Naomi M Levine

List of Publications by Year
in descending order

45 papers	2,041 citations	279798 23 h-index	254184 43 g-index
57 all docs	57 docs citations	57 times ranked	4025 citing authors

#	Article	IF	Citations
1	Confronting model predictions of carbon fluxes with measurements of Amazon forests subjected to experimental drought. New Phytologist, 2013, 200, 350-365.	7.3	247
2	Ecosystem heterogeneity determines the ecological resilience of the Amazon to climate change. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 793-797.	7.1	161
3	Deforestation and climate feedbacks threaten the ecological integrity of southâ€“southeastern Amazonia. Philosophical Transactions of the Royal Society B: Biological Sciences, 2013, 368, 20120155.	4.0	118
4	Do dynamic global vegetation models capture the seasonality of carbon fluxes in the Amazon basin? A dataâ€model intercomparison. Global Change Biology, 2017, 23, 191-208.	9.5	106
5	Mechanisms of water supply and vegetation demand govern the seasonality and magnitude of evapotranspiration in Amazonia and Cerrado. Agricultural and Forest Meteorology, 2014, 191, 33-50.	4.8	105
6	The fate of Amazonian ecosystems over the coming century arising from changes in climate, atmospheric <scp>CO</scp>_{2,} and land use. Global Change Biology, 2015, 21, 2569-2587.	9.5	97
7	Microbial rhodopsins are major contributors to the solar energy captured in the sea. Science Advances, 2019, 5, eaaw8855.	10.3	97
8	Detecting anthropogenic CO₂ changes in the interior Atlantic Ocean between 1989 and 2005. Journal of Geophysical Research, 2010, 115, .	3.3	72
9	Microbial metabolites in the marine carbon cycle. Nature Microbiology, 2022, 7, 508-523.	13.3	71
10	Ocean warming alleviates iron limitation of marine nitrogen fixation. Nature Climate Change, 2018, 8, 709-712.	18.8	68
11	The Trichodesmium consortium: conserved heterotrophic co-occurrence and genomic signatures of potential interactions. ISME Journal, 2017, 11, 1813-1824.	9.8	66
12	Ecosystem heterogeneity and diversity mitigate Amazon forest resilience to frequent extreme droughts. New Phytologist, 2018, 219, 914-931.	7.3	64
13	The biophysics, ecology, and biogeochemistry of functionally diverse, vertically and horizontally heterogeneous ecosystems: the Ecosystem Demography model, version 2.2 â€“ Part 1: Model description. Geoscientific Model Development, 2019, 12, 4309-4346.	3.6	62
14	A unified theory for organic matter accumulation. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	60
15	Environmental, biochemical and genetic drivers of DMSP degradation and DMS production in the Sargasso Sea. Environmental Microbiology, 2012, 14, 1210-1223.	3.8	54
16	The role of differential DMSP production and community composition in predicting variability of global surface DMSP concentrations. Limnology and Oceanography, 2019, 64, 757-773.	3.1	51
17	Hydrometeorological effects of historical land-conversion in an ecosystem-atmosphere model of Northern South America. Hydrology and Earth System Sciences, 2015, 19, 241-273.	4.9	50
18	Terrestrial and marine perspectives on modeling organic matter degradation pathways. Global Change Biology, 2016, 22, 121-136.	9.5	50

#	Article	IF	Citations
19	Ocean Time Series Observations of Changing Marine Ecosystems: An Era of Integration, Synthesis, and Societal Applications. Frontiers in Marine Science, 2019, 6, .	2.5	50
20	Global Perspectives on Observing Ocean Boundary Current Systems. Frontiers in Marine Science, 2019, 6, .	2.5	39
21	Modelling climate change responses in tropical forests: similar productivity estimates across five models, but different mechanisms and responses. Geoscientific Model Development, 2015, 8, 1097-1110.	3.6	31
22	Enhancement of phytoplankton chlorophyll by submesoscale frontal dynamics in the North Pacific Subtropical Gyre. Geophysical Research Letters, 2016, 43, 1651-1659.	4.0	30
23	Microbes contribute to setting the ocean carbon flux by altering the fate of sinking particulates. Nature Communications, 2022, 13, 1657.	12.8	30
24	The biophysics, ecology, and biogeochemistry of functionally diverse, vertically and horizontally heterogeneous ecosystems: the Ecosystem Demography model, version 2.2 â€“ Part 2: Model evaluation for tropical South America. Geoscientific Model Development, 2019, 12, 4347-4374.	3.6	29
25	Microbial evolutionary strategies in a dynamic ocean. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 5943-5948.	7.1	29
26	Impacts of temporal CO₂and climate trends on the detection of ocean anthropogenic CO₂accumulation. Global Biogeochemical Cycles, 2011, 25, n/a-n/a.	4.9	22
27	Mechanistic model of nutrient uptake explains dichotomy between marine oligotrophic and copiotrophic bacteria. PLoS Computational Biology, 2021, 17, e1009023.	3.2	20
28	Systematic Variation in Marine Dissolved Organic Matter Stoichiometry and Remineralization Ratios as a Function of Lability. Global Biogeochemical Cycles, 2019, 33, 1389-1407.	4.9	19
29	Putting the spotlight on organic sulfur. Science, 2016, 354, 418-419.	12.6	18
30	Evidence for contrasting roles of dimethylsulfoniopropionate production in Emiliania huxleyi and Thalassiosira oceanica. New Phytologist, 2020, 226, 396-409.	7.3	16
31	Revising upper-ocean sulfur dynamics near Bermuda: new lessons from 3 years of concentration and rate measurements. Environmental Chemistry, 2016, 13, 302.	1.5	14
32	The evolution of trait correlations constrains phenotypic adaptation to high CO₂in a eukaryotic alga. Proceedings of the Royal Society B: Biological Sciences, 2021, 288, 20210940.	2.6	14
33	Warming Iron-Limited Oceans Enhance Nitrogen Fixation and Drive Biogeographic Specialization of the Globally Important Cyanobacterium Crocosphaera. Frontiers in Marine Science, 2021, 8, .	2.5	13
34	Impact of Lagrangian Sea Surface Temperature Variability on Southern Ocean Phytoplankton Community Growth Rates. Global Biogeochemical Cycles, 2021, 35, e2020GB006880.	4.9	10
35	Multivariate trait analysis reveals diatom plasticity constrained to a reduced set of biological axes. ISME Communications, 2021, 1, .	4.2	9
36	A High-Throughput Assay for Quantifying Phenotypic Traits of Microalgae. Frontiers in Microbiology, 2021, 12, 706235.	3.5	8

#	Article	IF	Citations
37	Understanding water and energy fluxes in the Amazonia: Lessons from an observationâ€model intercomparison. Global Change Biology, 2021, 27, 1802-1819.	9.5	6
38	<scp>DMSP</scp> synthesis genes distinguish two types of <scp>DMSP</scp> producer phenotypes. Environmental Microbiology, 2021, 23, 1656-1669.	3.8	6
39	Biogeographical and seasonal dynamics of the marine Roseobacter community and ecological links to DMSP-producing phytoplankton. ISME Communications, 2022, 2, .	4.2	6
40	The Microbiological Drivers of Temporally Dynamic Dimethylsulfoniopropionate Cycling Processes in Australian Coastal Shelf Waters. Frontiers in Microbiology, 0, 13, .	3.5	5
41	Contextualizing time-series data: quantification of short-term regional variability in the San Pedro Channel using high-resolution in situ glider data. Biogeosciences, 2018, 15, 6151-6165.	3.3	3
42	Ecosystem implications of fine-scale frontal disturbances in the oligotrophic ocean â€“ An idealized modeling approach. Progress in Oceanography, 2021, 192, 102519.	3.2	2
43	NCARâ€™s Summer Colloquium: Capacity Building in Cross-Disciplinary Research of Earth System Carbonâ€“Climate Connections. Bulletin of the American Meteorological Society, 2015, 96, 1381-1384.	3.3	1
44	Bacterial chemotaxis to saccharides is governed byÂa trade-off between sensing and uptake. Biophysical Journal, 2022, 121, 2046-2059.	0.5	1
45	Marine plankton metabolisms revealed. Nature Microbiology, 2021, 6, 147-148.	13.3	0