Benjamin A S Van Mooy

List of Publications by Year
in descending order

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70 papers	6,513 citations	94269 37 h-index	85405 71 g-index
75 all docs	75 docs citations	75 times ranked	6776 citing authors

#	Article	IF	Citations
1	Prochlorococcus extracellular vesicles: molecular composition and adsorption to diverse microbes. Environmental Microbiology, 2022, 24, 420-435.	1.8	25
2	Complex marine microbial communities partition metabolism of scarce resources over the diel cycle. Nature Ecology and Evolution, 2022, 6, 218-229.	3.4	21
3	Global ocean lipidomes show a universal relationship between temperature and lipid unsaturation. Science, 2022, 376, 1487-1491.	6.0	39
4	Combined pigment and metatranscriptomic analysis reveals highly synchronized diel patterns of phenotypic light response across domains in the open oligotrophic ocean. ISME Journal, 2021, 15, 520-533.	4.4	28
5	Whole Community Metatranscriptomes and Lipidomes Reveal Diverse Responses Among Antarctic Phytoplankton to Changing Ice Conditions. Frontiers in Marine Science, 2021, 8, .	1.2	4
6	Microbial production and consumption of hydrocarbons in the global ocean. Nature Microbiology, 2021, 6, 489-498.	5.9	56
7	Arsenolipids in Plankton from High- and Low-Nutrient Oceanic Waters Along a Transect in the North Atlantic. Environmental Science & Technology, 2021, 55, 5515-5524.	4.6	11
8	Production of Two Highly Abundant 2-Methyl-Branched Fatty Acids by Blooms of the Globally Significant Marine Cyanobacteria Trichodesmium erythraeum. ACS Omega, 2021, 6, 22803-22810.	1.6	2
9	Targeted and untargeted lipidomic analysis of haptophyte cultures reveals novel and divergent nutrient-stress adaptations. Organic Geochemistry, 2021, 161, 104315.	0.9	9
10	Using High-Sensitivity Lipidomics To Assess Microscale Heterogeneity in Oceanic Sinking Particles and Single Phytoplankton Cells. Environmental Science & Technology, 2021, 55, 15456-15465.	4.6	6
11	Seasonal mixed layer depth shapes phytoplankton physiology, viral production, and accumulation in the North Atlantic. Nature Communications, 2021, 12, 6634.	5.8	19
12	Iron Depletion in the Deep Chlorophyll Maximum: Mesoscale Eddies as Natural Iron Fertilization Experiments. Global Biogeochemical Cycles, 2021, 35, e2021GB007112.	1.9	20
13	Metabolite composition of sinking particles differs from surface suspended particles across a latitudinal transect in the South Atlantic. Limnology and Oceanography, 2020, 65, 111-127.	1.6	39
14	Coordinated transformation of the gut microbiome and lipidome of bowhead whales provides novel insights into digestion. ISME Journal, 2020, 14, 688-701.	4.4	18
15	Nitric oxide mediates oxylipin production and grazing defense in diatoms. Environmental Microbiology, 2020, 22, 629-645.	1.8	12
16	Phospholipid turnover rates suggest that bacterial community growth rates in the open ocean are systematically underestimated. Limnology and Oceanography, 2020, 65, 1876-1890.	1.6	9
17	Particulate Organic Carbon Deconstructed: Molecular and Chemical Composition of Particulate Organic Carbon in the Ocean. Frontiers in Marine Science, 2020, 7, .	1.2	72
18	The mutual interplay between calcification and coccolithovirus infection. Environmental Microbiology, 2019, 21, 1896-1915.	1.8	23

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19	Diverse diazotrophs are present on sinking particles in the North Pacific Subtropical Gyre. ISME Journal, 2019, 13, 170-182.	4.4	81
20	Silicon limitation facilitates virus infection and mortality of marine diatoms. Nature Microbiology, 2019, 4, 1790-1797.	5.9	64
21	Nitric oxide production and antioxidant function during viral infection of the coccolithophore Emiliania huxleyi. ISME Journal, 2019, 13, 1019-1031.	4.4	20
22	Synthesis of high molar activity 33P-labeled phosphorous acid. Journal of Radioanalytical and Nuclear Chemistry, 2019, 320, 885-888.	0.7	1
23	Biochemical diversity of glycosphingolipid biosynthesis as a driver of Coccolithovirus competitive ecology. Environmental Microbiology, 2019, 21, 2182-2197.	1.8	12
24	Coccolithovirus facilitation of carbon export in the North Atlantic. Nature Microbiology, 2018, 3, 537-547.	5.9	114
25	Arsenobetaine in Seawater: Depth Profiles from Selected Sites in the North Atlantic. Environmental Science & Technology, 2018, 52, 522-530.	4.6	21
26	The Trichodesmium microbiome can modulate host N₂ fixation. Limnology and Oceanography Letters, 2018, 3, 401-408.	1.6	13
27	Daily changes in phytoplankton lipidomes reveal mechanisms of energy storage in the open ocean. Nature Communications, 2018, 9, 5179.	5.8	63
28	<i>Trichodesmium</i> physiological ecology and phosphate reduction in the western tropical South Pacific. Biogeosciences, 2018, 15, 5761-5778.	1.3	13
29	The molecular products and biogeochemical significance of lipid photooxidation in West Antarctic surface waters. Geochimica Et Cosmochimica Acta, 2018, 232, 244-264.	1.6	11
30	An autonomous, in situ lightâ€dark bottle device for determining community respiration and net community production. Limnology and Oceanography: Methods, 2018, 16, 323-338.	1.0	10
31	Epibionts dominate metabolic functional potential of Trichodesmium colonies from the oligotrophic ocean. ISME Journal, 2017, 11, 2090-2101.	4.4	65
32	Intact polar lipid export in the temperate western North Atlantic and Sargasso Sea. Organic Geochemistry, 2017, 114, 45-56.	0.9	9
33	Sinking phytoplankton associated with carbon flux in the Atlantic Ocean. Limnology and Oceanography, 2016, 61, 1172-1187.	1.6	53
34	Phosphorus starvation induces membrane remodeling and recycling in Emiliania huxleyi. New Phytologist, 2016, 211, 886-898.	3.5	78
35	LOBSTAHS: An Adduct-Based Lipidomics Strategy for Discovery and Identification of Oxidative Stress Biomarkers. Analytical Chemistry, 2016, 88, 7154-7162.	3.2	65
36	Lipid remodelling is a widespread strategy in marine heterotrophic bacteria upon phosphorus deficiency. ISME Journal, 2016, 10, 968-978.	4.4	95

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37	The multiple fates of sinking particles in the North Atlantic Ocean. Global Biogeochemical Cycles, 2015, 29, 1471-1494.	1.9	76
38	Resource allocation by the marine cyanobacterium <scp>S</scp>ynechococcus<scp>WH</scp>8102 in response to different nutrient supply ratios. Limnology and Oceanography, 2015, 60, 1634-1641.	1.6	23
39	Targeted and untargeted lipidomics of Emiliania huxleyi viral infection and life cycle phases highlights molecular biomarkers of infection, susceptibility, and ploidy. Frontiers in Marine Science, 2015, 2, .	1.2	37
40	SAR11 lipid renovation in response to phosphate starvation. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 7767-7772.	3.3	87
41	Remodeling of intermediate metabolism in the diatom Phaeodactylum tricornutum under nitrogen stress. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 412-417.	3.3	218
42	Cryptic carbon and sulfur cycling between surface ocean plankton. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 453-457.	3.3	348
43	Dose-dependent regulation of microbial activity on sinking particles by polyunsaturated aldehydes: Implications for the carbon cycle. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 5909-5914.	3.3	54
44	Understanding the Role of the Biological Pump in the Global Carbon Cycle: An Imperative for Ocean Science. Oceanography, 2014, 27, 10-16.	0.5	88
45	Physiological modifications of seston in response to physicochemical gradients within Lake Superior. Limnology and Oceanography, 2014, 59, 1011-1026.	1.6	17
46	Novel molecular determinants of viral susceptibility and resistance in the lipidome of <scp>E</scp>miliania huxleyi. Environmental Microbiology, 2014, 16, 1137-1149.	1.8	68
47	Isolation and characterization of lipid rafts in <scp>E</scp>miliania huxleyi: a role for membrane microdomains in hostâ€“virus interactions. Environmental Microbiology, 2014, 16, 1150-1166.	1.8	46
48	Quantitative exploration of the contribution of settlement, growth, dispersal and grazing to the accumulation of natural marine biofilms on antifouling and fouling-release coatings. Biofouling, 2014, 30, 223-236.	0.8	16
49	Virus infection of Haptolina ericina and Phaeocystis pouchetii implicates evolutionary conservation of programmed cell death induction in marine haptophyteâ€“virus interactions. Journal of Plankton Research, 2014, 36, 943-955.	0.8	8
50	Decoupling Physical from Biological Processes to Assess the Impact of Viruses on a Mesoscale Algal Bloom. Current Biology, 2014, 24, 2041-2046.	1.8	110
51	Temperature-Induced Viral Resistance in Emiliania huxleyi (Prymnesiophyceae). PLoS ONE, 2014, 9, e112134.	1.1	29
52	Molecular Ionâ€Independent Quantification of Polar Glycerolipid Classes in Marine Plankton Using Triple Quadrupole MS. Lipids, 2013, 48, 185-195.	0.7	65
53	An interlaboratory study of TEX₈₆ and BIT analysis of sediments, extracts, and standard mixtures. Geochemistry, Geophysics, Geosystems, 2013, 14, 5263-5285.	1.0	76
54	Composition and fate of gas and oil released to the water column during the Deepwater Horizon oil spill. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 20229-20234.	3.3	599

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55	Quorum sensing control of phosphorus acquisition in Trichodesmium consortia. ISME Journal, 2012, 6, 422-429.	4.4	108
56	Hostâ€“virus dynamics and subcellular controls of cell fate in a natural coccolithophore population. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 19327-19332.	3.3	189
57	NONPHOSPHORUS LIPIDS IN PERIPHYTON REFLECT AVAILABLE NUTRIENTS IN THE FLORIDA EVERGLADES, USA¹. Journal of Phycology, 2012, 48, 303-311.	1.0	10
58	Microbial sources of intact polar diacylglycerolipids in the Western North Atlantic Ocean. Organic Geochemistry, 2011, 42, 803-811.	0.9	64
59	Phosphorus supply drives rapid turnover of membrane phospholipids in the diatom Thalassiosira pseudonana. ISME Journal, 2011, 5, 1057-1060.	4.4	140
60	Abundance and diversity of heterotrophic bacterial cells assimilating phosphate in the subtropical North Atlantic Ocean. Environmental Microbiology, 2010, 12, 2773-2782.	1.8	26
61	Bacterial and eukaryotic intact polar lipids in the eastern subtropical South Pacific: Water-column distribution, planktonic sources, and fatty acid composition. Geochimica Et Cosmochimica Acta, 2010, 74, 6499-6516.	1.6	87
62	Phytoplankton in the ocean use non-phosphorus lipids in response to phosphorus scarcity. Nature, 2009, 458, 69-72.	13.7	662
63	An interlaboratory study of TEX₈₆ and BIT analysis using highâ€performance liquid chromatographyâ€“mass spectrometry. Geochemistry, Geophysics, Geosystems, 2009, 10, .	1.0	52
64	Viral Glycosphingolipids Induce Lytic Infection and Cell Death in Marine Phytoplankton. Science, 2009, 326, 861-865.	6.0	229
65	Bacterial vs. zooplankton control of sinking particle flux in the ocean's twilight zone. Limnology and Oceanography, 2008, 53, 1327-1338.	1.6	350
66	Assessing nutrient limitation of Prochlorococcus in the North Pacific subtropical gyre by using an RNA capture method. Limnology and Oceanography, 2008, 53, 78-88.	1.6	59
67	Revisiting Carbon Flux Through the Ocean's Twilight Zone. Science, 2007, 316, 567-570.	6.0	547
68	Microbes and the Marine Phosphorus Cycle. Oceanography, 2007, 20, 110-116.	0.5	211
69	Sulfolipids dramatically decrease phosphorus demand by picocyanobacteria in oligotrophic marine environments. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 8607-8612.	3.3	345
70	Impact of suboxia on sinking particulate organic carbon: Enhanced carbon flux and preferential degradation of amino acids via denitrification. Geochimica Et Cosmochimica Acta, 2002, 66, 457-465.	1.6	255