Gerhard J Herndl

List of Publications by Year in Descending Order

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	Phylogenetically and functionally diverse microorganisms reside under the Ross Ice Shelf.. *Nature Communications*, **2022**, 13, 117	17.4	0
237	Microbial Inhabitants of the Dark Ocean. *The Microbiomes of Humans, Animals, Plants, and the Environment*, **2022**, 425-459		
236	Microbial Consortiums of Putative Degraders of Low-Density Polyethylene-Associated Compounds in the Ocean.. *MSystems*, **2022**, e0141521	7.6	0
235	Extracellular Enzymatic Activities of Oceanic Pelagic Fungal Strains and the Influence of Temperature. *Journal of Fungi (Basel, Switzerland)*, **2022**, 8, 571	5.6	
234	What Is Refractory Organic Matter in the Ocean?. *Frontiers in Marine Science*, **2021**, 8,	4.5	6
233	The importance of jellyfish□microbe interactions for biogeochemical cycles in the ocean. *Limnology and Oceanography*, **2021**, 66, 2011-2032	4.8	5
232	Correcting a major error in assessing organic carbon pollution in natural waters. *Science Advances*, **2021**, 7,	14.3	8
231	Enzyme promiscuity in natural environments: alkaline phosphatase in the ocean. *ISME Journal*, **2021** , 15, 3375-3383	11.9	5
230	Selective DNA and Protein Isolation From Marine Macrophyte Surfaces. *Frontiers in Microbiology*, **2021**, 12, 665999	5.7	1
229	Potential and expression of carbohydrate utilization by marine fungi in the global ocean. *Microbiome*, **2021**, 9, 106	16.6	8
228	Reviews and syntheses: Heterotrophic fixation of inorganic carbon □ significant but invisible flux in environmental carbon cycling. *Biogeosciences*, **2021**, 18, 3689-3700	4.6	12
227	Recognizing the complexity of soil organic carbon dynamics in vegetated coastal habitats. *Global Change Biology*, **2021**, 27, 3-4	11.4	1
226	Adapting an Ergosterol Extraction Method with Marine Yeasts for the Quantification of Oceanic Fungal Biomass. *Journal of Fungi (Basel, Switzerland)*, **2021**, 7,	5.6	1
225	Microbes mediating the sulfur cycle in the Atlantic Ocean and their link to chemolithoautotrophy. *Environmental Microbiology*, **2021**, 23, 7152-7167	5.2	
224	Seasonal Dynamics of Epiphytic Microbial Communities on Marine Macrophyte Surfaces. *Frontiers in Microbiology*, **2021**, 12, 671342	5.7	2
223	Nitrifier adaptation to low energy flux controls inventory of reduced nitrogen in the dark ocean. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 4823-4830	11.5	35
222	Hiding in Plain Sight: The Globally Distributed Bacterial Candidate Phylum PAUC34f. *Frontiers in Microbiology*, **2020**, 11, 376	5.7	3

221	Effects of the Invasion of Caulerpa cylindracea in a Cymodocea nodosa Meadow in the Northern Adriatic Sea. *Frontiers in Marine Science*, **2020**, 7,	4.5	2
220	Dynamics of environmental conditions during the decline of a <i>Cymodocea nodosa</i> meadow. *Biogeosciences*, **2020**, 17, 3299-3315	4.6	3
219	Seasonality combined with the orientation of surfaces influences the microbial community structure of biofilms in the deep Mediterranean Sea. *Deep-Sea Research Part II: Topical Studies in Oceanography*, **2020**, 171, 104703	2.3	5
218	Functional Seasonality of Free-Living and Particle-Associated Prokaryotic Communities in the Coastal Adriatic Sea. *Frontiers in Microbiology*, **2020**, 11, 584222	5.7	5
217	Microbial Processing of Jellyfish Detritus in the Ocean. *Frontiers in Microbiology*, **2020**, 11, 590995	5.7	4
216	Nitrogen Isotope Fractionation During Archaeal Ammonia Oxidation: Coupled Estimates From Measurements of Residual Ammonium and Accumulated Nitrite. *Frontiers in Microbiology*, **2020**, 11, 1710	5.7	5
215	Mesozooplankton taurine production and prokaryotic uptake in the northern Adriatic Sea. *Limnology and Oceanography*, **2020**, 65, 2730-2747	4.8	0
214	Putative degraders of low-density polyethylene-derived compounds are ubiquitous members of plastic-associated bacterial communities in the marine environment. *Environmental Microbiology*, **2020**, 22, 4779-4793	5.2	6
213	Linking extracellular enzymes to phylogeny indicates a predominantly particle-associated lifestyle of deep-sea prokaryotes. *Science Advances*, **2020**, 6, eaaz4354	14.3	20
212	Taurine Is a Major Carbon and Energy Source for Marine Prokaryotes in the North Atlantic Ocean off the Iberian Peninsula. *Microbial Ecology*, **2019**, 78, 299-312	4.4	22
211	Resolving the paradox: Continuous cell-free alkaline phosphatase activity despite high phosphate concentrations. *Marine Chemistry*, **2019**, 214, 103671	3.7	12
210	Proteomic Response of Three Marine Ammonia-Oxidizing Archaea to Hydrogen Peroxide and Their Metabolic Interactions with a Heterotrophic Alphaproteobacterium. *MSystems*, **2019**, 4,	7.6	21
209	Global Structuring of Phylogenetic and Functional Diversity of Pelagic Fungi by Depth and Temperature. *Frontiers in Marine Science*, **2019**, 6,	4.5	17
208	The composition of bacterial communities associated with plastic biofilms differs between different polymers and stages of biofilm succession. *PLoS ONE*, **2019**, 14, e0217165	3.7	97
207	Highly variable mRNA half-life time within marine bacterial taxa and functional genes. *Environmental Microbiology*, **2019**, 21, 3873-3884	5.2	11
206	Seasonal dynamics of marine snow-associated and free-living demethylating bacterial communities in the coastal northern Adriatic Sea. *Environmental Microbiology Reports*, **2019**, 11, 699-707	3.7	7
205	Ammonia-oxidizing archaea release a suite of organic compounds potentially fueling prokaryotic heterotrophy in the ocean. *Environmental Microbiology*, **2019**, 21, 4062-4075	5.2	33
204	Towards Integrating Evolution, Metabolism, and Climate Change Studies of Marine Ecosystems. *Trends in Ecology and Evolution*, **2019**, 34, 1022-1033	10.9	15

203	Viral Communities in the Global Deep Ocean Conveyor Belt Assessed by Targeted Viromics. *Frontiers in Microbiology*, **2019**, 10, 1801	5.7	12
202	Niche Differentiation of Aerobic and Anaerobic Ammonia Oxidizers in a High Latitude Deep Oxygen Minimum Zone. *Frontiers in Microbiology*, **2019**, 10, 2141	5.7	18
201	Uneven host cell growth causes lysogenic virus induction in the Baltic Sea. *PLoS ONE*, **2019**, 14, e0220716	3.7	1
200	Nitrosopumilus adriaticus sp. nov. and Nitrosopumilus piranensis sp. nov., two ammonia-oxidizing archaea from the Adriatic Sea and members of the class Nitrososphaeria. *International Journal of Systematic and Evolutionary Microbiology*, **2019**, 69, 1892-1902	2.2	22
199	Jellyfish-Associated Microbiome in the Marine Environment: Exploring Its Biotechnological Potential. *Marine Drugs*, **2019**, 17,	6	24
198	Ideas and perspectives: Is dark carbon fixation relevant for oceanic primary production estimates?. *Biogeosciences*, **2019**, 16, 3793-3799	4.6	14
197	Estimating Carbon Flux From Optically Recording Total Particle Volume at Depths Below the Primary Pycnocline. *Frontiers in Marine Science*, **2019**, 6,	4.5	1
196	Differential Response of Cafeteria roenbergensis to Different Bacterial and Archaeal Prey Characteristics. *Microbial Ecology*, **2019**, 78, 1-5	4.4	12
195	Dissolved organic carbon leaching from plastics stimulates microbial activity in the ocean. *Nature Communications*, **2018**, 9, 1430	17.4	198
194	Mixing alters the lytic activity of viruses in the dark ocean. *Ecology*, **2018**, 99, 700-713	4.6	10
193	Organic matter processing by microbial communities throughout the Atlantic water column as revealed by metaproteomics. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, E400-E408	11.5	76
192	Metagenomic insights into zooplankton-associated bacterial communities. *Environmental Microbiology*, **2018**, 20, 492-505	5.2	26
191	Dialysis Bag Incubation as a Nonradiolabeling Technique to Estimate Bacterioplankton Production In Situ **2018**, 553-556		2
190	High dark inorganic carbon fixation rates by specific microbial groups in the Atlantic off the Galician coast (NW Iberian margin). *Environmental Microbiology*, **2018**, 20, 602-611	5.2	16
189	Host Differentiation and Compartmentalization of Microbial Communities in the Azooxanthellate Cupcorals Tubastrea coccinea and Rhizopsammia goesi in the Caribbean. *Frontiers in Marine Science*, **2018**, 5,	4.5	8
188	Seasonal variations in extracellular enzymatic activity in marine snow-associated microbial communities and their impact on the surrounding water. *FEMS Microbiology Ecology*, **2018**, 94,	4.3	13
187	Microbiome variation in corals with distinct depth distribution ranges across a shallow-mesophotic gradient (15-85 m). *Coral Reefs*, **2017**, 36, 447-452	4.2	24
186	SAR202 Genomes from the Dark Ocean Predict Pathways for the Oxidation of Recalcitrant Dissolved Organic Matter. *MBio*, **2017**, 8,	7.8	88

185	Chemotaxonomic characterisation of the thaumarchaeal lipidome. *Environmental Microbiology*, **2017**, 19, 2681-2700	5.2	75
184	Crustacean zooplankton release copious amounts of dissolved organic matter as taurine in the ocean. *Limnology and Oceanography*, **2017**, 62, 2745-2758	4.8	16
183	Major role of nitrite-oxidizing bacteria in dark ocean carbon fixation. *Science*, **2017**, 358, 1046-1051	33.3	118
182	Extracting DNA from ocean microplastics: a method comparison study. *Analytical Methods*, **2017**, 9, 1521-1526	3.2	28
181	Eukaryotic microbes, principally fungi and labyrinthulomycetes, dominate biomass on bathypelagic marine snow. *ISME Journal*, **2017**, 11, 362-373	11.9	101
180	High viral abundance as a consequence of low viral decay in the Baltic Sea redoxcline. *PLoS ONE*, **2017**, 12, e0178467	3.7	9
179	Dragon kings of the deep sea: marine particles deviate markedly from the common number-size spectrum. *Scientific Reports*, **2016**, 6, 22633	4.9	29
178	The microbiome of coral surface mucus has a key role in mediating holobiont health and survival upon disturbance. *ISME Journal*, **2016**, 10, 2280-92	11.9	168
177	Physiological and genomic characterization of two novel marine thaumarchaeal strains indicates niche differentiation. *ISME Journal*, **2016**, 10, 1051-63	11.9	108
176	Archaeal and Bacterial Communities Associated with the Surface Mucus of Caribbean Corals Differ in Their Degree of Host Specificity and Community Turnover Over Reefs. *PLoS ONE*, **2016**, 11, e0144702	3.7	17
175	Depth Dependent Relationships between Temperature and Ocean Heterotrophic Prokaryotic Production. *Frontiers in Marine Science*, **2016**, 3,	4.5	23
174	Geographic Distribution of Archaeal Ammonia Oxidizing Ecotypes in the Atlantic Ocean. *Frontiers in Microbiology*, **2016**, 7, 77	5.7	45
173	Prokaryotic Responses to Ammonium and Organic Carbon Reveal Alternative CO Fixation Pathways and Importance of Alkaline Phosphatase in the Mesopelagic North Atlantic. *Frontiers in Microbiology*, **2016**, 7, 1670	5.7	29
172	Connectivity between surface and deep waters determines prokaryotic diversity in the North Atlantic Deep Water. *Environmental Microbiology*, **2016**, 18, 2052-63	5.2	31
171	Dimethylsulfoniopropionate in corals and its interrelations with bacterial assemblages in coral surface mucus. *Environmental Chemistry*, **2016**, 13, 252	3.2	20
170	Springtime dynamics, productivity and activity of prokaryotes in two Arctic fjords. *Polar Biology*, **2016**, 39, 1749-1763	2	16
169	Large-scale distribution of microbial and viral populations in the South Atlantic Ocean. *Environmental Microbiology Reports*, **2016**, 8, 305-15	3.7	20
168	Erythromycin and GC7 fail as domain-specific inhibitors for bacterial and archaeal activity in the open ocean. *Aquatic Microbial Ecology*, **2016**, 77, 99-110	1.1	2

167	Ocean chemistry. Dilution limits dissolved organic carbon utilization in the deep ocean. *Science*, **2015**, 348, 331-3	33.3	156
166	Macroecological patterns of archaeal ammonia oxidizers in the Atlantic Ocean. *Molecular Ecology*, **2015**, 24, 4931-42	5.7	15
165	Production and degradation of fluorescent dissolved organic matter in surface waters of the eastern north Atlantic ocean. *Deep-Sea Research Part I: Oceanographic Research Papers*, **2015**, 96, 28-37	2.5	26
164	Conservation of dissolved organic matter molecular composition during mixing of the deep water masses of the northeast Atlantic Ocean. *Marine Chemistry*, **2015**, 177, 288-297	3.7	33
163	Response to Comment on "Dilution limits dissolved organic carbon utilization in the deep ocean". *Science*, **2015**, 350, 1483	33.3	10
162	Potential impacts of black carbon on the marine microbial community. *Aquatic Microbial Ecology*, **2015**, 75, 27-42	1.1	18
161	Drivers shaping the diversity and biogeography of total and active bacterial communities in the South China Sea. *Molecular Ecology*, **2014**, 23, 2260-74	5.7	123
160	Resolving the abundance and air-sea fluxes of airborne microorganisms in the North Atlantic Ocean. *Frontiers in Microbiology*, **2014**, 5, 557	5.7	51
159	Fracture zones in the Mid Atlantic Ridge lead to alterations in prokaryotic and viral parameters in deep-water masses. *Frontiers in Microbiology*, **2014**, 5, 264	5.7	14
158	Comparison of deep-water viromes from the atlantic ocean and the mediterranean sea. *PLoS ONE*, **2014**, 9, e100600	3.7	27
157	Linkage between copepods and bacteria in the North Atlantic Ocean. *Aquatic Microbial Ecology*, **2014**, 72, 215-225	1.1	18
156	Seasonal variation in marine-snow-associated and ambient-water prokaryotic communities in the northern Adriatic Sea. *Aquatic Microbial Ecology*, **2014**, 73, 211-224	1.1	21
155	Archaeal amoA gene diversity points to distinct biogeography of ammonia-oxidizing Crenarchaeota in the ocean. *Environmental Microbiology*, **2013**, 15, 1647-58	5.2	113
154	Bacterial versus archaeal origin of extracellular enzymatic activity in the Northeast Atlantic deep waters. *Microbial Ecology*, **2013**, 65, 277-88	4.4	31
153	Microbial control of the dark end of the biological pump. *Nature Geoscience*, **2013**, 6, 718-724	18.3	183
152	Diversity and distribution of microbial eukaryotes in the deep tropical and subtropical North Atlantic Ocean. *Deep-Sea Research Part I: Oceanographic Research Papers*, **2013**, 78, 58-69	2.5	19
151	Temporal dynamics in the free-living bacterial community composition in the coastal North Sea. *FEMS Microbiology Ecology*, **2013**, 83, 413-24	4.3	25
150	Abundance and distribution of archaeal acetyl-CoA/propionyl-CoA carboxylase genes indicative for putatively chemoautotrophic Archaea in the tropical Atlantic's interior. *FEMS Microbiology Ecology*, **2013**, 84, 461-73	4.3	10

149	Comparison between MICRO□CARD□ISH and 16S rRNA gene clone libraries to assess the active versus total bacterial community in the coastal Arctic. *Environmental Microbiology Reports*, **2013**, 5, 272-81	3.7	21
148	Spatial patterns of bacterial and archaeal communities along the Romanche Fracture Zone (tropical Atlantic). *FEMS Microbiology Ecology*, **2013**, 85, 537-52	4.3	11
147	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, 20633-8	11.5	168
146	Prevalence of strong vertical CO2 and O2 variability in the top meters of the ocean. *Global Biogeochemical Cycles*, **2013**, 27, 941-949	5.9	7
145	Impact of water mass mixing on the biogeochemistry and microbiology of the Northeast Atlantic Deep Water. *Global Biogeochemical Cycles*, **2013**, 27, 1151-1162	5.9	14
144	Development and deployment of a point-source digital inline holographic microscope for the study of plankton and particles to a depth of 6000 m. *Limnology and Oceanography: Methods*, **2013**, 11, 28-40	2.6	40
143	Major effect of hydrogen peroxide on bacterioplankton metabolism in the Northeast Atlantic. *PLoS ONE*, **2013**, 8, e61051	3.7	18
142	Direct observations of diel biological CO₂ fixation on the Scotian Shelf, northwestern Atlantic Ocean. *Biogeosciences*, **2012**, 9, 2301-2309	4.6	9
141	Deep carbon export from a Southern Ocean iron-fertilized diatom bloom. *Nature*, **2012**, 487, 313-9	50.4	280
140	Microbial functioning and community structure variability in the mesopelagic and epipelagic waters of the subtropical northeast atlantic ocean. *Applied and Environmental Microbiology*, **2012**, 78, 3309-16	4.8	15
139	Links between viruses and prokaryotes throughout the water column along a North Atlantic latitudinal transect. *ISME Journal*, **2012**, 6, 1566-77	11.9	59
138	Sunlight effects on the Osmotrophic uptake of DMSP-sulfur and leucine by polar phytoplankton. *PLoS ONE*, **2012**, 7, e45545	3.7	19
137	Differentiating leucine incorporation of Archaea and Bacteria throughout the water column of the eastern Atlantic using metabolic inhibitors. *Aquatic Microbial Ecology*, **2012**, 66, 247-256	1.1	7
136	Potential for chemolithoautotrophy among ubiquitous bacteria lineages in the dark ocean. *Science*, **2011**, 333, 1296-300	33.3	395
135	Contribution of Crenarchaeota and Bacteria to autotrophy in the North Atlantic interior. *Environmental Microbiology*, **2011**, 13, 1524-33	5.2	35
134	Changes in viral and bacterial communities during the ice-melting season in the coastal Arctic (Kongsfjorden, Ny-□esund). *Environmental Microbiology*, **2011**, 13, 1827-41	5.2	21
133	Water mass-specificity of bacterial communities in the North Atlantic revealed by massively parallel sequencing. *Molecular Ecology*, **2011**, 20, 258-74	5.7	164
132	DIEL IN SITU PICOPHYTOPLANKTON CELL DEATH CYCLES COUPLED WITH CELL DIVISION(1). *Journal of Phycology*, **2011**, 47, 1247-57	3	13

131	The microbial carbon pump and the oceanic recalcitrant dissolved organic matter pool. *Nature Reviews Microbiology*, **2011**, 9, 555-555	22.2	50
130	An overview of the structure and function of microbial biofilms, with special emphasis on heterotrophic aquatic microbial communities. *African Journal of Aquatic Science*, **2011**, 36, 1-10	1.6	6
129	Abundance of eukaryotic microbes in the deep subtropical North Atlantic. *Aquatic Microbial Ecology* , **2011**, 65, 103-115	1.1	13
128	Mesoscale eddies: hotspots of prokaryotic activity and differential community structure in the ocean. *ISME Journal*, **2010**, 4, 975-88	11.9	61
127	Links between viral and prokaryotic communities throughout the water column in the (sub)tropical Atlantic Ocean. *ISME Journal*, **2010**, 4, 1431-42	11.9	39
126	Relevance of a crenarchaeotal subcluster related to Candidatus Nitrosopumilus maritimus to ammonia oxidation in the suboxic zone of the central Baltic Sea. *ISME Journal*, **2010**, 4, 1496-508	11.9	87
125	Microbial production of recalcitrant dissolved organic matter: long-term carbon storage in the global ocean. *Nature Reviews Microbiology*, **2010**, 8, 593-9	22.2	849
124	Role of macroscopic particles in deep-sea oxygen consumption. *Proceedings of the National Academy of Sciences of the United States of America*, **2010**, 107, 8287-91	11.5	57
123	Significance of non-sinking particulate organic carbon and dark CO2 fixation to heterotrophic carbon demand in the mesopelagic northeast Atlantic. *Geophysical Research Letters*, **2010**, 37, n/a-n/a	4.9	45
122	Biogeochemical relationships between ultrafiltered dissolved organic matter and picoplankton activity in the Eastern Mediterranean Sea. *Deep-Sea Research Part II: Topical Studies in Oceanography*, **2010**, 57, 1460-1477	2.3	39
121	Emerging concepts on microbial processes in the bathypelagic ocean ecology, biogeochemistry, and genomics. *Deep-Sea Research Part II: Topical Studies in Oceanography*, **2010**, 57, 1519-1536	2.3	119
120	Major contribution of autotrophy to microbial carbon cycling in the deep North Atlantic interior. *Deep-Sea Research Part II: Topical Studies in Oceanography*, **2010**, 57, 1572-1580	2.3	110
119	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	1.1	34
118	High dissolved extracellular enzymatic activity in the deep central Atlantic Ocean. *Aquatic Microbial Ecology*, **2010**, 58, 287-302	1.1	73
117	Seasonal dynamics of dissolved organic matter and microbial activity in the coastal North Sea. *Aquatic Microbial Ecology*, **2010**, 60, 85-95	1.1	27
116	Prokaryotic carbon utilization in the dark ocean: growth efficiency, leucine-to-carbon conversion factors, and their relation. *Aquatic Microbial Ecology*, **2010**, 60, 227-232	1.1	25
115	Synechococcus and Prochlorococcus cell death induced by UV radiation and the penetration of lethal UVR in the Mediterranean Sea. *Marine Ecology - Progress Series*, **2010**, 399, 27-37	2.6	41
114	Viral and flagellate control of prokaryotic production and community structure in offshore Mediterranean waters. *Applied and Environmental Microbiology*, **2009**, 75, 4801-12	4.8	49

113	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	3.8	28
112	Spatial distribution of Bacteria and Archaea and amoA gene copy numbers throughout the water column of the Eastern Mediterranean Sea. *ISME Journal*, **2009**, 3, 147-58	11.9	96
111	Heterotrophic prokaryotic production in ultraoligotrophic alpine karst aquifers and ecological implications. *FEMS Microbiology Ecology*, **2009**, 68, 287-99	4.3	45
110	Prokaryotic extracellular enzymatic activity in relation to biomass production and respiration in the meso- and bathypelagic waters of the (sub)tropical Atlantic. *Environmental Microbiology*, **2009**, 11, 1998-2014	5.2	89
109	Deep-sea bacterial communities in sediments and guts of deposit-feeding holothurians in Portuguese canyons (NE Atlantic). *Deep-Sea Research Part I: Oceanographic Research Papers*, **2009**, 56, 1834-1843	2.5	38
108	Microbial oceanography of the dark ocean's pelagic realm. *Limnology and Oceanography*, **2009**, 54, 1501-1529	4.8	293
107	Evidence of prokaryotic metabolism on suspended particulate organic matter in the dark waters of the subtropical North Atlantic. *Limnology and Oceanography*, **2009**, 54, 182-193	4.8	87
106	Diversity of Archaea and detection of crenarchaeotal amoA genes in the rivers Rhine and Tt. *Aquatic Microbial Ecology*, **2009**, 55, 189-201	1.1	35
105	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	1.1	31
104	Dynamics and diversity of newly produced virioplankton in the North Sea. *ISME Journal*, **2008**, 2, 924-36	11.9	30
103	Major gradients in putatively nitrifying and non-nitrifying Archaea in the deep North Atlantic. *Nature*, **2008**, 456, 788-91	50.4	213
102	Abundance and activity of Chloroflexi-type SAR202 bacterioplankton in the meso- and bathypelagic waters of the (sub)tropical Atlantic. *Environmental Microbiology*, **2008**, 10, 1903-11	5.2	70
101	Epsilonproteobacteria represent the major portion of chemoautotrophic bacteria in sulfidic waters of pelagic redoxclines of the Baltic and Black Seas. *Applied and Environmental Microbiology*, **2008**, 74, 7546-51	4.8	112
100	Towards a better understanding of microbial carbon flux in the sea*. *Aquatic Microbial Ecology*, **2008**, 53, 21-38	1.1	73
99	Dissolved organic matter and bacterial production and respiration in the sea-surface microlayer of the open Atlantic and the western Mediterranean Sea. *Limnology and Oceanography*, **2008**, 53, 122-136	4.8	89
98	Latitudinal trends of Crenarchaeota and Bacteria in the meso- and bathypelagic water masses of the Eastern North Atlantic. *Environmental Microbiology*, **2008**, 10, 110-24	5.2	71
97	Relationship of geographic distance, depth, temperature, and viruses with prokaryotic communities in the eastern tropical Atlantic Ocean. *Microbial Ecology*, **2008**, 56, 383-9	4.4	24
96	Regulation of aquatic microbial processes: the microbial loop of the sunlit surface waters and the dark ocean dissected. *Aquatic Microbial Ecology*, **2008**, 53, 59-68	1.1	28

95	Microbes and the Dissipation of Energy and Respiration: From Cells to Ecosystems. *Oceanography*, **2007**, 20, 89-100	2.3	97
94	Prokaryotic community analysis with CARD-FISH in comparison with FISH in ultra-oligotrophic ground- and drinking water. *Journal of Applied Microbiology*, **2007**, 103, 871-81	4.7	30
93	Variations in spatial and temporal distribution of Archaea in the North Sea in relation to environmental variables. *FEMS Microbiology Ecology*, **2007**, 62, 242-57	4.3	131
92	Bacterioplankton community composition in nearshore waters of the NW Black Sea during consecutive diatom and coccolithophorid blooms. *Aquatic Sciences*, **2007**, 69, 413-418	2.5	11
91	Contribution of Crenarchaeota and Euryarchaeota to the prokaryotic plankton in the coastal northwestern Black Sea. *Journal of Plankton Research*, **2007**, 29, 699-706	2.2	24
90	Viral abundance, decay, and diversity in the meso- and bathypelagic waters of the north atlantic. *Applied and Environmental Microbiology*, **2007**, 73, 4429-38	4.8	82
89	Strong coast?ocean and surface?depth gradients in prokaryotic assemblage structure and activity in a coastal transition zone region. *Aquatic Microbial Ecology*, **2007**, 50, 63-74	1.1	44
88	Archaeal uptake of enantiomeric amino acids in the meso- and bathypelagic waters of the North Atlantic. *Limnology and Oceanography*, **2006**, 51, 60-69	4.8	109
87	Quantifying substrate uptake by individual cells of marine bacterioplankton by catalyzed reporter deposition fluorescence in situ hybridization combined with microautoradiography. *Applied and Environmental Microbiology*, **2006**, 72, 7022-8	4.8	56
86	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, 12115-20	11.5	2773
85	Archaeal nitrification in the ocean. *Proceedings of the National Academy of Sciences of the United States of America*, **2006**, 103, 12317-22	11.5	872
84	Distribution and activity of Bacteria and Archaea in the deep water masses of the North Atlantic. *Limnology and Oceanography*, **2006**, 51, 2131-2144	4.8	84
83	Prokaryotic respiration and production in the meso- and bathypelagic realm of the eastern and western North Atlantic basin. *Limnology and Oceanography*, **2006**, 51, 1262-1273	4.8	109
82	Viral burst size of heterotrophic prokaryotes in aquatic systems. *Journal of the Marine Biological Association of the United Kingdom*, **2006**, 86, 613-621	1.1	105
81	Fully automated spectrophotometric approach to determine oxygen concentrations in seawater via continuous-flow analysis. *Limnology and Oceanography: Methods*, **2006**, 4, 358-366	2.6	20
80	Microbial community structure in the sea surface microlayer at two contrasting coastal sites in the northwestern Mediterranean Sea. *Aquatic Microbial Ecology*, **2006**, 42, 91-104	1.1	67
79	Abundance and activity of major groups of prokaryotic plankton in the coastal North Sea during spring and summer. *Aquatic Microbial Ecology*, **2006**, 45, 237-246	1.1	54
78	Elemental composition of dissolved organic matter and bacterioplankton production in the Faroe-Shetland Channel (North Atlantic). *Deep-Sea Research Part I: Oceanographic Research Papers*, **2005**, 52, 85-97	2.5	8

77	High atmosphere-ocean exchange of organic carbon in the NE subtropical Atlantic. *Geophysical Research Letters*, **2005**, 32,	4.9	48
76	Enhanced heterotrophic activity in the surface microlayer of the Mediterranean Sea. *Aquatic Microbial Ecology*, **2005**, 39, 293-302	1.1	57
75	Linking bacterial richness with viral abundance and prokaryotic activity. *Limnology and Oceanography*, **2005**, 50, 968-977	4.8	29
74	A survey on bacteria inhabiting the sea surface microlayer of coastal ecosystems. *FEMS Microbiology Ecology*, **2005**, 54, 269-80	4.3	105
73	A comparison of DNA- and RNA-based clone libraries from the same marine bacterioplankton community. *FEMS Microbiology Ecology*, **2005**, 51, 341-52	4.3	86
72	Dynamics in bacterial surface properties of a natural bacterial community in the coastal North Sea during a spring phytoplankton bloom. *FEMS Microbiology Ecology*, **2005**, 53, 285-94	4.3	5
71	Modelling viral impact on bacterioplankton in the North Sea using artificial neural networks. *Environmental Microbiology*, **2005**, 7, 881-93	5.2	18
70	Bacterial dynamics in spring water of alpine karst aquifers indicates the presence of stable autochthonous microbial endokarst communities. *Environmental Microbiology*, **2005**, 7, 1248-59	5.2	100
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