Giacomo R Ditullio

List of Publications by Year
in descending order

61 papers	5,289 citations	126907 33 h-index	123424 61 g-index
63 all docs	63 docs citations	63 times ranked	4290 citing authors

#	Article	IF	Citations
1	Phytoplankton Community Structure and the Drawdown of Nutrients and CO2 in the Southern Ocean. Science, 1999, 283, 365-367.	12.6	719
2	Primary productivity and particle fluxes on a transect of the equator at 153Â°W in the Pacific Ocean. Deep-sea Research Part A, Oceanographic Research Papers, 1984, 31, 1-11.	1.5	366
3	Regulation of algal blooms in Antarctic Shelf Waters by the release of iron from melting sea ice. Geophysical Research Letters, 1997, 24, 2515-2518.	4.0	301
4	Iron, macronutrients and diatom blooms in the Peru upwelling regime: brown and blue waters of Peru. Marine Chemistry, 2005, 93, 81-103.	2.3	300
5	Rapid and early export of Phaeocystis antarctica blooms in the Ross Sea, Antarctica. Nature, 2000, 404, 595-598.	27.8	292
6	Iron and manganese in the Ross Sea, Antarctica: Seasonal iron limitation in Antarctic shelf waters. Journal of Geophysical Research, 2000, 105, 11321-11336.	3.3	247
7	Vitamin B₁₂ and iron colimitation of phytoplankton growth in the Ross Sea. Limnology and Oceanography, 2007, 52, 1079-1093.	3.1	187
8	Phytoplankton taxonomic variability in nutrient utilization and primary production in the Ross Sea. Journal of Geophysical Research, 2000, 105, 8827-8846.	3.3	183
9	Multiple nutrient stresses at intersecting Pacific Ocean biomes detected by protein biomarkers. Science, 2014, 345, 1173-1177.	12.6	174
10	Basinâ€scale inputs of cobalt, iron, and manganese from the Benguelaâ€Angola front to the South Atlantic Ocean. Limnology and Oceanography, 2012, 57, 989-1010.	3.1	134
11	Interaction of iron and major nutrients controls phytoplankton growth and species composition in the tropical North Pacific Ocean. Limnology and Oceanography, 1993, 38, 495-508.	3.1	119
12	Iron and regenerated production: Evidence for biological iron recycling in two marine environments. Limnology and Oceanography, 1993, 38, 1242-1255.	3.1	119
13	Cobalt and nickel in the Peru upwelling region: A major flux of labile cobalt utilized as a micronutrient. Global Biogeochemical Cycles, 2004, 18, n/a-n/a.	4.9	119
14	Coccolithovirus facilitation of carbon export in the North Atlantic. Nature Microbiology, 2018, 3, 537-547.	13.3	114
15	Decoupling Physical from Biological Processes to Assess the Impact of Viruses on a Mesoscale Algal Bloom. Current Biology, 2014, 24, 2041-2046.	3.9	110
16	Limitation of algal growth by iron deficiency in the Australian Subantarctic Region. Geophysical Research Letters, 1999, 26, 2865-2868.	4.0	109
17	Primary production in the subarctic Pacific Ocean: Project SUPER. Progress in Oceanography, 1993, 32, 101-135.	3.2	104
18	Relationship between dimethylsulfide and phytoplankton pigment concentrations in the Ross Sea, Antarctica. Deep-Sea Research Part I: Oceanographic Research Papers, 1995, 42, 873-892.	1.4	96

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19	Impact of an atmospheric-oceanic disturbance on phytoplankton community dynamics in the North Pacific Central Gyre. Deep-sea Research Part A, Oceanographic Research Papers, 1991, 38, 1305-1329.	1.5	89
20	Thaumarchaeal ecotype distributions across the equatorial Pacific Ocean and their potential roles in nitrification and sinking flux attenuation. Limnology and Oceanography, 2017, 62, 1984-2003.	3.1	83
21	Bacterial virulence against an oceanic bloom-forming phytoplankter is mediated by algal DMSP. Science Advances, 2018, 4, eaau5716.	10.3	78
22	The multiple fates of sinking particles in the North Atlantic Ocean. Global Biogeochemical Cycles, 2015, 29, 1471-1494.	4.9	76
23	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
24	Primary production in the deep blue sea. Deep-sea Research Part A, Oceanographic Research Papers, 1990, 37, 715-730.	1.5	65
25	Proteomic Analysis of a Sea-Ice Diatom: Salinity Acclimation Provides New Insight into the Dimethylsulfoniopropionate Production Pathway Â Â Â. Plant Physiology, 2011, 157, 1926-1941.	4.8	59
26	Rebound of shelf water salinity in the Ross Sea. Nature Communications, 2019, 10, 5441.	12.8	56
27	Needles in the blue sea: Subâ€species specificity in targeted protein biomarker analyses within the vast oceanic microbial metaproteome. Proteomics, 2015, 15, 3521-3531.	2.2	49
28	Autotrophic production and elemental fluxes at 26Â°N, 155Â°W in the North Pacific subtropical gyre. Deep-sea Research Part A, Oceanographic Research Papers, 1989, 36, 103-120.	1.5	48
29	Iron Limitation of a Springtime Bacterial and Phytoplankton Community in the Ross Sea: Implications for Vitamin B12 Nutrition. Frontiers in Microbiology, 2011, 2, 160.	3.5	48
30	Estimates of phytoplankton N uptake based on ¹⁴CO₂ incorporation into protein. Limnology and Oceanography, 1983, 28, 177-185.	3.1	45
31	Dinoflagellates alter their carbon and nutrient metabolic strategies across environmental gradients in the central Pacific Ocean. Nature Microbiology, 2021, 6, 173-186.	13.3	45
32	Colony formation in <i>Phaeocystis antarctica</i>: connecting molecular mechanisms with iron biogeochemistry. Biogeosciences, 2018, 15, 4923-4942.	3.3	44
33	A comparison of nitrogen assimilation rates based on 15N uptake and autotrophic protein synthesis. Deep-sea Research Part A, Oceanographic Research Papers, 1985, 32, 85-95.	1.5	42
34	Spatial and temporal variations in variable fluoresence in the Ross Sea (Antarctica): Oceanographic correlates and bloom dynamics. Deep-Sea Research Part I: Oceanographic Research Papers, 2013, 79, 141-155.	1.4	40
35	Influence of iron on algal community composition and physiological status in the Peru upwelling system. Limnology and Oceanography, 2005, 50, 1887-1907.	3.1	37
36	Thermodynamic Constraints on Microbially Mediated Processes in Lakes of the McMurdo Dry Valleys, Antarctica. Geomicrobiology Journal, 2004, 21, 221-237.	2.0	36

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37	Phytoplankton photosynthetic pigments in the Ross Sea: Patterns and relationships among functional groups. Journal of Marine Systems, 2010, 82, 177-185.	2.1	36
38	Vertical structure, seasonal drawdown, and net community production in the Ross Sea, Antarctica. Journal of Geophysical Research, 2011, 116, .	3.3	34
39	Physiological characteristics and production of mixed layer and chlorophyll maximum phytoplankton populations in the Caribbean Sea and western Atlantic Ocean. Deep-sea Research Part A, Oceanographic Research Papers, 1988, 35, 1363-1377.	1.5	33
40	Role of dimethylsulfoniopropionate as an osmoprotectant following gradual salinity shifts in the sea-ice diatom Fragilariopsis cylindrus. Environmental Chemistry, 2016, 13, 181.	1.5	31
41	Dimethylsulfoniopropionate in sea ice algae from the Ross Sea polynya. Antarctic Research Series, 1998, , 139-146.	0.2	30
42	A shipboard natural community continuous culture system for ecologically relevant lowâ€level nutrient enrichment experiments. Limnology and Oceanography: Methods, 2003, 1, 82-91.	2.0	30
43	Phaeocystis antarctica unusual summer bloom in stratified antarctic coastal waters (Terra Nova Bay,) Tj ETQq1 1 0.784314 rgBT /Ove	2.5	30
44	Temperature-Induced Viral Resistance in Emiliania huxleyi (Prymnesiophyceae). PLoS ONE, 2014, 9, e112134.	2.5	29
45	Effects of increased temperature on dimethylsulfoniopropionate (DMSP) concentration and methionine synthase activity in Symbiodinium microadriaticum. Biogeochemistry, 2012, 110, 17-29.	3.5	28
46	Iron limitation of phytoplankton in an urbanized vs. forested southeastern U.S. salt marsh estuary. Journal of Experimental Marine Biology and Ecology, 2004, 298, 233-254.	1.5	26
47	Factors determining the vertical profile of dimethylsulfide in the Sargasso Sea during summer. Deep-Sea Research Part II: Topical Studies in Oceanography, 2008, 55, 1505-1518.	1.4	26
48	Minimal cobalt metabolism in the marine cyanobacterium Prochlorococcus. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 15740-15747.	7.1	25
49	Identification of isethionic acid and other small molecule metabolites of Fragilariopsis cylindrus with nuclear magnetic resonance. Analytical and Bioanalytical Chemistry, 2012, 404, 777-784.	3.7	22
50	Elevated levels of dimethylatedâ€sulfur compounds in Lake Bonney, a poorly ventilated Antarctic lake. Limnology and Oceanography, 2004, 49, 1044-1055.	3.1	20
51	Diagnostic modeling of dimethylsulfide production in coastal water west of the Antarctic Peninsula. Continental Shelf Research, 2012, 32, 96-109.	1.8	17
52	A shipboard natural community continuous culture system for ecologically relevant low-level nutrient enrichment experiments. Limnology and Oceanography: Methods, 2011, 1, 82-91.	2.0	13
53	Algal pigment ratios in the Ross Sea: Implications for Chemtax analysis of Southern Ocean data. Antarctic Research Series, 2003, , 35-51.	0.2	11
54	Differences in pigmentation between life cycle stages in Scrippsiella lachrymosa (dinophyceae). Journal of Phycology, 2016, 52, 64-74.	2.3	11

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55	Adaptive responses of marine diatoms to zinc scarcity and ecological implications. Nature Communications, 2022, 13, 1995.	12.8	10
56	Inhibited Manganese Oxide Formation Hinders Cobalt Scavenging in the Ross Sea. Global Biogeochemical Cycles, 2021, 35, e2020GB006706.	4.9	8
57	Biogeochemical and ecological variability during the late summerâ€“early autumn transition at an iceâ€floe drift station in the Central Arctic Ocean. Limnology and Oceanography, 2021, 66, S363.	3.1	5
58	Flavodoxin as a diagnostic indicator of chronic iron limitation in the Ross Sea and New Zealand sector of the Southern Ocean. Antarctic Research Series, 2003, , 209-219.	0.2	4
59	Alkenone unsaturation during virus infection of Emiliania huxleyi. Organic Geochemistry, 2017, 111, 82-85.	1.8	3
60	In situ determination of cellular DMSP and pigment quotas in a Prorocentrum minimum bloom near the Falkland Islands. Advances in Oceanography and Limnology, 2014, 5, 123.	0.6	3
61	Potential impact of increased temperature and CO2on particulate dimethylsulfoniopropionate in the Southeastern Bering Sea. Advances in Oceanography and Limnology, 2011, 2, 33-47.	0.6	1