FranÃ§ois Ribalet

List of Publications by Year
in descending order

33 papers	1,948 citations	361413 20 h-index	414414 32 g-index
40 all docs	40 docs citations	40 times ranked	2394 citing authors

#	Article	IF	Citations
1	Ferritin is used for iron storage in bloom-forming marine pennate diatoms. Nature, 2009, 457, 467-470.	27.8	287
2	A Stress Surveillance System Based on Calcium and Nitric Oxide in Marine Diatoms. PLoS Biology, 2006, 4, e60.	5.6	248
3	Two distinct pools of B$_{12}$ analogs reveal community interdependencies in the ocean. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 364-369.	7.1	174
4	Light-driven synchrony of *Prochlorococcus* growth and mortality in the subtropical Pacific gyre. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 8008-8012.	7.1	126
5	Age and nutrient limitation enhance polyunsaturated aldehyde production in marine diatoms. Phytochemistry, 2007, 68, 2059-2067.	2.9	125
6	Coordinated regulation of growth, activity and transcription in natural populations of the unicellular nitrogen-fixing cyanobacterium Crocosphaera. Nature Microbiology, 2017, 2, 17118.	13.3	122
7	Growth inhibition of cultured marine phytoplankton by toxic algal-derived polyunsaturated aldehydes. Aquatic Toxicology, 2007, 85, 219-227.	4.0	106
8	Differential effect of three polyunsaturated aldehydes on marine bacterial isolates. Aquatic Toxicology, 2008, 86, 249-255.	4.0	99
9	Unveiling a phytoplankton hotspot at a narrow boundary between coastal and offshore waters. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 16571-16576.	7.1	74
10	High Plasticity in the Production of Diatom-derived Polyunsaturated Aldehydes under Nutrient Limitation: Physiological and Ecological Implications. Protist, 2009, 160, 444-451.	1.5	52
11	SeaFlow: A novel underway flowâ€‚ytometer for continuous observations of phytoplankton in the ocean. Limnology and Oceanography: Methods, 2011, 9, 466-477.	2.0	42
12	Phytoplankton Cell Lysis Associated with Polyunsaturated Aldehyde Release in the Northern Adriatic Sea. PLoS ONE, 2014, 9, e85947.	2.5	42
13	Latitudinal constraints on the abundance and activity of the cyanobacterium UCYNâ€A and other marine diazotrophs in the North Pacific. Limnology and Oceanography, 2020, 65, 1858-1875.	3.1	40
14	A single-cell polony method reveals low levels of infected *Prochlorococcus* in oligotrophic waters despite high cyanophage abundances. ISME Journal, 2021, 15, 41-54.	9.8	40
15	SeaFlow data v1, high-resolution abundance, size and biomass of small phytoplankton in the North Pacific. Scientific Data, 2019, 6, 277.	5.3	36
16	KÄ«lauea lava fuels phytoplankton bloom in the North Pacific Ocean. Science, 2019, 365, 1040-1044.	12.6	35
17	Particulate Metabolites and Transcripts Reflect Diel Oscillations of Microbial Activity in the Surface Ocean. MSystems, 2021, 6, .	3.8	29
18	Trophic interactions with heterotrophic bacteria limit the range of *Prochlorococcus*. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	28

#	Article	IF	Citations
19	The influence of net community production and phytoplankton community structure on CO_2 uptake in the Gulf of Alaska. Global Biogeochemical Cycles, 2013, 27, 664-676.	4.9	26
20	The Importance of the Phytoplankton â€œMiddle Classâ€•to Ocean Net Community Production. Global Biogeochemical Cycles, 2020, 34, e2020GB006702.	4.9	26
21	Marine Community Metabolomes Carry Fingerprints of Phytoplankton Community Composition. MSystems, 2021, 6, .	3.8	26
22	Viruses affect picocyanobacterial abundance and biogeography in the North Pacific Ocean. Nature Microbiology, 2022, 7, 570-580.	13.3	25
23	Diel transcriptional oscillations of light-sensitive regulatory elements in open-ocean eukaryotic plankton communities. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	24
24	Scalable clustering algorithms for continuous environmental flow cytometry. Bioinformatics, 2016, 32, 417-423.	4.1	15
25	Diel variability of bulk optical properties associated with the growth and division of small phytoplankton in the North Pacific Subtropical Gyre. Applied Optics, 2020, 59, 6702.	1.8	14
26	Diel oscillations in the feeding activity of heterotrophic and mixotrophic nanoplankton in the North Pacific Subtropical Gyre. Aquatic Microbial Ecology, 2020, 85, 167-181.	1.8	13
27	flowPhyto: enabling automated analysis of microscopic algae from continuous flow cytometric data. Bioinformatics, 2011, 27, 732-733.	4.1	12
28	Dynamics of Teleaulax-like cryptophytes during the decline of a red water bloom in the Columbia River Estuary. Journal of Plankton Research, 2017, 39, 589-599.	1.8	10
29	Biological production, export efficiency, and phytoplankton communities across 8000Âkm of the South Atlantic. Global Biogeochemical Cycles, 2017, 31, 1066-1088.	4.9	10
30	Collaborative Science Workflows in SQL. Computing in Science and Engineering, 2013, 15, 22-31.	1.2	8
31	Real-time collaborative analysis with (almost) pure SQL. , 2013, , .		4
32	A Bayesian approach to modeling phytoplankton population dynamics from size distribution time series. PLoS Computational Biology, 2022, 18, e1009733.	3.2	2
33	A kernelâ€based change detection method to map shifts in phytoplankton communities measured by flow cytometry. Methods in Ecology and Evolution, 2021, 12, 1687-1698.	5.2	1