Mathias Middelboe

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97 papers	3,685 citations	38 h-index	57 g-index
106 ext. papers	4,621 ext. citations	5 avg, IF	5.51 L-index

#	Paper	IF	Citations
97	Global trends in the fluorescence characteristics and distribution of marine dissolved organic matter. *Marine Chemistry*, **2011**, 126, 139-148	3.7	244
96	Global-scale processes with a nanoscale drive: the role of marine viruses. *ISME Journal*, **2008**, 2, 575-8	11.9	180
95	High rates of microbial carbon turnover in sediments in the deepest oceanic trench on Earth. *Nature Geoscience*, **2013**, 6, 284-288	18.3	176
94	Re-examination of the relationship between marine virus and microbial cell abundances. *Nature Microbiology*, **2016**, 1, 15024	26.6	169
93	Large variabilities in host strain susceptibility and phage host range govern interactions between lytic marine phages and their Flavobacterium hosts. *Applied and Environmental Microbiology*, **2007**, 73, 6730-9	4.8	144
92	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
91	Isolation and characterization of bacteriophages infecting the fish pathogen Flavobacterium psychrophilum. *Applied and Environmental Microbiology*, **2008**, 74, 4070-8	4.8	109
90	Viral lysis of bacteria: an important source of dissolved amino acids and cell wall compounds. *Journal of the Marine Biological Association of the United Kingdom*, **2006**, 86, 605-612	1.1	103
89	Bacteriophages drive strain diversification in a marine Flavobacterium: implications for phage resistance and physiological properties. *Environmental Microbiology*, **2009**, 11, 1971-82	5.2	88
88	Quorum Sensing Determines the Choice of Antiphage Defense Strategy in Vibrio anguillarum. *MBio* , **2015**, 6, e00627	7.8	76
87	Virus-driven nitrogen cycling enhances phytoplankton growth. *Aquatic Microbial Ecology*, **2012**, 66, 41-46	1.1	70
86	Virus and bacteria dynamics of a coastal sediment: Implication for benthic carbon cycling. *Limnology and Oceanography*, **2004**, 49, 2073-2081	4.8	67
85	Benthic carbon mineralization in hadal trenches: Assessment by in situ O2 microprofile measurements. *Deep-Sea Research Part I: Oceanographic Research Papers*, **2016**, 116, 276-286	2.5	66
84	Viral lysis of Phaeocystis pouchetii: implications for algal population dynamics and heterotrophic C, N and P cycling. *ISME Journal*, **2009**, 3, 430-41	11.9	62
83	Tracing the long-term microbial production of recalcitrant fluorescent dissolved organic matter in seawater. *Geophysical Research Letters*, **2014**, 41, 2481-2488	4.9	60
82	Distribution of viruses and bacteria in relation to diagenetic activity in an estuarine sediment. *Limnology and Oceanography*, **2003**, 48, 1447-1456	4.8	58
81	Antagonistic coevolution of marine planktonic viruses and their hosts. *Annual Review of Marine Science*, **2014**, 6, 393-414	15.4	56

80	Diversity of Flavobacterium psychrophilum and the potential use of its phages for protection against bacterial cold water disease in salmonids. *Journal of Fish Diseases*, **2012**, 35, 193-201	2.6	55
79	Distribution of oxygen in surface sediments from central Sagami Bay, Japan: In situ measurements by microelectrodes and planar optodes. *Deep-Sea Research Part I: Oceanographic Research Papers*, **2005**, 52, 1974-1987	2.5	54
78	Bacteriophage resistance mechanisms in the fish pathogen Flavobacterium psychrophilum: linking genomic mutations to changes in bacterial virulence factors. *Applied and Environmental Microbiology*, **2015**, 81, 1157-67	4.8	53
77	Viral lysis of Micromonas pusilla: impacts on dissolved organic matter production and composition. *Biogeochemistry*, **2013**, 116, 231-240	3.8	52
76	Big Impact of the Tiny: Bacteriophage-Bacteria Interactions in Biofilms. *Trends in Microbiology*, **2019**, 27, 739-752	12.4	50
75	Viruses in freshwater ecosystems: an introduction to the exploration of viruses in new aquatic habitats. *Freshwater Biology*, **2008**, 53, 1069-1075	3.1	47
74	Widespread distribution of prophage-encoded virulence factors in marine Vibrio communities. *Scientific Reports*, **2018**, 8, 9973	4.9	47
73	Viral lysis of marine bacterioplankton: Implications for organic matter cycling and bacterial clonal composition. *Ophelia*, **2002**, 56, 57-68		45
72	Bacterioplankton Growth Yield: Seasonal Variations and Coupling to Substrate Lability and beta-Glucosidase Activity. *Applied and Environmental Microbiology*, **1993**, 59, 3916-21	4.8	45
71	Vibriophages and their interactions with the fish pathogen Vibrio anguillarum. *Applied and Environmental Microbiology*, **2014**, 80, 3128-40	4.8	44
70	Recent sediment dynamics in hadal trenches: Evidence for the influence of higher-frequency (tidal, near-inertial) fluid dynamics. *Deep-Sea Research Part I: Oceanographic Research Papers*, **2014**, 90, 125-138	2.5	43
69	Vibriophages Differentially Influence Biofilm Formation by Vibrio anguillarum Strains. *Applied and Environmental Microbiology*, **2015**, 81, 4489-97	4.8	43
68	Global occurrence and heterogeneity of the Roseobacter-clade species Ruegeria mobilis. *ISME Journal*, **2017**, 11, 569-583	11.9	42
67	Cultivated single-stranded DNA phages that infect marine Bacteroidetes prove difficult to detect with DNA-binding stains. *Applied and Environmental Microbiology*, **2012**, 78, 892-4	4.8	42
66	Viral and bacterial production in the North Water: in situ measurements, batch-culture experiments and characterization and distribution of a virus–host system. *Deep-Sea Research Part II: Topical Studies in Oceanography*, **2002**, 49, 5063-5079	2.3	42
65	Bacteriophage Interactions with Marine Pathogenic Vibrios: Implications for Phage Therapy. *Antibiotics*, **2018**, 7,	4.9	41
64	Viral abundance and genome size distribution in the sediment and water column of marine and freshwater ecosystems. *FEMS Microbiology Ecology*, **2007**, 60, 397-410	4.3	41
63	Comparative Genome Analyses of Strains Reveal a Link with Pathogenicity Traits. *MSystems*, **2017**, 2,	7.6	39

62	Viral abundance and activity in the deep sub-seafloor biosphere. *Aquatic Microbial Ecology*, **2011**, 63, 1-8	1.1	38
61	Spatial distribution and activity of viruses in the deep-sea sediments of Sagami Bay, Japan. *Deep-Sea Research Part I: Oceanographic Research Papers*, **2006**, 53, 1-13	2.5	38
60	P. aeruginosa flow-cell biofilms are enhanced by repeated phage treatments but can be eradicated by phage-ciprofloxacin combination. *Pathogens and Disease*, **2019**, 77,	4.2	33
59	Influence of bacterial uptake on deep-ocean dissolved organic carbon. *Global Biogeochemical Cycles* , **2002**, 16, 74-1-74-12	5.9	33
58	Dispersal and survival of Flavobacterium psychrophilum phages in vivo in rainbow trout and in vitro under laboratory conditions: implications for their use in phage therapy. *Applied and Environmental Microbiology*, **2013**, 79, 4853-61	4.8	32
57	Stumbling across the Same Phage: Comparative Genomics of Widespread Temperate Phages Infecting the Fish Pathogen Vibrio anguillarum. *Viruses*, **2017**, 9,	6.2	31
56	Viral activity along a trophic gradient in continental margin sediments off central Chile. *Marine Biology Research*, **2006**, 2, 41-51	1	30
55	Carbon Bioavailability in a High Arctic Fjord Influenced by Glacial Meltwater, NE Greenland. *Frontiers in Marine Science*, **2017**, 4,	4.5	29
54	Separation of free virus particles from sediments in aquatic systems74-81		29
53	Bacterial and viral dynamics during a mass coral spawning period on the Great Barrier Reef. *Aquatic Microbial Ecology*, **2008**, 50, 209-220	1.1	28
52	Increased acidification has a profound effect on the interactions between the cyanobacterium Synechococcus sp. WH7803 and its viruses. *FEMS Microbiology Ecology*, **2014**, 87, 133-41	4.3	27
51	Utilization of marine sedimentary dissolved organic nitrogen by native anaerobic bacteria. *Limnology and Oceanography*, **2002**, 47, 1712-1722	4.8	27
50	Isolation and life cycle characterization of lytic viruses infecting heterotrophic bacteria and cyanobacteria118-123		27
49	Detection and quantification of Flavobacterium psychrophilum-specific bacteriophages in vivo in rainbow trout upon oral administration: implications for disease control in aquaculture. *Applied and Environmental Microbiology*, **2014**, 80, 7683-93	4.8	26
48	Viral dynamics in a coastal sediment: seasonal pattern, controlling factors and relations to the pelagic-benthic coupling. *Marine Biology Research*, **2008**, 4, 165-179	1	26
47	Comparative Genome Analysis Provides Insights into the Pathogenicity of Flavobacterium psychrophilum. *PLoS ONE*, **2016**, 11, e0152515	3.7	26
46	Exploring the Effect of Phage Therapy in Preventing Infections in Cod and Turbot Larvae. *Antibiotics*, **2018**, 7,	4.9	26
45	High cell densities favor lysogeny: induction of an H20 prophage is repressed by quorum sensing and enhances biofilm formation in Vibrio anguillarum. *ISME Journal*, **2020**, 14, 1731-1742	11.9	24

44	Counting viruses and bacteria in photosynthetic microbial mats. *Applied and Environmental Microbiology*, **2015**, 81, 2149-55	4.8	23
43	Phage defense mechanisms and their genomic and phenotypic implications in the fish pathogen Vibrio anguillarum. *FEMS Microbiology Ecology*, **2019**, 95,	4.3	23
42	Diversity and geographical distribution of Flavobacterium psychrophilum isolates and their phages: patterns of susceptibility to phage infection and phage host range. *Microbial Ecology*, **2014**, 67, 748-57	4.4	20
41	Predation and selection for antibiotic resistance in natural environments. *Evolutionary Applications*, **2016**, 9, 427-34	4.8	19
40	Isolation and characterization of a N4-like lytic bacteriophage infecting Vibrio splendidus, a pathogen of fish and bivalves. *PLoS ONE*, **2017**, 12, e0190083	3.7	18
39	Genomic structure of bacteriophage 6H and its distribution as prophage in Flavobacterium psychrophilum strains. *FEMS Microbiology Letters*, **2014**, 351, 51-58	2.9	18
38	Seasonal dynamics of autotrophic and heterotrophic plankton metabolism and PCO2 in a subarctic Greenland fjord. *Limnology and Oceanography*, **2014**, 59, 1764-1778	4.8	18
37	Effect of Bacteriophages on the Growth of Flavobacterium psychrophilum and Development of Phage-Resistant Strains. *Microbial Ecology*, **2016**, 71, 845-59	4.4	18
36	Phenotypic and Genetic Predictors of Pathogenicity and Virulence in. *Frontiers in Microbiology*, **2019** , 10, 1711	5.7	16
35	Marine Viruses: Community Dynamics, Diversity and Impact on Microbial Processes443-479		16
34	Occurrence and Bacterial Cycling of d Amino Acid Isomers in an Estuarine Environment. *Biogeochemistry*, **2006**, 81, 77-94	3.8	16
33	Changes in the composition and bioavailability of dissolved organic matter during sea ice formation. *Limnology and Oceanography*, **2015**, 60, 817-830	4.8	15
32	Heterogeneous distribution of prokaryotes and viruses at the microscale in a tidal sediment. *Aquatic Microbial Ecology*, **2013**, 69, 183-192	1.1	15
31	Microscale spatial distributions of microbes and viruses in intertidal photosynthetic microbial mats. *SpringerPlus*, **2015**, 4, 239		14
30	Bacterial carbon cycling in a subarctic fjord: A seasonal study on microbial activity, growth efficiency, and virus-induced mortality in Kobbefjord, Greenland. *Limnology and Oceanography*, **2012**, 57, 1732-1742	4.8	13
29	Quantification of Viral and Prokaryotic Production Rates in Benthic Ecosystems: A Methods Comparison. *Frontiers in Microbiology*, **2016**, 7, 1501	5.7	13
28	Genomic diversity of bacteriophages infecting the fish pathogen Flavobacterium psychrophilum. *FEMS Microbiology Letters*, **2016**, 363,	2.9	12
27	Disruption of photoautotrophic intertidal mats by filamentous fungi. *Environmental Microbiology*, **2015**, 17, 2910-21	5.2	11

26	Combining probiotic Phaeobacter inhibens DSM17395 and broad-host-range vibriophage KVP40 against fish pathogenic vibrios. *Aquaculture*, **2019**, 513, 734415	4.4	9
25	Large Phenotypic and Genetic Diversity of Prophages Induced from the Fish Pathogen. *Viruses*, **2019**, 11,	6.2	9
24	Production and transformation of dissolved neutral sugars and amino acids by bacteria in seawater. *Biogeosciences*, **2014**, 11, 5349-5363	4.6	9
23	Biological transformation of Arctic dissolved organic matter in a NE Greenland fjord. *Limnology and Oceanography*, **2019**, 64, 1014-1033	4.8	8
22	Spatial variability of prokaryotic and viral abundances in the Kermadec and Atacama Trench regions. *Limnology and Oceanography*, **2021**, 66, 2095-2109	4.8	8
21	Beyond Cholera: Characterization of -Encoding Filamentous Phages in the Marine Fish Pathogen. *Viruses*, **2020**, 12,	6.2	7
20	Phage-Mediated Control of in Aquaculture: Experiments to Compare Delivery Methods. *Frontiers in Microbiology*, **2021**, 12, 628309	5.7	7
19	Autofluorescence imaging system to discriminate and quantify the distribution of benthic cyanobacteria and diatoms. *Limnology and Oceanography: Methods*, **2015**, 13, e10016	2.6	6
18	Draft Genome Sequences of Six Vibrio diazotrophicus Strains Isolated from Deep Subsurface Sediments of the Baltic Sea. *Genome Announcements*, **2018**, 6,		6
17	Coupling biogeochemical process rates and metagenomic blueprints of coastal bacterial assemblages in the context of environmental change. *Environmental Microbiology*, **2018**, 20, 3083-3099	5.2	5
16	Proteinase production in Pseudomonas fluorescens ON2 is affected by carbon sources and allows surface-attached but not planktonic cells to utilize protein for growth in lake water. *FEMS Microbiology Ecology*, **2012**, 80, 168-78	4.3	5
15	Low virus to prokaryote ratios in the cold: benthic viruses and prokaryotes in a subpolar marine ecosystem (Hornsund, Svalbard). *International Microbiology*, **2013**, 16, 45-52	3	5
14	Dissecting the role of viruses in marine nutrient cycling: bacterial uptake of D- and L-amino acids released by viral lysis. *Aquatic Microbial Ecology*, **2014**, 73, 235-243	1.1	4
13	Complete Genome Sequence of Vibrio anguillarum Nontailed Bacteriophage NO16. *Microbiology Resource Announcements*, **2019**, 8,	1.3	3
12	Oceanography and the base of the pelagic food web in the southern Indian Ocean. *Journal of Plankton Research*, **2015**, 37, 571-583	2.2	3
11	Comparison of Delivery Methods in Phage Therapy against Infections in Rainbow Trout. *Antibiotics*, **2021**, 10,	4.9	3
10	Effects of allochthonous dissolved organic matter input on microbial composition and nitrogen-cycling genes at two contrasting estuarine sites. *FEMS Microbiology Ecology*, **2019**, 95,	4.3	2
9	Chapter Eleven. Microbial Disease in the Sea: Effects of Viruses on Carbon and Nutrient Cycling **2010**, 242-259		2

8	Prevalence of genetically similar Flavobacterium columnare phages across aquaculture environments reveals a strong potential for pathogen control		2
7	Genomic Analysis of Provides Insight on Its Virulence Factors and Phylogeny and Highlights the Potential of Reverse Vaccinology in Aquaculture. *Microorganisms*, **2021**, 9,	4.9	2
6	Bacteriophage Resistance Affects Flavobacterium columnare Virulence Partly via Mutations in Genes Related to Gliding Motility and the Type IX Secretion System. *Applied and Environmental Microbiology*, **2021**, 87, e0081221	4.8	2
5	Bacteriophages as Biocontrol Agents for Biofilms and Rainbow Trout Infections. *Phage*, **2020**, 1, 198-204	1.8	1
4	Genome-informed approach to identify genetic determinants of Flavobacterium psychrophilum phage susceptibility. *Environmental Microbiology*, **2021**, 23, 4185-4199	5.2	1
3	Bacteriophages: Emerging Applications in Medicine, Food, and Biotechnology. *Phage*, **2020**, 1, 75-82	1.8	0
2	Dynamics of Baltic Sea phages driven by environmental changes. *Environmental Microbiology*, **2021**, 23, 4576-4594	5.2	0
1	In Vitro Evolution of Specific Phages Infecting the Fish Pathogen Flavobacterium psychrophilum. *Phage*, **2022**, 3, 28-37	1.8	