

Giacomo R Ditullio

List of Publications by Year in descending order

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Version: 2024-02-01

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	Adaptive responses of marine diatoms to zinc scarcity and ecological implications. <i>Nature Communications</i> , 2022, 13, 1995.	12.8	10
2	Inhibited Manganese Oxide Formation Hinders Cobalt Scavenging in the Ross Sea. <i>Global Biogeochemical Cycles</i> , 2021, 35, e2020GB006706.	4.9	8
3	Dinoflagellates alter their carbon and nutrient metabolic strategies across environmental gradients in the central Pacific Ocean. <i>Nature Microbiology</i> , 2021, 6, 173-186.	13.3	45
4	Biogeochemical and ecological variability during the late summer–early autumn transition at an ice–floe drift station in the Central Arctic Ocean. <i>Limnology and Oceanography</i> , 2021, 66, S363.	3.1	5
5	Minimal cobalt metabolism in the marine cyanobacterium <i>Prochlorococcus</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 15740-15747.	7.1	25
6	<i>Phaeocystis antarctica</i> unusual summer bloom in stratified antarctic coastal waters (Terra Nova Bay), Terra Nova Bay, Antarctica. <i>Journal of Geophysical Research</i> , 2005, 110, F02002.	2.5	30
7	Rebound of shelf water salinity in the Ross Sea. <i>Nature Communications</i> , 2019, 10, 5441.	12.8	56
8	Coccolithovirus facilitation of carbon export in the North Atlantic. <i>Nature Microbiology</i> , 2018, 3, 537-547.	13.3	114
9	Bacterial virulence against an oceanic bloom-forming phytoplankton is mediated by algal DMSP. <i>Science Advances</i> , 2018, 4, eaau5716.	10.3	78
10	Colony formation in <i>Phaeocystis antarctica</i> : connecting molecular mechanisms with iron biogeochemistry. <i>Biogeosciences</i> , 2018, 15, 4923-4942.	3.3	44
11	Thaumarchaeal ecotype distributions across the equatorial Pacific Ocean and their potential roles in nitrification and sinking flux attenuation. <i>Limnology and Oceanography</i> , 2017, 62, 1984-2003.	3.1	83
12	Alkenone unsaturation during virus infection of <i>Emiliana huxleyi</i> . <i>Organic Geochemistry</i> , 2017, 111, 82-85.	1.8	3
13	Differences in pigmentation between life cycle stages in <i>Scrippsiella lachrymosa</i> (dinophyceae). <i>Journal of Phycology</i> , 2016, 52, 64-74.	2.3	11
14	Role of dimethylsulfoniopropionate as an osmoprotectant following gradual salinity shifts in the sea-ice diatom <i>Fragilariopsis cylindrus</i> . <i>Environmental Chemistry</i> , 2016, 13, 181.	1.5	31
15	The multiple fates of sinking particles in the North Atlantic Ocean. <i>Global Biogeochemical Cycles</i> , 2015, 29, 1471-1494.	4.9	76
16	Needles in the blue sea: Species specificity in targeted protein biomarker analyses within the vast oceanic microbial metaproteome. <i>Proteomics</i> , 2015, 15, 3521-3531.	2.2	49
17	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
18	Multiple nutrient stresses at intersecting Pacific Ocean biomes detected by protein biomarkers. <i>Science</i> , 2014, 345, 1173-1177.	12.6	174

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19	Decoupling Physical from Biological Processes to Assess the Impact of Viruses on a Mesoscale Algal Bloom. <i>Current Biology</i> , 2014, 24, 2041-2046.	3.9	110
20	Temperature-Induced Viral Resistance in <i>Emiliania huxleyi</i> (Prymnesiophyceae). <i>PLoS ONE</i> , 2014, 9, e112134.	2.5	29
21	In situ determination of cellular DMSP and pigment quotas in a <i>Prorocentrum minimum</i> bloom near the Falkland Islands. <i>Advances in Oceanography and Limnology</i> , 2014, 5, 123.	0.6	3
22	Spatial and temporal variations in variable fluorescence in the Ross Sea (Antarctica): Oceanographic correlates and bloom dynamics. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2013, 79, 141-155.	1.4	40
23	Basin-scale inputs of cobalt, iron, and manganese from the Benguela-Angola front to the South Atlantic Ocean. <i>Limnology and Oceanography</i> , 2012, 57, 989-1010.	3.1	134
24	Effects of increased temperature on dimethylsulfoniopropionate (DMSP) concentration and methionine synthase activity in <i>Symbiodinium microadriaticum</i> . <i>Biogeochemistry</i> , 2012, 110, 17-29.	3.5	28
25	Identification of isethionic acid and other small molecule metabolites of <i>Fragilariopsis cylindrus</i> with nuclear magnetic resonance. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 404, 777-784.	3.7	22
26	Diagnostic modeling of dimethylsulfide production in coastal water west of the Antarctic Peninsula. <i>Continental Shelf Research</i> , 2012, 32, 96-109.	1.8	17
27	Vertical structure, seasonal drawdown, and net community production in the Ross Sea, Antarctica. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	34
28	Iron Limitation of a Springtime Bacterial and Phytoplankton Community in the Ross Sea: Implications for Vitamin B12 Nutrition. <i>Frontiers in Microbiology</i> , 2011, 2, 160.	3.5	48
29	Potential impact of increased temperature and CO ₂ on particulate dimethylsulfoniopropionate in the Southeastern Bering Sea. <i>Advances in Oceanography and Limnology</i> , 2011, 2, 33-47.	0.6	1
30	Proteomic Analysis of a Sea-Ice Diatom: Salinity Acclimation Provides New Insight into the Dimethylsulfoniopropionate Production Pathway. <i>Plant Physiology</i> , 2011, 157, 1926-1941.	4.8	59
31	A shipboard natural community continuous culture system for ecologically relevant low-level nutrient enrichment experiments. <i>Limnology and Oceanography: Methods</i> , 2011, 1, 82-91.	2.0	13
32	Phytoplankton photosynthetic pigments in the Ross Sea: Patterns and relationships among functional groups. <i>Journal of Marine Systems</i> , 2010, 82, 177-185.	2.1	36
33	Factors determining the vertical profile of dimethylsulfide in the Sargasso Sea during summer. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2008, 55, 1505-1518.	1.4	26
34	Vitamin B ₁₂ and iron colimitation of phytoplankton growth in the Ross Sea. <i>Limnology and Oceanography</i> , 2007, 52, 1079-1093.	3.1	187
35	Influence of iron on algal community composition and physiological status in the Peru upwelling system. <i>Limnology and Oceanography</i> , 2005, 50, 1887-1907.	3.1	37
36	Iron, macronutrients and diatom blooms in the Peru upwelling regime: brown and blue waters of Peru. <i>Marine Chemistry</i> , 2005, 93, 81-103.	2.3	300

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37	Iron limitation of phytoplankton in an urbanized vs. forested southeastern U.S. salt marsh estuary. <i>Journal of Experimental Marine Biology and Ecology</i> , 2004, 298, 233-254.	1.5	26
38	Thermodynamic Constraints on Microbially Mediated Processes in Lakes of the McMurdo Dry Valleys, Antarctica. <i>Geomicrobiology Journal</i> , 2004, 21, 221-237.	2.0	36
39	Cobalt and nickel in the Peru upwelling region: A major flux of labile cobalt utilized as a micronutrient. <i>Global Biogeochemical Cycles</i> , 2004, 18, n/a-n/a.	4.9	119
40	Elevated levels of dimethylated sulfur compounds in Lake Bonney, a poorly ventilated Antarctic lake. <i>Limnology and Oceanography</i> , 2004, 49, 1044-1055.	3.1	20
41	Flavodoxin as a diagnostic indicator of chronic iron limitation in the Ross Sea and New Zealand sector of the Southern Ocean. <i>Antarctic Research Series</i> , 2003, , 209-219.	0.2	4
42	A shipboard natural community continuous culture system for ecologically relevant low level nutrient enrichment experiments. <i>Limnology and Oceanography: Methods</i> , 2003, 1, 82-91.	2.0	30
43	Algal pigment ratios in the Ross Sea: Implications for Chemtax analysis of Southern Ocean data. <i>Antarctic Research Series</i> , 2003, , 35-51.	0.2	11
44	Rapid and early export of <i>Phaeocystis antarctica</i> blooms in the Ross Sea, Antarctica. <i>Nature</i> , 2000, 404, 595-598.	27.8	292
45	Iron and manganese in the Ross Sea, Antarctica: Seasonal iron limitation in Antarctic shelf waters. <i>Journal of Geophysical Research</i> , 2000, 105, 11321-11336.	3.3	247
46	Phytoplankton taxonomic variability in nutrient utilization and primary production in the Ross Sea. <i>Journal of Geophysical Research</i> , 2000, 105, 8827-8846.	3.3	183
47	Phytoplankton Community Structure and the Drawdown of Nutrients and CO ₂ in the Southern Ocean. <i>Science</i> , 1999, 283, 365-367.	12.6	719
48	Limitation of algal growth by iron deficiency in the Australian Subantarctic Region. <i>Geophysical Research Letters</i> , 1999, 26, 2865-2868.	4.0	109
49	Dimethylsulfoniopropionate in sea ice algae from the Ross Sea polynya. <i>Antarctic Research Series</i> , 1998, , 139-146.	0.2	30
50	Regulation of algal blooms in Antarctic Shelf Waters by the release of iron from melting sea ice. <i>Geophysical Research Letters</i> , 1997, 24, 2515-2518.	4.0	301
51	Relationship between dimethylsulfide and phytoplankton pigment concentrations in the Ross Sea, Antarctica. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 1995, 42, 873-892.	1.4	96
52	Primary production in the subarctic Pacific Ocean: Project SUPER. <i>Progress in Oceanography</i> , 1993, 32, 101-135.	3.2	104
53	Interaction of iron and major nutrients controls phytoplankton growth and species composition in the tropical North Pacific Ocean. <i>Limnology and Oceanography</i> , 1993, 38, 495-508.	3.1	119
54	Iron and regenerated production: Evidence for biological iron recycling in two marine environments. <i>Limnology and Oceanography</i> , 1993, 38, 1242-1255.	3.1	119

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55	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
56	Primary production in the deep blue sea. Deep-sea Research Part A, Oceanographic Research Papers, 1990, 37, 715-730.	1.5	65
57	Autotrophic production and elemental fluxes at 26°N, 155°W in the North Pacific subtropical gyre. Deep-sea Research Part A, Oceanographic Research Papers, 1989, 36, 103-120.	1.5	48
58	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
59	A comparison of nitrogen assimilation rates based on ¹⁵ N uptake and autotrophic protein synthesis. Deep-sea Research Part A, Oceanographic Research Papers, 1985, 32, 85-95.	1.5	42
60	Primary productivity and particle fluxes on a transect of the equator at 153°W in the Pacific Ocean. Deep-sea Research Part A, Oceanographic Research Papers, 1984, 31, 1-11.	1.5	366
61	Estimates of phytoplankton N uptake based on ¹⁴ CO ₂ incorporation into protein. Limnology and Oceanography, 1983, 28, 177-185.	3.1	45