Helen F Fredricks

List of Publications by Year
in descending order

30 papers	3,221 citations	430874 18 h-index	454955 30 g-index
30 all docs	30 docs citations	30 times ranked	3376 citing authors

#	Article	IF	Citations
1	Phytoplankton in the ocean use non-phosphorus lipids in response to phosphorus scarcity. Nature, 2009, 458, 69-72.	27.8	662
2	Heterotrophic Archaea dominate sedimentary subsurface ecosystems off Peru. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 3846-3851.	7.1	654
3	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.	7.1	345
4	Viral Glycosphingolipids Induce Lytic Infection and Cell Death in Marine Phytoplankton. Science, 2009, 326, 861-865.	12.6	229
5	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.	7.1	189
6	Detection of microbial biomass by intact polar membrane lipid analysis in the water column and surface sediments of the Black Sea. Environmental Microbiology, 2009, 11, 2720-2734.	3.8	158
7	Intact polar lipids of anaerobic methanotrophic archaea and associated bacteria. Organic Geochemistry, 2008, 39, 992-999.	1.8	118
8	Lipid remodelling is a widespread strategy in marine heterotrophic bacteria upon phosphorus deficiency. ISME Journal, 2016, 10, 968-978.	9.8	95
9	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.	3.9	87
10	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.	7.1	87
11	Phosphorus starvation induces membrane remodeling and recycling in Emiliania huxleyi. New Phytologist, 2016, 211, 886-898.	7.3	78
12	Novel molecular determinants of viral susceptibility and resistance in the lipidome of <scp>E</scp>miliania huxleyi. Environmental Microbiology, 2014, 16, 1137-1149.	3.8	68
13	Molecular Ionâ€Independent Quantification of Polar Glycerolipid Classes in Marine Plankton Using Triple Quadrupole MS. Lipids, 2013, 48, 185-195.	1.7	65
14	LOBSTAHS: An Adduct-Based Lipidomics Strategy for Discovery and Identification of Oxidative Stress Biomarkers. Analytical Chemistry, 2016, 88, 7154-7162.	6.5	65
15	Daily changes in phytoplankton lipidomes reveal mechanisms of energy storage in the open ocean. Nature Communications, 2018, 9, 5179.	12.8	63
16	Global ocean lipidomes show a universal relationship between temperature and lipid unsaturation. Science, 2022, 376, 1487-1491.	12.6	39
17	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, .	2.5	37
18	Vertical distribution of microbial lipids and functional genes in chemically distinct layers of a highly polluted meromictic lake. Organic Geochemistry, 2008, 39, 1572-1588.	1.8	30

#	Article	IF	Citations
19	The mutual interplay between calcification and coccolithovirus infection. Environmental Microbiology, 2019, 21, 1896-1915.	3.8	23
20	Seasonal mixed layer depth shapes phytoplankton physiology, viral production, and accumulation in the North Atlantic. Nature Communications, 2021, 12, 6634.	12.8	19
21	Coordinated transformation of the gut microbiome and lipidome of bowhead whales provides novel insights into digestion. ISME Journal, 2020, 14, 688-701.	9.8	18
22	Physiological modifications of seston in response to physicochemical gradients within Lake Superior. Limnology and Oceanography, 2014, 59, 1011-1026.	3.1	17
23	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.	2.2	16
24	Biochemical diversity of glycosphingolipid biosynthesis as a driver of Coccolithovirus competitive ecology. Environmental Microbiology, 2019, 21, 2182-2197.	3.8	12
25	The molecular products and biogeochemical significance of lipid photooxidation in West Antarctic surface waters. Geochimica Et Cosmochimica Acta, 2018, 232, 244-264.	3.9	11
26	Intact polar lipid export in the temperate western North Atlantic and Sargasso Sea. Organic Geochemistry, 2017, 114, 45-56.	1.8	9
27	Targeted and untargeted lipidomic analysis of haptophyte cultures reveals novel and divergent nutrient-stress adaptations. Organic Geochemistry, 2021, 161, 104315.	1.8	9
28	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.	1.8	8
29	Using High-Sensitivity Lipidomics To Assess Microscale Heterogeneity in Oceanic Sinking Particles and Single Phytoplankton Cells. Environmental Science & Technology, 2021, 55, 15456-15465.	10.0	6
30	Whole Community Metatranscriptomes and Lipidomes Reveal Diverse Responses Among Antarctic Phytoplankton to Changing Ice Conditions. Frontiers in Marine Science, 2021, 8, .	2.5	4