Zoe V Finkel

List of Publications by Year
in descending order

88 papers	7,797 citations	71102 41 h-index	60623 81 g-index
95 all docs	95 docs citations	95 times ranked	7724 citing authors

#	Article	IF	Citations
1	Traits influence dinoflagellate C:N:P. European Journal of Phycology, 2022, 57, 154-165.	2.0	6
2	Elemental and macromolecular composition of the marine Chloropicophyceae, a major group of oceanic photosynthetic picoeukaryotes. Limnology and Oceanography, 2022, 67, 540-551.	3.1	4
3	Basin-scale biogeography of marine phytoplankton reflects cellular-scale optimization of metabolism and physiology. Science Advances, 2022, 8, eabl4930.	10.3	16
4	Conservation and architecture of housekeeping genes in the model marine diatom Thalassiosira pseudonana. New Phytologist, 2022, 234, 1363-1376.	7.3	3
5	Anthropogenic climate change impacts on copepod trait biogeography. Global Change Biology, 2021, 27, 1431-1442.	9.5	31
6	Dynamic Photophysiological Stress Response of a Model Diatom to Ten Environmental Stresses. Journal of Phycology, 2021, 57, 484-495.	2.3	9
7	Growthâ€dependent changes in elemental stoichiometry and macromolecular allocation in the coccolithophore <scp>Emiliania huxleyi</scp> under different environmental conditions. Limnology and Oceanography, 2021, 66, 2999-3009.	3.1	6
8	Niche conservation in copepods between ocean basins. Ecography, 2021, 44, 1653-1664.	4.5	4
9	Contrasting transcriptomic responses of a microbial eukaryotic community to oil and dispersant. Environmental Pollution, 2021, 288, 117774.	7.5	1
10	Crude oil and particulate fluxes including marine oil snow sedimentation and flocculant accumulation: Deepwater Horizon oil spill study. International Oil Spill Conference Proceedings, 2021, 2021, .	0.1	1
11	A Trait-Based Clustering for Phytoplankton Biomass Modeling and Prediction. Diversity, 2020, 12, 295.	1.7	1
12	Photosynthetic adaptation to light availability shapes the ecological success of bloomâ€forming cyanobacterium Pseudanabaena to iron limitation. Journal of Phycology, 2020, 56, 1457-1467.	2.3	3
13	Quantifying nutrient throughput and DOM production by algae in continuous culture. Journal of Theoretical Biology, 2020, 494, 110214.	1.7	7
14	A ribosomal sequence-based oil sensitivity index for phytoplankton groups. Marine Pollution Bulletin, 2020, 151, 110798.	5.0	8
15	Capacity of the common Arctic picoeukaryote Micromonas to adapt to a warming ocean. Limnology and Oceanography Letters, 2020, 5, 221-227.	3.9	9
16	Trait-dependent variability of the response of marine phytoplankton to oil and dispersant exposure. Marine Pollution Bulletin, 2020, 153, 110906.	5.0	16
17	Phytoplankton. , 2020, , 1-6.		0
18	The macromolecular composition of noncalcified marine macroalgae. Journal of Phycology, 2019, 55, 1361-1369.	2.3	8

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19	Molecular mechanisms of temperature acclimation and adaptation in marine diatoms. ISME Journal, 2019, 13, 2415-2425.	9.8	48
20	Growth dynamics and domoic acid production of Pseudo-nitzschia sp. in response to oil and dispersant exposure. Harmful Algae, 2019, 86, 55-63.	4.8	11
21	The Macromolecular Basis of Phytoplankton C:N:P Under Nitrogen Starvation. Frontiers in Microbiology, 2019, 10, 763.	3.5	80
22	Bayesian inference to partition determinants of community dynamics from observational time series. Community Ecology, 2019, 20, 238-251.	0.9	7
23	Response of natural phytoplankton communities exposed to crude oil and chemical dispersants during a mesocosm experiment. Aquatic Toxicology, 2019, 206, 43-53.	4.0	28
24	Physiological response of 10 phytoplankton species exposed to macondo oil and the dispersant, Corexit. Journal of Phycology, 2018, 54, 317-328.	2.3	42
25	Influence of diatom diversity on the ocean biological carbon pump. Nature Geoscience, 2018, 11, 27-37.	12.9	451
26	Phytoplankton Realized Niches Track Changing Oceanic Conditions at a Long-Term Coastal Station off Sydney Australia. Frontiers in Marine Science, 2018, 5, .	2.5	15
27	Nitrogen starvation induces distinct photosynthetic responses and recovery dynamics in diatoms and prasinophytes. PLoS ONE, 2018, 13, e0195705.	2.5	47
28	Traits structure copepod niches in the North Atlantic and Southern Ocean. Marine Ecology - Progress Series, 2018, 601, 109-126.	1.9	25
29	Extracting phytoplankton physiological traits from batch and chemostat culture data. Limnology and Oceanography: Methods, 2017, 15, 453-466.	2.0	13
30	Decadal variability in coastal phytoplankton community composition in a changing West Antarctic Peninsula. Deep-Sea Research Part I: Oceanographic Research Papers, 2017, 124, 42-54.	1.4	138
31	Methodological biases in estimates of macroalgal macromolecular composition. Limnology and Oceanography: Methods, 2017, 15, 618-630.	2.0	12
32	Phytoplankton traits from long-term oceanographic time-series. Marine Ecology - Progress Series, 2017, 576, 11-25.	1.9	18
33	Phylogenetic Diversity in the Macromolecular Composition of Microalgae. PLoS ONE, 2016, 11, e0155977.	2.5	149
34	Ecological equivalence of species within phytoplankton functional groups. Functional Ecology, 2016, 30, 1714-1722.	3.6	47
35	Size-scaling of macromolecules and chemical energy content in the eukaryotic microalgae. Journal of Plankton Research, 2016, 38, 1151-1162.	1.8	28
36	The role of microbial exopolymers in determining the fate of oil and chemical dispersants in the ocean. Limnology and Oceanography Letters, 2016, 1, 3-26.	3.9	105

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37	Silicification in the Microalgae. , 2016, , 289-300.		16
38	Anthropogenic climate change drives shift and shuffle in North Atlantic phytoplankton communities. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 2964-2969.	7.1	204
39	Marine extinction risk shaped by traitâ€“environment interactions over 500Âmillion years. Global Change Biology, 2015, 21, 3595-3607.	9.5	31
40	Phytoplankton adapt to changing ocean environments. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 5762-5766.	7.1	114
41	Paleontological baselines for evaluating extinction risk in the modern oceans. Science, 2015, 348, 567-570.	12.6	111
42	Reply to Brun et al.: Fingerprint of evolution revealed by shifts in realized phytoplankton niches in natural populations. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E5225-E5225.	7.1	0
43	Community- and population-level changes in diatom size structure in a subarctic lake over the last two centuries. PeerJ, 2015, 3, e1074.	2.0	3
44	Large centric diatoms allocate more cellular nitrogen to photosynthesis to counter slower RUBISCO turnover rates. Frontiers in Marine Science, 2014, 1, .	2.5	19
45	Ocean acidification enhances the growth rate of larger diatoms. Limnology and Oceanography, 2014, 59, 1027-1034.	3.1	135
46	Marine Net Primary Production. , 2014, , 117-124.		12
47	Which environmental factors control phytoplankton populations? A Bayesian variable selection approach. Ecological Modelling, 2013, 269, 1-8.	2.5	43
48	The biogeography of marine plankton traits. Ecology Letters, 2013, 16, 522-534.	6.4	258
49	On the roles of cell size and trophic strategy in North Atlantic diatom and dinoflagellate communities. Limnology and Oceanography, 2013, 58, 254-266.	3.1	91
50	Environmental control of the dominant phytoplankton in the Cariaco basin: a hierarchical Bayesian approach. Marine Biology Research, 2013, 9, 246-260.	0.7	30
51	Evolutionary mode of the ostracod,Velatomorpha altilis, from the Joggins Fossil Cliffs UNESCO World Heritage Site. Lethaia, 2012, 45, 615-623.	1.4	4
52	Extinctions in ancient and modern seas. Trends in Ecology and Evolution, 2012, 27, 608-617.	8.7	221
53	Influence of Cell Size and DNA Content on Growth Rate and Photosystem II Function in Cryptic Species of Ditylum brightwellii. PLoS ONE, 2012, 7, e52916.	2.5	14
54	Phytoplankton niches estimated from field data. Limnology and Oceanography, 2012, 57, 787-797.	3.1	118

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55	Macroevolutionary trends in silicoflagellate skeletal morphology: the costs and benefits of silicification. Paleobiology, 2012, 38, 391-402.	2.0	17
56	Biogeographic distribution of diversity and size-structure of organic-walled dinoflagellate cysts. Marine Ecology - Progress Series, 2011, 425, 35-45.	1.9	16
57	Phytoplankton growth allometry and size- dependent C:N stoichiometry revealed by a variable quota model. Marine Ecology - Progress Series, 2011, 434, 29-43.	1.9	14
58	Evolutionary inheritance of elemental stoichiometry in phytoplankton. Proceedings of the Royal Society B: Biological Sciences, 2011, 278, 526-534.	2.6	118
59	Physiological basis for high resistance to photoinhibition under nitrogen depletion in Emiliania huxleyi. Limnology and Oceanography, 2010, 55, 2150-2160.	3.1	68
60	IS THE GROWTH RATE HYPOTHESIS APPLICABLE TO MICROALGAE?1. Journal of Phycology, 2010, 46, 1-12.	2.3	105
61	Genotypic and phenotypic variation in diatom silicification under paleoâ€oceanographic conditions. Geobiology, 2010, 8, 433-445.	2.4	24
62	Cell size tradeâ€offs govern light exploitation strategies in marine phytoplankton. Environmental Microbiology, 2010, 12, 95-104.	3.8	215
63	Phytoplankton in a changing world: cell size and elemental stoichiometry. Journal of Plankton Research, 2010, 32, 119-137.	1.8	909
64	Silica Use Through Time: Macroevolutionary Change in the Morphology of the Diatom Fustule. Geomicrobiology Journal, 2010, 27, 596-608.	2.0	57
65	Environmental control of diatom community size structure varies across aquatic ecosystems. Proceedings of the Royal Society B: Biological Sciences, 2009, 276, 1627-1634.	2.6	64
66	Light and nutrient availability affect the size-scaling of growth in phytoplankton. Journal of Theoretical Biology, 2009, 259, 582-588.	1.7	51
67	Allometry and stoichiometry of unicellular, colonial and multicellular phytoplankton. New Phytologist, 2009, 181, 295-309.	7.3	138
68	Contrasting photoacclimation costs in ecotypes of the marine eukaryotic picoplankter Ostreococcus. Limnology and Oceanography, 2008, 53, 255-265.	3.1	83
69	Mining a Sea of Data: Deducing the Environmental Controls of Ocean Chlorophyll. PLoS ONE, 2008, 3, e3836.	2.5	39
70	Nitrogenâ€fixation strategies and Fe requirements in cyanobacteria. Limnology and Oceanography, 2007, 52, 2260-2269.	3.1	184
71	A universal driver of macroevolutionary change in the size of marine phytoplankton over the Cenozoic. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 20416-20420.	7.1	101
72	Phylogenetic diversity in cadmium : phosphorus ratio regulation by marine phytoplankton. Limnology and Oceanography, 2007, 52, 1131-1138.	3.1	33

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73	Light Variability Illuminates Niche-Partitioning among Marine Picocyanobacteria. PLoS ONE, 2007, 2, e1341.	2.5	108
74	Scaling-up from nutrient physiology to the size-structure of phytoplankton communities. Journal of Plankton Research, 2006, 28, 459-471.	1.8	288
75	Irradiance and the elemental stoichiometry of marine phytoplankton. Limnology and Oceanography, 2006, 51, 2690-2701.	3.1	100
76	A hypothesis of genome structure in marine phytoplankton. Journal of Eukaryotic Microbiology, 2005, 52, 7S-27S.	1.7	0
77	Are you what you eat? Physiological constraints on organismal stoichiometry in an elementally imbalanced world. Oikos, 2005, 109, 18-28.	2.7	240
78	Climatically driven macroevolutionary patterns in the size of marine diatoms over the Cenozoic. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 8927-8932.	7.1	172
79	Evolutionary Trajectories and Biogeochemical Impacts of Marine Eukaryotic Phytoplankton. Annual Review of Ecology, Evolution, and Systematics, 2004, 35, 523-556.	8.3	192
80	Resource limitation alters the 3/4 size scaling of metabolic rates in phytoplankton. Marine Ecology - Progress Series, 2004, 273, 269-279.	1.9	155
81	Watercolors in the Coastal Zone: What Can We See?. Oceanography, 2004, 17, 24-31.	1.0	57
82	The evolutionary inheritance of elemental stoichiometry in marine phytoplankton. Nature, 2003, 425, 291-294.	27.8	481
83	THE ELEMENTAL COMPOSITION OF SOME MARINE PHYTOPLANKTON1. Journal of Phycology, 2003, 39, 1145-1159.	2.3	614
84	Light absorption by phytoplankton and the filter amplification correction: cell size and species effects. Journal of Experimental Marine Biology and Ecology, 2001, 259, 51-61.	1.5	21
85	Light absorption and size scaling of lightâ€limited metabolism in marine diatoms. Limnology and Oceanography, 2001, 46, 86-94.	3.1	213
86	Modeling Size-dependent Photosynthesis: Light Absorption and the Allometric Rule. Journal of Theoretical Biology, 2000, 204, 361-369.	1.7	65
87	The Joggins Fossil Cliffs UNESCO World Heritage site: a review of recent research. Atlantic Geology, 0, 47, 185-200.	0.2	15
88	Bayesian two-part modeling of phytoplankton biomass and occurrence. Hydrobiologia, 0, , 1.	2.0	2