71, 2260-6	4.8	56
159	Response of bacterioplankton to iron fertilization in the Southern Ocean. <i>Limnology and Oceanography</i> , 2004 , 49, 799-808	4.8	55
158	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	4.8	55
157	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	1.1	54
156	Resolving the abundance and air-sea fluxes of airborne microorganisms in the North Atlantic Ocean. <i>Frontiers in Microbiology</i> , 2014 , 5, 557	5.7	51
155	The microbial carbon pump and the oceanic recalcitrant dissolved organic matter pool. <i>Nature Reviews Microbiology</i> , 2011 , 9, 555-555	22.2	50
154	Formation and significance of transparent exopolymeric particles in the northern Adriatic Sea. <i>Marine Ecology - Progress Series</i> , 1995 , 124, 227-236	2.6	50
153	Viral and flagellate control of prokaryotic production and community structure in offshore Mediterranean waters. <i>Applied and Environmental Microbiology</i> , 2009 , 75, 4801-12	4.8	49
152	Ecto enzymatic Activity and Uptake of Monomers in Marine Bacterioplankton Described by a Biphasic Kinetic Model. <i>Microbial Ecology</i> , 1999 , 37, 36-48	4.4	49
151	Bacterial activity along a trophic gradient. <i>Microbial Ecology</i> , 1992 , 24, 243-57	4.4	49
150	Ultrastructure of marine snow. I. Transmission electron microscopy methodology. <i>Marine Ecology - Progress Series</i> , 1996 , 135, 289-298	2.6	49

149	High atmosphere-ocean exchange of organic carbon in the NE subtropical Atlantic. <i>Geophysical Research Letters</i> , 2005 , 32,	4.9	48
148	Major shift in bacterioplankton utilization of enantiomeric amino acids between surface waters and the ocean's interior. <i>Limnology and Oceanography</i> , 2003 , 48, 755-763	4.8	48
147	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, n/a-n/a	4.9	45
146	Heterotrophic prokaryotic production in ultraoligotrophic alpine karst aquifers and ecological implications. <i>FEMS Microbiology Ecology</i> , 2009 , 68, 287-99	4.3	45
145	Diel periodicity of bacterioplankton in the euphotic zone of the subtropical Atlantic Ocean. <i>Marine Ecology - Progress Series</i> , 2000 , 201, 13-25	2.6	45
144	Geographic Distribution of Archaeal Ammonia Oxidizing Ecotypes in the Atlantic Ocean. <i>Frontiers in Microbiology</i> , 2016 , 7, 77	5.7	45
143	Deposit Feeding and Sediment:. <i>Marine Ecology</i> , 1991 , 12, 163-174	1.4	44
142	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	1.1	44
141	Seasonal dynamics of bacterial growth efficiencies in relation to phytoplankton in the southern North Sea. <i>Aquatic Microbial Ecology</i> , 2005 , 39, 7-16	1.1	43
140	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	4.8	41
139	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	2.6	41
138	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	2.6	40
137	Links between viral and prokaryotic communities throughout the water column in the (sub)tropical Atlantic Ocean. <i>ISME Journal</i> , 2010 , 4, 1431-42	11.9	39
136	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	2.3	39
135	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	2.5	38
134	Ultrastructure of marine snow. II. Microbiological considerations. <i>Marine Ecology - Progress Series</i> , 1996 , 135, 299-308	2.6	36
133	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	11.5	35
132	Contribution of Crenarchaeota and Bacteria to autotrophy in the North Atlantic interior. <i>Environmental Microbiology</i> , 2011 , 13, 1524-33	5.2	35

131	Diversity of Archaea and detection of crenarchaeotal amoA genes in the rivers Rhine and Tē. <i>Aquatic Microbial Ecology</i> , 2009 , 55, 189-201	1.1	35
130	Spatial patterns of bacterial abundance, activity and community composition in relation to water masses in the eastern Mediterranean Sea. <i>Aquatic Microbial Ecology</i> , 2010 , 59, 185-195	1.1	34
129	Ammonia-oxidizing archaea release a suite of organic compounds potentially fueling prokaryotic heterotrophy in the ocean. <i>Environmental Microbiology</i> , 2019 , 21, 4062-4075	5.2	33
128	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	3.7	33
127	Bacterial versus archaeal origin of extracellular enzymatic activity in the Northeast Atlantic deep waters. <i>Microbial Ecology</i> , 2013 , 65, 277-88	4.4	31
126	Role of mesoscale cyclonic eddies in the distribution and activity of Archaea and Bacteria in the South China Sea. <i>Aquatic Microbial Ecology</i> , 2009 , 56, 65-79	1.1	31
125	Connectivity between surface and deep waters determines prokaryotic diversity in the North Atlantic Deep Water. <i>Environmental Microbiology</i> , 2016 , 18, 2052-63	5.2	31
124	Dynamics and diversity of newly produced virioplankton in the North Sea. <i>ISME Journal</i> , 2008 , 2, 924-36	11.9	30
123	Prokaryotic community analysis with CARD-FISH in comparison with FISH in ultra-oligotrophic ground- and drinking water. <i>Journal of Applied Microbiology</i> , 2007 , 103, 871-81	4.7	30
122	Dragon kings of the deep sea: marine particles deviate markedly from the common number-size spectrum. <i>Scientific Reports</i> , 2016 , 6, 22633	4.9	29
121	Linking bacterial richness with viral abundance and prokaryotic activity. <i>Limnology and Oceanography</i> , 2005 , 50, 968-977	4.8	29
120	Evidence of enhanced microbial activity in the interstitial space of branched corals: possible implications for coral metabolism. <i>Coral Reefs</i> , 1989 , 7, 179-184	4.2	29
119	Prokaryotic Responses to Ammonium and Organic Carbon Reveal Alternative CO Fixation Pathways and Importance of Alkaline Phosphatase in the Mesopelagic North Atlantic. <i>Frontiers in Microbiology</i> , 2016 , 7, 1670	5.7	29
118	Extracting DNA from ocean microplastics: a method comparison study. <i>Analytical Methods</i> , 2017 , 9, 15213-1526	3.526	28
117	Mesoscale variability modulates seasonal changes in the trophic structure of nano- and picoplankton communities across the NW Africa-Canary Islands transition zone. <i>Progress in Oceanography</i> , 2009 , 83, 180-188	3.8	28
116	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	4.8	28
115	Role of ultraviolet-B radiation on bacterioplankton and the availability of dissolved organic matter. <i>Plant Ecology</i> , 1997 , 128, 43-51	1.7	28
114	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	1.1	28

113	Comparison of deep-water viromes from the atlantic ocean and the mediterranean sea. <i>PLoS ONE</i> , 2014 , 9, e100600	3.7	27
112	Seasonal dynamics of dissolved organic matter and microbial activity in the coastal North Sea. <i>Aquatic Microbial Ecology</i> , 2010 , 60, 85-95	1.1	27
111	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	2.5	26
110	Metagenomic insights into zooplankton-associated bacterial communities. <i>Environmental Microbiology</i> , 2018 , 20, 492-505	5.2	26
109	Seasonal and spatial distribution of dissolved and particulate organic carbon and bacteria in the bank of an impounding reservoir on the Enns River, Austria. <i>Freshwater Biology</i> , 2001 , 46, 997-1016	3.1	26
108	Temporal dynamics in the free-living bacterial community composition in the coastal North Sea. <i>FEMS Microbiology Ecology</i> , 2013 , 83, 413-24	4.3	25
107	Prokaryotic carbon utilization in the dark ocean: growth efficiency, leucine-to-carbon conversion factors, and their relation. <i>Aquatic Microbial Ecology</i> , 2010 , 60, 227-232	1.1	25
106	Microbiome variation in corals with distinct depth distribution ranges across a shallow-mesophotic gradient (15-85m). <i>Coral Reefs</i> , 2017 , 36, 447-452	4.2	24
105	Relationship of geographic distance, depth, temperature, and viruses with prokaryotic communities in the eastern tropical Atlantic Ocean. <i>Microbial Ecology</i> , 2008 , 56, 383-9	4.4	24
104	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	2.2	24
103	Jellyfish-Associated Microbiome in the Marine Environment: Exploring Its Biotechnological Potential. <i>Marine Drugs</i> , 2019 , 17,	6	24
102	Depth Dependent Relationships between Temperature and Ocean Heterotrophic Prokaryotic Production. <i>Frontiers in Marine Science</i> , 2016 , 3,	4.5	23
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	4.4	22
100	Potential microbial utilization rates of sublittoral gastropod mucus trails. <i>Limnology and Oceanography</i> , 1989 , 34, 780-784	4.8	22
99	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	2.2	22
98	Proteomic Response of Three Marine Ammonia-Oxidizing Archaea to Hydrogen Peroxide and Their Metabolic Interactions with a Heterotrophic Alphaproteobacterium. <i>MSystems</i> , 2019 , 4,	7.6	21
97	Comparison between MICROCARDISH and 16S rRNA gene clone libraries to assess the active versus total bacterial community in the coastal Arctic. <i>Environmental Microbiology Reports</i> , 2013 , 5, 272-81	3.7	21
96	Changes in viral and bacterial communities during the ice-melting season in the coastal Arctic (Kongsfjorden, Ny-Ålesund). <i>Environmental Microbiology</i> , 2011 , 13, 1827-41	5.2	21

95	Assessing the diversity of marine bacterial beta-glucosidases by capillary electrophoresis zymography. <i>Applied and Environmental Microbiology</i> , 2001 , 67, 4896-900	4.8	21
94	Seasonal variation in marine-snow-associated and ambient-water prokaryotic communities in the northern Adriatic Sea. <i>Aquatic Microbial Ecology</i> , 2014 , 73, 211-224	1.1	21
93	Fully automated spectrophotometric approach to determine oxygen concentrations in seawater via continuous-flow analysis. <i>Limnology and Oceanography: Methods</i> , 2006 , 4, 358-366	2.6	20
92	Dimethylsulfoniopropionate in corals and its interrelations with bacterial assemblages in coral surface mucus. <i>Environmental Chemistry</i> , 2016 , 13, 252	3.2	20
91	Large-scale distribution of microbial and viral populations in the South Atlantic Ocean. <i>Environmental Microbiology Reports</i> , 2016 , 8, 305-15	3.7	20
90	Linking extracellular enzymes to phylogeny indicates a predominantly particle-associated lifestyle of deep-sea prokaryotes. <i>Science Advances</i> , 2020 , 6, eaaz4354	14.3	20
89	Diversity and distribution of microbial eukaryotes in the deep tropical and subtropical North Atlantic Ocean. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2013 , 78, 58-69	2.5	19
88	Characteristics and Diversity of beta-d-Glucosidase (EC 3.2.1.21) Activity in Marine Snow. <i>Applied and Environmental Microbiology</i> , 1994 , 60, 807-13	4.8	19
87	Sunlight effects on the Osmotrophic uptake of DMSP-sulfur and leucine by polar phytoplankton. <i>PLoS ONE</i> , 2012 , 7, e45545	3.7	19
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