

Helen F Fredricks

List of Publications by Year in descending order

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Version: 2024-02-01

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	Global ocean lipidomes show a universal relationship between temperature and lipid unsaturation. <i>Science</i> , 2022, 376, 1487-1491.	12.6	39
2	Whole Community Metatranscriptomes and Lipidomes Reveal Diverse Responses Among Antarctic Phytoplankton to Changing Ice Conditions. <i>Frontiers in Marine Science</i> , 2021, 8, .	2.5	4
3	Targeted and untargeted lipidomic analysis of haptophyte cultures reveals novel and divergent nutrient-stress adaptations. <i>Organic Geochemistry</i> , 2021, 161, 104315.	1.8	9
4	Using High-Sensitivity Lipidomics To Assess Microscale Heterogeneity in Oceanic Sinking Particles and Single Phytoplankton Cells. <i>Environmental Science & Technology</i> , 2021, 55, 15456-15465.	10.0	6
5	Seasonal mixed layer depth shapes phytoplankton physiology, viral production, and accumulation in the North Atlantic. <i>Nature Communications</i> , 2021, 12, 6634.	12.8	19
6	Coordinated transformation of the gut microbiome and lipidome of bowhead whales provides novel insights into digestion. <i>ISME Journal</i> , 2020, 14, 688-701.	9.8	18
7	The mutual interplay between calcification and coccolithovirus infection. <i>Environmental Microbiology</i> , 2019, 21, 1896-1915.	3.8	23
8	Biochemical diversity of glycosphingolipid biosynthesis as a driver of <i>Coccolithovirus</i> competitive ecology. <i>Environmental Microbiology</i> , 2019, 21, 2182-2197.	3.8	12
9	Daily changes in phytoplankton lipidomes reveal mechanisms of energy storage in the open ocean. <i>Nature Communications</i> , 2018, 9, 5179.	12.8	63
10	The molecular products and biogeochemical significance of lipid photooxidation in West Antarctic surface waters. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 232, 244-264.	3.9	11
11	Intact polar lipid export in the temperate western North Atlantic and Sargasso Sea. <i>Organic Geochemistry</i> , 2017, 114, 45-56.	1.8	9
12	Phosphorus starvation induces membrane remodeling and recycling in <i>Emiliana huxleyi</i> . <i>New Phytologist</i> , 2016, 211, 886-898.	7.3	78
13	LOBSTAHS: An Adduct-Based Lipidomics Strategy for Discovery and Identification of Oxidative Stress Biomarkers. <i>Analytical Chemistry</i> , 2016, 88, 7154-7162.	6.5	65
14	Lipid remodelling is a widespread strategy in marine heterotrophic bacteria upon phosphorus deficiency. <i>ISME Journal</i> , 2016, 10, 968-978.	9.8	95
15	Targeted and untargeted lipidomics of <i>Emiliana huxleyi</i> viral infection and life cycle phases highlights molecular biomarkers of infection, susceptibility, and ploidy. <i>Frontiers in Marine Science</i> , 2015, 2, .	2.5	37
16	SAR11 lipid renovation in response to phosphate starvation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 7767-7772.	7.1	87
17	Physiological modifications of seston in response to physicochemical gradients within Lake Superior. <i>Limnology and Oceanography</i> , 2014, 59, 1011-1026.	3.1	17
18	Novel molecular determinants of viral susceptibility and resistance in the lipidome of <i>Emiliana huxleyi</i> . <i>Environmental Microbiology</i> , 2014, 16, 1137-1149.	3.8	68

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19	Quantitative exploration of the contribution of settlement, growth, dispersal and grazing to the accumulation of natural marine biofilms on antifouling and fouling-release coatings. <i>Biofouling</i> , 2014, 30, 223-236.	2.2	16
20	Virus infection of <i>Haptolina ericina</i> and <i>Phaeocystis pouchetii</i> implicates evolutionary conservation of programmed cell death induction in marine haptophyte-virus interactions. <i>Journal of Plankton Research</i> , 2014, 36, 943-955.	1.8	8
21	Molecular Ion-independent Quantification of Polar Glycerolipid Classes in Marine Plankton Using Triple Quadrupole MS. <i>Lipids</i> , 2013, 48, 185-195.	1.7	65
22	Host-virus dynamics and subcellular controls of cell fate in a natural coccolithophore population. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 19327-19332.	7.1	189
23	Bacterial and eukaryotic intact polar lipids in the eastern subtropical South Pacific: Water-column distribution, planktonic sources, and fatty acid composition. <i>Geochimica Et Cosmochimica Acta</i> , 2010, 74, 6499-6516.	3.9	87
24	Phytoplankton in the ocean use non-phosphorus lipids in response to phosphorus scarcity. <i>Nature</i> , 2009, 458, 69-72.	27.8	662
25	Detection of microbial biomass by intact polar membrane lipid analysis in the water column and surface sediments of the Black Sea. <i>Environmental Microbiology</i> , 2009, 11, 2720-2734.	3.8	158
26	Viral Glycosphingolipids Induce Lytic Infection and Cell Death in Marine Phytoplankton. <i>Science</i> , 2009, 326, 861-865.	12.6	229
27	Intact polar lipids of anaerobic methanotrophic archaea and associated bacteria. <i>Organic Geochemistry</i> , 2008, 39, 992-999.	1.8	118
28	Vertical distribution of microbial lipids and functional genes in chemically distinct layers of a highly polluted meromictic lake. <i>Organic Geochemistry</i> , 2008, 39, 1572-1588.	1.8	30
29	Heterotrophic Archaea dominate sedimentary subsurface ecosystems off Peru. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 3846-3851.	7.1	654
30	Sulfolipids dramatically decrease phosphorus demand by picocyanobacteria in oligotrophic marine environments. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 8607-8612.	7.1	345