

# Mathias Middelboe

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	In Vitro Evolution of Specific Phages Infecting the Fish Pathogen <i>Flavobacterium psychrophilum</i> . <i>Phage</i> , <b>2022</b> , 3, 28-37	1.8	
96	Phage-Mediated Control of in Aquaculture: Experiments to Compare Delivery Methods. <i>Frontiers in Microbiology</i> , <b>2021</b> , 12, 628309	5.7	7
95	Genome-informed approach to identify genetic determinants of <i>Flavobacterium psychrophilum</i> phage susceptibility. <i>Environmental Microbiology</i> , <b>2021</b> , 23, 4185-4199	5.2	1
94	Genomic Analysis of Provides Insight on Its Virulence Factors and Phylogeny and Highlights the Potential of Reverse Vaccinology in Aquaculture. <i>Microorganisms</i> , <b>2021</b> , 9,	4.9	2
93	Bacteriophage Resistance Affects <i>Flavobacterium columnare</i> Virulence Partly via Mutations in Genes Related to Gliding Motility and the Type IX Secretion System. <i>Applied and Environmental Microbiology</i> , <b>2021</b> , 87, e0081221	4.8	2
92	Comparison of Delivery Methods in Phage Therapy against Infections in Rainbow Trout. <i>Antibiotics</i> , <b>2021</b> , 10,	4.9	3
91	Spatial variability of prokaryotic and viral abundances in the Kermadec and Atacama Trench regions. <i>Limnology and Oceanography</i> , <b>2021</b> , 66, 2095-2109	4.8	8
90	Dynamics of Baltic Sea phages driven by environmental changes. <i>Environmental Microbiology</i> , <b>2021</b> , 23, 4576-4594	5.2	0
89	High cell densities favor lysogeny: induction of an H2O prophage is repressed by quorum sensing and enhances biofilm formation in <i>Vibrio anguillarum</i> . <i>ISME Journal</i> , <b>2020</b> , 14, 1731-1742	11.9	24
88	Bacteriophages as Biocontrol Agents for Biofilms and Rainbow Trout Infections. <i>Phage</i> , <b>2020</b> , 1, 198-204	1.8	1
87	Beyond Cholera: Characterization of -Encoding Filamentous Phages in the Marine Fish Pathogen. <i>Viruses</i> , <b>2020</b> , 12,	6.2	7
86	Bacteriophages: Emerging Applications in Medicine, Food, and Biotechnology. <i>Phage</i> , <b>2020</b> , 1, 75-82	1.8	0
85	Combining probiotic <i>Phaeobacter inhibens</i> DSM17395 and broad-host-range vibriophage KVP40 against fish pathogenic vibrios. <i>Aquaculture</i> , <b>2019</b> , 513, 734415	4.4	9
84	Biological transformation of Arctic dissolved organic matter in a NE Greenland fjord. <i>Limnology and Oceanography</i> , <b>2019</b> , 64, 1014-1033	4.8	8
83	Big Impact of the Tiny: Bacteriophage-Bacteria Interactions in Biofilms. <i>Trends in Microbiology</i> , <b>2019</b> , 27, 739-752	12.4	50
82	<i>P. aeruginosa</i> flow-cell biofilms are enhanced by repeated phage treatments but can be eradicated by phage-ciprofloxacin combination. <i>Pathogens and Disease</i> , <b>2019</b> , 77,	4.2	33
81	Complete Genome Sequence of <i>Vibrio anguillarum</i> Nontailed Bacteriophage NO16. <i>Microbiology Resource Announcements</i> , <b>2019</b> , 8,	1.3	3

80	Effects of allochthonous dissolved organic matter input on microbial composition and nitrogen-cycling genes at two contrasting estuarine sites. <i>FEMS Microbiology Ecology</i> , <b>2019</b> , 95,	4.3	2
79	Phenotypic and Genetic Predictors of Pathogenicity and Virulence in. <i>Frontiers in Microbiology</i> , <b>2019</b> , 10, 1711	5.7	16
78	Large Phenotypic and Genetic Diversity of Prophages Induced from the Fish Pathogen. <i>Viruses</i> , <b>2019</b> , 11,	6.2	9
77	Phage defense mechanisms and their genomic and phenotypic implications in the fish pathogen <i>Vibrio anguillarum</i> . <i>FEMS Microbiology Ecology</i> , <b>2019</b> , 95,	4.3	23
76	Draft Genome Sequences of Six <i>Vibrio diazotrophicus</i> Strains Isolated from Deep Subsurface Sediments of the Baltic Sea. <i>Genome Announcements</i> , <b>2018</b> , 6,		6
75	Coupling biogeochemical process rates and metagenomic blueprints of coastal bacterial assemblages in the context of environmental change. <i>Environmental Microbiology</i> , <b>2018</b> , 20, 3083-3099	5.2	5
74	Bacteriophage Interactions with Marine Pathogenic Vibrios: Implications for Phage Therapy. <i>Antibiotics</i> , <b>2018</b> , 7,	4.9	41
73	Exploring the Effect of Phage Therapy in Preventing Infections in Cod and Turbot Larvae. <i>Antibiotics</i> , <b>2018</b> , 7,	4.9	26
72	Widespread distribution of prophage-encoded virulence factors in marine <i>Vibrio</i> communities. <i>Scientific Reports</i> , <b>2018</b> , 8, 9973	4.9	47
71	Comparative Genome Analyses of Strains Reveal a Link with Pathogenicity Traits. <i>MSystems</i> , <b>2017</b> , 2,	7.6	39
70	Isolation and characterization of a N4-like lytic bacteriophage infecting <i>Vibrio splendidus</i> , a pathogen of fish and bivalves. <i>PLoS ONE</i> , <b>2017</b> , 12, e0190083	3.7	18
69	Global occurrence and heterogeneity of the Roseobacter-clade species <i>Ruegeria mobilis</i> . <i>ISME Journal</i> , <b>2017</b> , 11, 569-583	11.9	42
68	Stumbling across the Same Phage: Comparative Genomics of Widespread Temperate Phages Infecting the Fish Pathogen <i>Vibrio anguillarum</i> . <i>Viruses</i> , <b>2017</b> , 9,	6.2	31
67	Carbon Bioavailability in a High Arctic Fjord Influenced by Glacial Meltwater, NE Greenland. <i>Frontiers in Marine Science</i> , <b>2017</b> , 4,	4.5	29
66	Re-examination of the relationship between marine virus and microbial cell abundances. <i>Nature Microbiology</i> , <b>2016</b> , 1, 15024	26.6	169
65	Quantification of Viral and Prokaryotic Production Rates in Benthic Ecosystems: A Methods Comparison. <i>Frontiers in Microbiology</i> , <b>2016</b> , 7, 1501	5.7	13
64	Comparative Genome Analysis Provides Insights into the Pathogenicity of <i>Flavobacterium psychrophilum</i> . <i>PLoS ONE</i> , <b>2016</b> , 11, e0152515	3.7	26
63	Genomic diversity of bacteriophages infecting the fish pathogen <i>Flavobacterium psychrophilum</i> . <i>FEMS Microbiology Letters</i> , <b>2016</b> , 363,	2.9	12

62	Effect of Bacteriophages on the Growth of <i>Flavobacterium psychrophilum</i> and Development of Phage-Resistant Strains. <i>Microbial Ecology</i> , <b>2016</b> , 71, 845-59	4.4	18
61	Benthic carbon mineralization in hadal trenches: Assessment by in situ O <sub>2</sub> microprofile measurements. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , <b>2016</b> , 116, 276-286	2.5	66
60	Predation and selection for antibiotic resistance in natural environments. <i>Evolutionary Applications</i> , <b>2016</b> , 9, 427-34	4.8	19
59	Counting viruses and bacteria in photosynthetic microbial mats. <i>Applied and Environmental Microbiology</i> , <b>2015</b> , 81, 2149-55	4.8	23
58	Quorum Sensing Determines the Choice of Antiphage Defense Strategy in <i>Vibrio anguillarum</i> . <i>MBio</i> , <b>2015</b> , 6, e00627	7.8	76
57	Autofluorescence imaging system to discriminate and quantify the distribution of benthic cyanobacteria and diatoms. <i>Limnology and Oceanography: Methods</i> , <b>2015</b> , 13, e10016	2.6	6
56	Microscale spatial distributions of microbes and viruses in intertidal photosynthetic microbial mats. <i>SpringerPlus</i> , <b>2015</b> , 4, 239		14
55	Bacteriophage resistance mechanisms in the fish pathogen <i>Flavobacterium psychrophilum</i> : linking genomic mutations to changes in bacterial virulence factors. <i>Applied and Environmental Microbiology</i> , <b>2015</b> , 81, 1157-67	4.8	53
54	Disruption of photoautotrophic intertidal mats by filamentous fungi. <i>Environmental Microbiology</i> , <b>2015</b> , 17, 2910-21	5.2	11
53	Oceanography and the base of the pelagic food web in the southern Indian Ocean. <i>Journal of Plankton Research</i> , <b>2015</b> , 37, 571-583	2.2	3
52	Vibriophages Differentially Influence Biofilm Formation by <i>Vibrio anguillarum</i> Strains. <i>Applied and Environmental Microbiology</i> , <b>2015</b> , 81, 4489-97	4.8	43
51	Changes in the composition and bioavailability of dissolved organic matter during sea ice formation. <i>Limnology and Oceanography</i> , <b>2015</b> , 60, 817-830	4.8	15
50	A multitrophic model to quantify the effects of marine viruses on microbial food webs and ecosystem processes. <i>ISME Journal</i> , <b>2015</b> , 9, 1352-64	11.9	138
49	Diversity and geographical distribution of <i>Flavobacterium psychrophilum</i> isolates and their phages: patterns of susceptibility to phage infection and phage host range. <i>Microbial Ecology</i> , <b>2014</b> , 67, 748-57	4.4	20
48	Genomic structure of bacteriophage 6H and its distribution as prophage in <i>Flavobacterium psychrophilum</i> strains. <i>FEMS Microbiology Letters</i> , <b>2014</b> , 351, 51-58	2.9	18
47	Detection and quantification of <i>Flavobacterium psychrophilum</i> -specific bacteriophages in vivo in rainbow trout upon oral administration: implications for disease control in aquaculture. <i>Applied and Environmental Microbiology</i> , <b>2014</b> , 80, 7683-93	4.8	26
46	Vibriophages and their interactions with the fish pathogen <i>Vibrio anguillarum</i> . <i>Applied and Environmental Microbiology</i> , <b>2014</b> , 80, 3128-40	4.8	44
45	Recent sediment dynamics in hadal trenches: Evidence for the influence of higher-frequency (tidal, near-inertial) fluid dynamics. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , <b>2014</b> , 90, 125-138 <sup>2.5</sup>		43

44	Seasonal dynamics of autotrophic and heterotrophic plankton metabolism and PCO <sub>2</sub> in a subarctic Greenland fjord. <i>Limnology and Oceanography</i> , <b>2014</b> , 59, 1764-1778	4.8	18
43	Tracing the long-term microbial production of recalcitrant fluorescent dissolved organic matter in seawater. <i>Geophysical Research Letters</i> , <b>2014</b> , 41, 2481-2488	4.9	60
42	Production and transformation of dissolved neutral sugars and amino acids by bacteria in seawater. <i>Biogeosciences</i> , <b>2014</b> , 11, 5349-5363	4.6	9
41	Increased acidification has a profound effect on the interactions between the cyanobacterium <i>Synechococcus</i> sp. WH7803 and its viruses. <i>FEMS Microbiology Ecology</i> , <b>2014</b> , 87, 133-41	4.3	27
40	Antagonistic coevolution of marine planktonic viruses and their hosts. <i>Annual Review of Marine Science</i> , <b>2014</b> , 6, 393-414	15.4	56
39	Dissecting the role of viruses in marine nutrient cycling: bacterial uptake of D- and L-amino acids released by viral lysis. <i>Aquatic Microbial Ecology</i> , <b>2014</b> , 73, 235-243	1.1	4
38	High rates of microbial carbon turnover in sediments in the deepest oceanic trench on Earth. <i>Nature Geoscience</i> , <b>2013</b> , 6, 284-288	18.3	176
37	Viral lysis of <i>Micromonas pusilla</i> : impacts on dissolved organic matter production and composition. <i>Biogeochemistry</i> , <b>2013</b> , 116, 231-240	3.8	52
36	Dispersal and survival of <i>Flavobacterium psychrophilum</i> phages in vivo in rainbow trout and in vitro under laboratory conditions: implications for their use in phage therapy. <i>Applied and Environmental Microbiology</i> , <b>2013</b> , 79, 4853-61	4.8	32
35	Low virus to prokaryote ratios in the cold: benthic viruses and prokaryotes in a subpolar marine ecosystem (Hornsund, Svalbard). <i>International Microbiology</i> , <b>2013</b> , 16, 45-52	3	5
34	Heterogeneous distribution of prokaryotes and viruses at the microscale in a tidal sediment. <i>Aquatic Microbial Ecology</i> , <b>2013</b> , 69, 183-192	1.1	15
33	Bacterial carbon cycling in a subarctic fjord: A seasonal study on microbial activity, growth efficiency, and virus-induced mortality in Kobbefjord, Greenland. <i>Limnology and Oceanography</i> , <b>2012</b> , 57, 1732-1742	4.8	13
32	Diversity of <i>Flavobacterium psychrophilum</i> and the potential use of its phages for protection against bacterial cold water disease in salmonids. <i>Journal of Fish Diseases</i> , <b>2012</b> , 35, 193-201	2.6	55
31	Proteinase production in <i>Pseudomonas fluorescens</i> ON2 is affected by carbon sources and allows surface-attached but not planktonic cells to utilize protein for growth in lake water. <i>FEMS Microbiology Ecology</i> , <b>2012</b> , 80, 168-78	4.3	5
30	Cultivated single-stranded DNA phages that infect marine Bacteroidetes prove difficult to detect with DNA-binding stains. <i>Applied and Environmental Microbiology</i> , <b>2012</b> , 78, 892-4	4.8	42
29	Virus-driven nitrogen cycling enhances phytoplankton growth. <i>Aquatic Microbial Ecology</i> , <b>2012</b> , 66, 41-46	1.1	70
28	Viral abundance and activity in the deep sub-seafloor biosphere. <i>Aquatic Microbial Ecology</i> , <b>2011</b> , 63, 1-8	1.1	38
27	Global trends in the fluorescence characteristics and distribution of marine dissolved organic matter. <i>Marine Chemistry</i> , <b>2011</b> , 126, 139-148	3.7	244

26	Chapter Eleven. Microbial Disease in the Sea: Effects of Viruses on Carbon and Nutrient Cycling <b>2010</b> , 242-259		2
25	Viral lysis of <i>Phaeocystis pouchetii</i> : implications for algal population dynamics and heterotrophic C, N and P cycling. <i>ISME Journal</i> , <b>2009</b> , 3, 430-41	11.9	62
24	Bacteriophages drive strain diversification in a marine <i>Flavobacterium</i> : implications for phage resistance and physiological properties. <i>Environmental Microbiology</i> , <b>2009</b> , 11, 1971-82	5.2	88
23	Global-scale processes with a nanoscale drive: the role of marine viruses. <i>ISME Journal</i> , <b>2008</b> , 2, 575-8	11.9	180
22	Viruses in freshwater ecosystems: an introduction to the exploration of viruses in new aquatic habitats. <i>Freshwater Biology</i> , <b>2008</b> , 53, 1069-1075	3.1	47
21	Isolation and characterization of bacteriophages infecting the fish pathogen <i>Flavobacterium psychrophilum</i> . <i>Applied and Environmental Microbiology</i> , <b>2008</b> , 74, 4070-8	4.8	109
20	Viral dynamics in a coastal sediment: seasonal pattern, controlling factors and relations to the pelagicBenthic coupling. <i>Marine Biology Research</i> , <b>2008</b> , 4, 165-179	1	26
19	Bacterial and viral dynamics during a mass coral spawning period on the Great Barrier Reef. <i>Aquatic Microbial Ecology</i> , <b>2008</b> , 50, 209-220	1.1	28
18	Viral abundance and genome size distribution in the sediment and water column of marine and freshwater ecosystems. <i>FEMS Microbiology Ecology</i> , <b>2007</b> , 60, 397-410	4.3	41
17	Large variabilities in host strain susceptibility and phage host range govern interactions between lytic marine phages and their <i>Flavobacterium</i> hosts. <i>Applied and Environmental Microbiology</i> , <b>2007</b> , 73, 6730-9	4.8	144
16	Viral activity along a trophic gradient in continental margin sediments off central Chile. <i>Marine Biology Research</i> , <b>2006</b> , 2, 41-51	1	30
15	Spatial distribution and activity of viruses in the deep-sea sediments of Sagami Bay, Japan. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , <b>2006</b> , 53, 1-13	2.5	38
14	Viral lysis of bacteria: an important source of dissolved amino acids and cell wall compounds. <i>Journal of the Marine Biological Association of the United Kingdom</i> , <b>2006</b> , 86, 605-612	1.1	103
13	Occurrence and Bacterial Cycling of d Amino Acid Isomers in an Estuarine Environment. <i>Biogeochemistry</i> , <b>2006</b> , 81, 77-94	3.8	16
12	Distribution of oxygen in surface sediments from central Sagami Bay, Japan: In situ measurements by microelectrodes and planar optodes. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , <b>2005</b> , 52, 1974-1987	2.5	54
11	Virus and bacteria dynamics of a coastal sediment: Implication for benthic carbon cycling. <i>Limnology and Oceanography</i> , <b>2004</b> , 49, 2073-2081	4.8	67
10	Distribution of viruses and bacteria in relation to diagenetic activity in an estuarine sediment. <i>Limnology and Oceanography</i> , <b>2003</b> , 48, 1447-1456	4.8	58
9	Utilization of marine sedimentary dissolved organic nitrogen by native anaerobic bacteria. <i>Limnology and Oceanography</i> , <b>2002</b> , 47, 1712-1722	4.8	27

8	Influence of bacterial uptake on deep-ocean dissolved organic carbon. <i>Global Biogeochemical Cycles</i> , <b>2002</b> , 16, 74-1-74-12	5.9	33
7	Viral lysis of marine bacterioplankton: Implications for organic matter cycling and bacterial clonal composition. <i>Ophelia</i> , <b>2002</b> , 56, 57-68		45
6	Viral and bacterial production in the North Water: in situ measurements, batch-culture experiments and characterization and distribution of a virus-host system. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , <b>2002</b> , 49, 5063-5079	2.3	42
5	Bacterioplankton Growth Yield: Seasonal Variations and Coupling to Substrate Lability and beta-Glucosidase Activity. <i>Applied and Environmental Microbiology</i> , <b>1993</b> , 59, 3916-21	4.8	45
4	Marine Viruses: Community Dynamics, Diversity and Impact on Microbial Processes 443-479		16
3	Isolation and life cycle characterization of lytic viruses infecting heterotrophic bacteria and cyanobacteria 118-133		133
2	Separation of free virus particles from sediments in aquatic systems 74-81		29
1	Prevalence of genetically similar <i>Flavobacterium columnare</i> phages across aquaculture environments reveals a strong potential for pathogen control		2