Jed A Fuhrman

List of Publications by Citations

221 papers	30,291 citations	85 h-index	172 g-index
246 ext. papers	37,458 ext. citations	9.6 avg, IF	7.42 L-index

#	Paper	IF	Citations
221	Microbial biogeography: putting microorganisms on the map. *Nature Reviews Microbiology*, **2006**, 4, 102-12	22.2	1881
220	Marine viruses and their biogeochemical and ecological effects. *Nature*, **1999**, 399, 541-8	50.4	1503
219	Every base matters: assessing small subunit rRNA primers for marine microbiomes with mock communities, time series and global field samples. *Environmental Microbiology*, **2016**, 18, 1403-14	5.2	1190
218	A communal catalogue reveals Earth's multiscale microbial diversity. *Nature*, **2017**, 551, 457-463	50.4	1076
217	Thymidine incorporation as a measure of heterotrophic bacterioplankton production in marine surface waters: Evaluation and field results. *Marine Biology*, **1982**, 66, 109-120	2.5	1022
216	Beyond biogeographic patterns: processes shaping the microbial landscape. *Nature Reviews Microbiology*, **2012**, 10, 497-506	22.2	890
215	Relationships between Biovolume and Biomass of Naturally Derived Marine Bacterioplankton. *Applied and Environmental Microbiology*, **1987**, 53, 1298-303	4.8	801
214	Microbial community structure and its functional implications. *Nature*, **2009**, 459, 193-9	50.4	742
213	Use of SYBR Green I for rapid epifluorescence counts of marine viruses and bacteria. *Aquatic Microbial Ecology*, **1998**, 14, 113-118	1.1	718
212	Viral mortality of marine bacteria and cyanobacteria. *Nature*, **1990**, 343, 60-62	50.4	711
211	Improved Bacterial 16S rRNA Gene (V4 and V4-5) and Fungal Internal Transcribed Spacer Marker Gene Primers for Microbial Community Surveys. *MSystems*, **2016**, 1,	7.6	703
210	Novel major archaebacterial group from marine plankton. *Nature*, **1992**, 356, 148-9	50.4	680
209	Defining seasonal marine microbial community dynamics. *ISME Journal*, **2012**, 6, 298-308	11.9	656
208	Bacterioplankton secondary production estimates for coastal waters of british columbia, antarctica, and california. *Applied and Environmental Microbiology*, **1980**, 39, 1085-95	4.8	554
207	A latitudinal diversity gradient in planktonic marine bacteria. *Proceedings of the National Academy of Sciences of the United States of America*, **2008**, 105, 7774-8	11.5	473
206	Annually reoccurring bacterial communities are predictable from ocean conditions. *Proceedings of the National Academy of Sciences of the United States of America*, **2006**, 103, 13104-9	11.5	453
205	Minimum information about a marker gene sequence (MIMARKS) and minimum information about any (x) sequence (MIxS) specifications. *Nature Biotechnology*, **2011**, 29, 415-20	44.5	445

204	Marine bacterial, archaeal and protistan association networks reveal ecological linkages. *ISME Journal*, **2011**, 5, 1414-25	11.9	413
203	Global patterns of bacterial beta-diversity in seafloor and seawater ecosystems. *PLoS ONE*, **2011**, 6, e24570	3.7	398
202	Significance of size and nucleic acid content heterogeneity as measured by flow cytometry in natural planktonic bacteria. *Applied and Environmental Microbiology*, **1999**, 65, 4475-83	4.8	379
201	Marine microbial community dynamics and their ecological interpretation. *Nature Reviews Microbiology*, **2015**, 13, 133-46	22.2	372
200	Correlation detection strategies in microbial data sets vary widely in sensitivity and precision. *ISME Journal*, **2016**, 10, 1669-81	11.9	365
199	Phylogenetic diversity of subsurface marine microbial communities from the Atlantic and Pacific Oceans. *Applied and Environmental Microbiology*, **1993**, 59, 1294-302	4.8	325
198	Viruses and protists cause similar bacterial mortality in coastal seawater. *Limnology and Oceanography*, **1995**, 40, 1236-1242	4.8	278
197	Marine planktonic archaea take up amino acids. *Applied and Environmental Microbiology*, **2000**, 66, 4829-33	4.8	270
196	Combined microautoradiography-16S rRNA probe technique for determination of radioisotope uptake by specific microbial cell types in situ. *Applied and Environmental Microbiology*, **1999**, 65, 1746-52	4.8	245
195	Global declines in oceanic nitrification rates as a consequence of ocean acidification. *Proceedings of the National Academy of Sciences of the United States of America*, **2011**, 108, 208-13	11.5	240
194	VirFinder: a novel k-mer based tool for identifying viral sequences from assembled metagenomic data. *Microbiome*, **2017**, 5, 69	16.6	218
193	Marine viruses and global climate change. *FEMS Microbiology Reviews*, **2011**, 35, 993-1034	15.1	218
192	Virus and prokaryote enumeration from planktonic aquatic environments by epifluorescence microscopy with SYBR Green I. *Nature Protocols*, **2007**, 2, 269-76	18.8	214
191	Unlocking the potential of metagenomics through replicated experimental design. *Nature Biotechnology*, **2012**, 30, 513-20	44.5	212
190	Viruses in Marine Planktonic Systems. *Oceanography*, **1993**, 6, 51-63	2.3	212
189	Top-down controls on bacterial community structure: microbial network analysis of bacteria, T4-like viruses and protists. *ISME Journal*, **2014**, 8, 816-29	11.9	207
188	Coupling 16S-ITS rDNA clone libraries and automated ribosomal intergenic spacer analysis to show marine microbial diversity: development and application to a time series. *Environmental Microbiology*, **2005**, 7, 1466-79	5.2	205
187	Extraction from natural planktonic microorganisms of DNA suitable for molecular biological studies. *Applied and Environmental Microbiology*, **1988**, 54, 1426-9	4.8	202

186	Pronounced daily succession of phytoplankton, archaea and bacteria following a spring bloom. *Nature Microbiology*, **2016**, 1, 16005	26.6	197
185	Dominance of bacterial biomass in the Sargasso Sea and its ecological implications. *Marine Ecology - Progress Series*, **1989**, 57, 207-217	2.6	195
184	Proteorhodopsins: an array of physiological roles?. *Nature Reviews Microbiology*, **2008**, 6, 488-94	22.2	191
183	A comparison of taxon co-occurrence patterns for macro- and microorganisms. *Ecology*, **2007**, 88, 1345-53	4.6	190
182	Silicibacter pomeroyi sp. nov. and Roseovarius nubinhibens sp. nov., dimethylsulfoniopropionate-demethylating bacteria from marine environments. *International Journal of Systematic and Evolutionary Microbiology*, **2003**, 53, 1261-1269	2.2	189
181	Local similarity analysis reveals unique associations among marine bacterioplankton species and environmental factors. *Bioinformatics*, **2006**, 22, 2532-8	7.2	183
180	Widespread Archaea and novel Bacteria from the deep sea as shown by 16S rRNA gene sequences. *Marine Ecology - Progress Series*, **1997**, 150, 275-285	2.6	181
179	Minimum Information about an Uncultivated Virus Genome (MIUViG). *Nature Biotechnology*, **2019**, 37, 29-37	44.5	180
178	Microbial community structure in the North Pacific ocean. *ISME Journal*, **2009**, 3, 1374-86	11.9	170
177	Re-examination of the relationship between marine virus and microbial cell abundances. *Nature Microbiology*, **2016**, 1, 15024	26.6	169
176	Richness and diversity of bacterioplankton species along an estuarine gradient in Moreton Bay, Australia. *Applied and Environmental Microbiology*, **2004**, 70, 3425-33	4.8	169
175	Community structure of marine bacterioplankton: patterns, networks, and relationships to function. *Aquatic Microbial Ecology*, **2008**, 53, 69-81	1.1	166
174	Conservation. Ecosystem services for 2020. *Science*, **2010**, 330, 323-4	33.3	156
173	Global biogeography of SAR11 marine bacteria. *Molecular Systems Biology*, **2012**, 8, 595	12.2	146
172	Tiered approach for identification of a human fecal pollution source at a recreational beach: case study at Avalon Bay, Catalina Island, California. *Environmental Science & Technology*, **2003**, 37, 673-80	10.3	139
171	A multitrophic model to quantify the effects of marine viruses on microbial food webs and ecosystem processes. *ISME Journal*, **2015**, 9, 1352-64	11.9	138
170	Alignment-free d_2^* oligonucleotide frequency dissimilarity measure improves prediction of hosts from metagenomically-derived viral sequences. *Nucleic Acids Research*, **2017**, 45, 39-53	20.1	136
169	Bacterioplankton in the coastal euphotic zone: Distribution, activity and possible relationships with phytoplankton. *Marine Biology*, **1980**, 60, 201-207	2.5	131

168	Extended local similarity analysis (eLSA) of microbial community and other time series data with replicates. *BMC Systems Biology*, **2011**, 5 Suppl 2, S15	3.5	128
167	The ocean sampling day consortium. *GigaScience*, **2015**, 4, 27	7.6	126
166	Virus-like particle distribution and abundance in sediments and overlying waters along eutrophication gradients in two subtropical estuaries. *Limnology and Oceanography*, **2001**, 46, 1734-1746	4.8	126
165	Bacterioplankton growth in seawater: I. Growth kinetics and cellular characteristics in seawater cultures. *Marine Ecology - Progress Series*, **1984**, 18, 31-39	2.6	125
164	Time- and sediment depth-related variations in bacterial diversity and community structure in subtidal sands. *ISME Journal*, **2009**, 3, 780-91	11.9	123
163	Microzones surrounding phytoplankton form the basis for a stratified marine microbial ecosystem. *Nature*, **1985**, 316, 58-59	50.4	121
162	Seasonal and interannual variability of the marine bacterioplankton community throughout the water column over ten years. *ISME Journal*, **2015**, 9, 563-80	11.9	118
161	Global distribution and diversity of marine Verrucomicrobia. *ISME Journal*, **2012**, 6, 1499-505	11.9	118
160	Burrowing deeper into benthic nitrogen cycling: the impact of bioturbation on nitrogen fixation coupled to sulfate reduction. *Marine Ecology - Progress Series*, **2010**, 409, 1-15	2.6	117
159	Millions of reads, thousands of taxa: microbial community structure and associations analyzed via marker genes. *FEMS Microbiology Reviews*, **2016**, 40, 686-700	15.1	115
158	Enteroviruses detected by reverse transcriptase polymerase chain reaction from the coastal waters of Santa Monica Bay, California: low correlation to bacterial indicator levels. *Hydrobiologia*, **2001**, 460, 175-184	2.4	109
157	Close coupling between release and uptake of dissolved free amino acids in seawater studied by an isotope dilution approach. *Marine Ecology - Progress Series*, **1987**, 37, 45-52	2.6	109
156	Multitiered approach using quantitative PCR to track sources of fecal pollution affecting Santa Monica Bay, California. *Applied and Environmental Microbiology*, **2006**, 72, 1604-12	4.8	108
155	Roles of viral infection in organic particle flux. *Marine Ecology - Progress Series*, **1991**, 69, 133-142	2.6	106
154	Bacterial viruses in coastal seawater: lytic rather than lysogenic production. *Marine Ecology - Progress Series*, **1994**, 114, 35-45	2.6	106
153	Influence of Method on the Apparent Size Distribution of Bacterioplankton Cells: Epifluorescence Microscopy Compared to Scanning Electron Microscopy. *Marine Ecology - Progress Series*, **1981**, 5, 103-106	2.6	104
152	Marine bacterial microdiversity as revealed by internal transcribed spacer analysis. *Aquatic Microbial Ecology*, **2005**, 41, 15-23	1.1	100
151	Microbial uptake of dissolved organic matter in Mcmurdo Sound, Antarctica. *Marine Biology*, **1981**, 61, 89-94	2.5	99

150	Temporal variability and coherence of euphotic zone bacterial communities over a decade in the Southern California Bight. *ISME Journal*, **2013**, 7, 2259-73	11.9	98
149	Short-term observations of marine bacterial and viral communities: patterns, connections and resilience. *ISME Journal*, **2013**, 7, 1274-85	11.9	97
148	Identifying viruses from metagenomic data using deep learning. *Quantitative Biology*, **2020**, 8, 64-77	3.9	96
147	Radioactively labeling of natural assemblages of bacterioplankton for use in trophic studies1. *Limnology and Oceanography*, **1980**, 25, 172-181	4.8	96
146	Bacterioplankton Roles in Cycling of Organic Matter: The Microbial Food Web **1992**, 361-383		94
145	Do bacteria-sized marine eukaryotes consume significant bacterial production?. *Science*, **1984**, 224, 1257-60	393	94
144	Bacterial secondary production in freshwater measured by(3)H-thymidine incorporation method. *Microbial Ecology*, **1982**, 8, 101-13	4.4	94
143	Ecological dynamics and co-occurrence among marine phytoplankton, bacteria and myoviruses shows microdiversity matters. *ISME Journal*, **2017**, 11, 1614-1629	11.9	92
142	Dependent coupling of inorganic and organic nitrogen uptake and regeneration in the plume of the Chesapeake Bay estuary and its regulation by large heterotrophs. *Limnology and Oceanography*, **1991**, 36, 895-909	4.8	92
141	Wide-ranging abundances of aerobic anoxygenic phototrophic bacteria in the world ocean revealed by epifluorescence microscopy and quantitative PCR. *Limnology and Oceanography*, **2005**, 50, 620-628	4.8	86
140	Rapid detection of enteroviruses in small volumes of natural waters by real-time quantitative reverse transcriptase PCR. *Applied and Environmental Microbiology*, **2005**, 71, 4523-30	4.8	86
139	Ecosystem services, targets, and indicators for the conservation and sustainable use of biodiversity. *Frontiers in Ecology and the Environment*, **2011**, 9, 512-520	5.5	85
138	Bacterial diversity in shallow oligotrophic marine benthos and overlying waters: effects of virus infection, containment, and nutrient enrichment. *Microbial Ecology*, **2003**, 46, 322-36	4.4	85
137	Nanomolar concentrations and rapid turnover of dissolved free amino acids in seawater: agreement between chemical and microbiological measurements. *Marine Ecology - Progress Series*, **1986**, 33, 237-242	2.6	84
136	Efficient statistical significance approximation for local similarity analysis of high-throughput time series data. *Bioinformatics*, **2013**, 29, 230-7	7.2	83
135	Population ecology of nitrifying archaea and bacteria in the Southern California Bight. *Environmental Microbiology*, **2010**, 12, 1282-92	5.2	80
134	Improved strategy for comparing microbial assemblage fingerprints. *Microbial Ecology*, **2006**, 51, 147-53	4.4	78
133	Rapid virus production and removal as measured with fluorescently labeled viruses as tracers. *Applied and Environmental Microbiology*, **2000**, 66, 3790-7	4.8	77

132	Viriobenthos production and virioplankton sorptive scavenging by suspended sediment particles in coastal and pelagic waters. *Microbial Ecology*, **2003**, 46, 337-47	4.4	76
131	Accurate genome relative abundance estimation based on shotgun metagenomic reads. *PLoS ONE*, **2011**, 6, e27992	3.7	75
130	Viral effects on bacterial community composition in marine plankton microcosms. *Aquatic Microbial Ecology*, **2004**, 34, 117-127	1.1	74
129	Biological considerations in the measurement of dissolved free amino acids in seawater and implications for chemical and microbiological studies. *Marine Ecology - Progress Series*, **1985**, 25, 13-21	2.6	74
128	Control of marine bacterioplankton populations: Measurement and significance of grazing. *Hydrobiologia*, **1988**, 159, 51-62	2.4	72
127	COCACOLA: binning metagenomic contigs using sequence COmposition, read CoverAge, CO-alignment and paired-end read LinkAge. *Bioinformatics*, **2017**, 33, 791-798	7.2	70
126	Viral influence on aquatic bacterial communities. *Biological Bulletin*, **2003**, 204, 192-5	1.5	70
125	Diel variations in bacterioplankton, phytoplankton, and related parameters in the Southern California Bight. *Marine Ecology - Progress Series*, **1985**, 27, 9-20	2.6	70
124	Temporal and spatial scales of variation in bacterioplankton assemblages of oligotrophic surface waters. *Marine Ecology - Progress Series*, **2006**, 311, 67-77	2.6	70
123	Performance of viruses and bacteriophages for fecal source determination in a multi-laboratory, comparative study. *Water Research*, **2013**, 47, 6929-43	12.5	68
122	Evidence of Trichodesmium viral lysis and potential significance for biogeochemical cycling in the oligotrophic ocean. *Aquatic Microbial Ecology*, **2004**, 36, 1-8	1.1	67
121	Breakdown and microbial uptake of marine viruses and other lysis products. *Aquatic Microbial Ecology*, **1999**, 20, 1-11	1.1	66
120	Co-occurrence patterns for abundant marine archaeal and bacterial lineages in the deep chlorophyll maximum of coastal California. *ISME Journal*, **2011**, 5, 1077-85	11.9	65
119	Diversity and biogeography of bacterial assemblages in surface sediments across the San Pedro Basin, Southern California Borderlands. *Environmental Microbiology*, **2007**, 9, 923-33	5.2	64
118	Remarkable heterogeneity in meso- and bathypelagic bacterioplankton assemblage composition. *Limnology and Oceanography*, **2006**, 51, 1274-1283	4.8	62
117	Bacterivory in seawater studied with the use of inert fluorescent particles1. *Limnology and Oceanography*, **1986**, 31, 420-426	4.8	62
116	Characterization of marine prokaryotic communities via DNA and RNA. *Microbial Ecology*, **1994**, 28, 133-45	4.4	60
115	Dissolved free amino acids in the Sargasso Sea: uptake and respiration rates, turnover times, and concentrations. *Marine Ecology - Progress Series*, **1991**, 70, 189-199	2.6	59

114	Rapid ammonium cycling and concentration-dependent partitioning of ammonium and phosphate: Implications for carbon transfer in planktonic communities. *Limnology and Oceanography*, **1990**, 35, 424-433	4.8	58
113	Beta diversity of marine bacteria depends on temporal scale. *Ecology*, **2013**, 94, 1898-904	4.6	57
112	Cross-depth analysis of marine bacterial networks suggests downward propagation of temporal changes. *ISME Journal*, **2015**, 9, 2573-86	11.9	57
111	A comparative study of culture-independent, library-independent genotypic methods of fecal source tracking. *Journal of Water and Health*, **2003**, 1, 181-194	2.2	57
110	Spatial and temporal variation of natural bacterioplankton assemblages studied by total genomic DNA cross-hybridization. *Limnology and Oceanography*, **1991**, 36, 1277-1287	4.8	57
109	Discovery of several novel, widespread, and ecologically distinct marine Thaumarchaeota viruses that encode amoC nitrification genes. *ISME Journal*, **2019**, 13, 618-631	11.9	57
108	Seasonality and monthly dynamics of marine myovirus communities. *Environmental Microbiology*, **2012**, 14, 2171-83	5.2	56
107	Origins of Dissolved Organic Matter in Southern California Coastal Waters: Experiments on the Role of Zooplankton. *Marine Ecology - Progress Series*, **1981**, 6, 149-159	2.6	56
106	Possible biogeochemical consequences of ocean fertilization. *Limnology and Oceanography*, **1991**, 36, 1951-1959	4.8	54
105	Whither or wither geomicrobiology in the era of @ommunity metagenomicsQ*Nature Reviews Microbiology*, **2005**, 3, 572-8	22.2	53
104	Photosynthetic pigments in the ciliate Laboea strobila from Long Island Sound, USA. *Journal of Plankton Research*, **1986**, 8, 317-327	2.2	53
103	Mortality of marine bacteria in response to enrichments of the virus size fraction from seawater. *Marine Ecology - Progress Series*, **1992**, 87, 283-293	2.6	52
102	Spatial and vertical biogeography of coral reef sediment bacterial and diazotroph communities. *Marine Ecology - Progress Series*, **2006**, 306, 79-86	2.6	52
101	Marine microbial diversity studied via 16S rRNA sequences: cloning results from coastal waters and counting of native archaea with fluorescent single cell probes. *Aquatic Ecology*, **1998**, 32, 3-15	1.9	50
100	Dissolved free amino acid cycling in an estuarine outflow plume. *Marine Ecology - Progress Series*, **1990**, 66, 197-203	2.6	49
99	Bacterial and Archaeal Community Structure and its Patterns45-90		46
98	Imperfect retention of natural bacterioplankton cells by glass fiber filters. *Marine Ecology - Progress Series*, **1995**, 119, 285-290	2.6	46
97	Mechanoreception in calanoid copepods. *Marine Biology*, **1986**, 90, 529-535	2.5	45

96	Genome and epigenome of a novel marine Thaumarchaeota strain suggest viral infection, phosphorothioation DNA modification and multiple restriction systems. *Environmental Microbiology* , **2017**, 19, 2434-2452	5.2	44
95	Diel changes in bacterial biomass and growth rates in coastal environments, determined by means of thymidine incorporation into DNA, frequency of dividing cells (FDC), and microautoradiography. *Marine Ecology - Progress Series*, **1984**, 17, 227-235	2.6	44
94	Production, consumption and nutrient cycling in a laboratory mesocosm. *Marine Ecology - Progress Series*, **1988**, 42, 39-52	2.6	43
93	Short-term dynamics and interactions of marine protist communities during the spring-summer transition. *ISME Journal*, **2018**, 12, 1907-1917	11.9	42
92	Macroecological patterns of marine bacteria on a global scale. *Journal of Biogeography*, **2013**, 40, 800-811	4.1	42
91	Dynamic marine viral infections and major contribution to photosynthetic processes shown by spatiotemporal picoplankton metatranscriptomes. *Nature Communications*, **2019**, 10, 1169	17.4	41
90	Microbial rhodopsins are major contributors to the solar energy captured in the sea. *Science Advances*, **2019**, 5, eaaw8855	14.3	41
89	Covariation of viral parameters with bacterial assemblage richness and diversity in the water column and sediments. *Deep-Sea Research Part I: Oceanographic Research Papers*, **2007**, 54, 811-830	2.5	40
88	Viral impacts upon marine bacterioplankton assemblage structure. *Journal of the Marine Biological Association of the United Kingdom*, **2006**, 86, 577-589	1.1	40
87	Impact of light on marine bacterioplankton community structure. *Aquatic Microbial Ecology*, **2005**, 39, 235-245	1.1	40
86	Long-term nitrogen and phosphorus fertilization effects on N2 fixation rates and nifH gene community patterns in mangrove sediments. *Marine Ecology*, **2012**, 33, 117-127	1.4	38
85	Genomics and physiology of a marine flavobacterium encoding a proteorhodopsin and a xanthorhodopsin-like protein. *PLoS ONE*, **2013**, 8, e57487	3.7	38
84	Use of 13N as tracer for bacterial and algal uptake of ammonium from sea-water. *Marine Ecology - Progress Series*, **1988**, 45, 271-278	2.6	38
83	Effects of viral enrichment on the mortality and growth of heterotrophic bacterioplankton. *Aquatic Microbial Ecology*, **1999**, 18, 1-13	1.1	37
82	Structure of microbial communities in ethanol biofilters. *Chemical Engineering Journal*, **2005**, 113, 135-143	4.7	36
81	Zooplankton induced changes in dissolved free amino acids and in production rates of freshwater bacteria. *Microbial Ecology*, **1986**, 12, 247-58	4.4	36
80	Dynamics and interactions of highly resolved marine plankton via automated high-frequency sampling. *ISME Journal*, **2018**, 12, 2417-2432	11.9	35
79	CAFE: aCcelerated Alignment-FrEe sequence analysis. *Nucleic Acids Research*, **2017**, 45, W554-W559	20.1	34

78	Taxon Disappearance from Microbiome Analysis Reinforces the Value of Mock Communities as a Standard in Every Sequencing Run. *MSystems*, **2018**, 3,	7.6	34
77	Proteorhodopsin light-enhanced growth linked to vitamin-B1 acquisition in marine Flavobacteria. *ISME Journal*, **2016**, 10, 1102-12	11.9	33
76	Cycling of organic nitrogen in marine plankton communities studied in enclosed water columns. *Marine Biology*, **1980**, 59, 15-21	2.5	32
75	Clearance of bacteria-sized particles by natural populations of nanoplankton in the Chesapeake Bay outflow plume. *Marine Ecology - Progress Series*, **1988**, 42, 199-206	2.6	32
74	Centimeter scale vertical heterogeneity in bacteria and chlorophyll a. *Marine Ecology - Progress Series*, **1989**, 54, 141-148	2.6	31
73	Prokaryotic and viral diversity patterns in marine plankton. *Ecological Research*, **2002**, 17, 183-194	1.9	30
72	Measurement of Bacterioplankton Growth in the Sea and Its Regulation by Environmental Conditions **1984**, 179-196		30
71	Strong seasonality and interannual recurrence in marine myovirus communities. *Applied and Environmental Microbiology*, **2013**, 79, 6253-9	4.8	29
70	Species composition shift of confined bacterioplankton studied at the level of community DNA. *Marine Ecology - Progress Series*, **1991**, 79, 195-201	2.6	29
69	Long-term stability and Red Queen-like strain dynamics in marine viruses. *Nature Microbiology*, **2020**, 5, 265-271	26.6	29
68	Marine archaeal dynamics and interactions with the microbial community over 5 years from surface to seafloor. *ISME Journal*, **2017**, 11, 2510-2525	11.9	28
67	Prediction of virus-host infectious association by supervised learning methods. *BMC Bioinformatics*, **2017**, 18, 60	3.6	26
66	Microbiological water quality at non-human influenced reference beaches in southern California during wet weather. *Marine Pollution Bulletin*, **2010**, 60, 500-8	6.7	26
65	Dilution reveals how viral lysis and grazing shape microbial communities. *Limnology and Oceanography*, **2016**, 61, 889-905	4.8	24
64	Viral and bacterial assemblage covariance in oligotrophic waters of the West Florida Shelf (Gulf of Mexico). *Journal of the Marine Biological Association of the United Kingdom*, **2006**, 86, 591-603	1.1	24
63	The vertical distribution and diversity of marine bacteriophage at a station off Southern California. *Microbial Ecology*, **2003**, 45, 399-410	4.4	24
62	A network-based integrated framework for predicting virus-prokaryote interactions. *NAR Genomics and Bioinformatics*, **2020**, 2, lqaa044	3.7	23
61	Characterization of lysogens in bacterioplankton assemblages of the southern California borderland. *Microbial Ecology*, **2007**, 53, 631-8	4.4	23

60	Diversity of virus-like agents killing Microcystis aeruginosa in a hyper-eutrophic pond. *Journal of Plankton Research*, **2006**, 28, 407-412	2.2	23
59	Mosaic patterns of B-vitamin synthesis and utilization in a natural marine microbial community. *Environmental Microbiology*, **2018**, 20, 2809-2823	5.2	22
58	Multi-year dynamics of fine-scale marine cyanobacterial populations are more strongly explained by phage interactions than abiotic, bottom-up factors. *Environmental Microbiology*, **2019**, 21, 2948-2963	5.2	21
57	Community structure and function in prokaryotic marine plankton. *Antonie Van Leeuwenhoek*, **2002**, 81, 521-7	2.1	21
56	Does adenine incorporation into nucleic acids measure total microbial production?1. *Limnology and Oceanography*, **1986**, 31, 627-636	4.8	21
55	Growth efficiencies of freshwater bacterioplankton. *Microbial Ecology*, **1992**, 24, 145-60	4.4	20
54	Marine alga Platymonas sp. accumulates silicon without apparent requirement. *Nature*, **1978**, 272, 244-246	50.4	20
53	Influence of Amazon and Orinoco offshore surface water plumes on oligotrophic bacterioplankton diversity in the west tropical Atlantic. *Aquatic Microbial Ecology*, **2006**, 43, 11-22	1.1	18
52	Estimating maximal microbial growth rates from cultures, metagenomes, and single cells via codon usage patterns. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118,	11.5	18
51	A dynamic programming algorithm for binning microbial community profiles. *Bioinformatics*, **2006**, 22, 1508-14	7.2	17
50	Systematic, continental scale temporal monitoring of marine pelagic microbiota by the Australian Marine Microbial Biodiversity Initiative. *Scientific Data*, **2018**, 5, 180130	8.2	17
49	Planktonic food web structure at a coastal time-series site: I. Partitioning of microbial abundances and carbon biomass. *Deep-Sea Research Part I: Oceanographic Research Papers*, **2017**, 121, 14-29	2.5	16
48	Characterizing Chemoautotrophy and Heterotrophy in Marine Archaea and Bacteria With Single-Cell Multi-isotope NanoSIP. *Frontiers in Microbiology*, **2019**, 10, 2682	5.7	16
47	Adaptations of bacteria to marine subsurface waters studied by temperature response. *Marine Ecology - Progress Series*, **1983**, 13, 95-98	2.6	15
46	Distribution of Extracellular Flavins in a Coastal Marine Basin and Their Relationship to Redox Gradients and Microbial Community Members. *Environmental Science & Technology*, **2018**, 52, 12265-12274	10.3	15
45	A comparative study of culture-independent, library-independent genotypic methods of fecal source tracking. *Journal of Water and Health*, **2003**, 1, 181-94	2.2	15
44	Gyrotaxis as a new mechanism for generating spatial heterogeneity and migration in microplankton. *Limnology and Oceanography*, **1990**, 35, 123-130	4.8	14
43	Loss rate of an oligotrophic bacterial assemblage as measured by H-thymidine and PO_(4): good agreement and near-balance with production. *Aquatic Microbial Ecology*, **1996**, 10, 29-36	1.1	14

42	Mesoscale and seasonal variability of heterotrophic nanoflagellate abundance in an estuarine outflow plume. *Marine Ecology - Progress Series*, **1990**, 61, 207-213	2.6	14
41	Optimizing genome assembly from PCR-amplified metagenomes. *PeerJ*, **2019**, 7, e6902	3.1	14
40	The Earth Microbiome Project: The Meeting Report for the 1st International Earth Microbiome Project Conference, Shenzhen, China, June 13th-15th 2011. *Standards in Genomic Sciences*, **2011**, 5, 243-247		13
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