Martina A Doblin

List of Publications by Year in descending order

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122 papers 4,718 citations

38 h-index 128289 60 g-index

129 all docs

129 docs citations

times ranked

129

5476 citing authors

#	Article	IF	Citations
1	Mucospheres produced by a mixotrophic protist impact ocean carbon cycling. Nature Communications, 2022, 13, 1301.	12.8	27
2	Predictability of thermal fluctuations influences functional traits of a cosmopolitan marine diatom. Proceedings of the Royal Society B: Biological Sciences, 2022, 289, 20212581.	2.6	5
3	Phosphate-inducible poly-hydroxy butyrate production dynamics in CO2 supplemented upscaled cultivation of engineered Phaeodactylum tricornutum. Journal of Applied Phycology, 2022, 34, 2259-2270.	2.8	4
4	Temperature variability interacts with mean temperature to influence the predictability of microbial phenotypes. Global Change Biology, 2022, 28, 5741-5754.	9.5	3
5	Modelling the impact of phytoplankton cell size and abundance on inherent optical properties (IOPs) and a remotely sensed chlorophyll-a product. Journal of Marine Systems, 2021, 213, 103460.	2.1	7
6	Pelagic forage fish distribution in a dynamic shelf ecosystem – Thermal demands and zooplankton prey distribution. Estuarine, Coastal and Shelf Science, 2021, 249, 107074.	2.1	8
7	Taxonomic Variability in the Electron Requirement for Carbon Fixation Across Marine Phytoplankton. Journal of Phycology, 2021, 57, 111-127.	2.3	4
8	How microalgal biotechnology can assist with the UN Sustainable Development Goals for natural resource management. Current Research in Environmental Sustainability, 2021, 3, 100050.	3.5	41
9	Characterisation of novel regulatory sequences compatible with modular assembly in the diatom Phaeodactylum tricornutum. Algal Research, 2021, 53, 102159.	4.6	11
10	The evolution of trait correlations constrains phenotypic adaptation to high CO ₂ in a eukaryotic alga. Proceedings of the Royal Society B: Biological Sciences, 2021, 288, 20210940.	2.6	14
11	Multivariate trait analysis reveals diatom plasticity constrained to a reduced set of biological axes. ISME Communications, 2021, 1 , .	4.2	9
12	A High-Throughput Assay for Quantifying Phenotypic Traits of Microalgae. Frontiers in Microbiology, 2021, 12, 706235.	3.5	8
13	Evolution, Microbes, and Changing Ocean Conditions. Annual Review of Marine Science, 2020, 12, 181-208.	11.6	42
14	Dynamic variability of the phytoplankton electron requirement for carbon fixation in eastern Australian waters. Journal of Marine Systems, 2020, 202, 103252.	2.1	10
15	Local thermal adaptation and limited gene flow constrain future climate responses of a marine ecosystem engineer. Evolutionary Applications, 2020, 13, 918-934.	3.1	46
16	Local Scale Thermal Environment and Limited Gene Flow Indicates Vulnerability of Warm Edge Populations in a Habitat Forming Macroalga. Frontiers in Marine Science, 2020, 7, .	2.5	8
17	Microbial tropicalization driven by a strengthening western ocean boundary current. Global Change Biology, 2020, 26, 5613-5629.	9.5	16
18	The role of 44-methylgambierone in ciguatera fish poisoning: Acute toxicity, production by marine microalgae and its potential as a biomarker for Gambierdiscus spp Harmful Algae, 2020, 97, 101853.	4.8	25

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19	Primary Production, an Index of Climate Change in the Ocean: Satellite-Based Estimates over Two Decades. Remote Sensing, 2020, 12, 826.	4.0	71
20	First report of the potentially toxic marine diatom <i>Pseudoâ€nitzschia simulans</i> (Bacillariophyceae) from the East Australian Current. Phycological Research, 2020, 68, 254-259.	1.6	4
21	Effect of phytoplankton community size structure on remote-sensing reflectance and chlorophyll a products. Journal of Marine Systems, 2020, 211, 103400.	2.1	16
22	Characterisation of Two Toxic Gambierdiscus spp. (Gonyaulacales, Dinophyceae) from the Great Barrier Reef (Australia): G. lewisii sp. nov. and G. holmesii sp. nov Protist, 2019, 170, 125699.	1.5	31
23	Live cell analysis at sea reveals divergent thermal performance between photosynthetic ocean microbial eukaryote populations. ISME Journal, 2019, 13, 1374-1378.	9.8	8
24	Genetic differentiation between estuarine and open coast ecotypes of a dominant ecosystem engineer. Marine and Freshwater Research, 2019, 70, 977.	1.3	20
25	First description of the environmental niche of the epibenthic dinoflagellate species <i>Coolia palmyrensis</i> , <i>C.Âmalayensis</i> , and <i>C.Âtropicalis</i> (Dinophyceae) from Eastern Australia. Journal of Phycology, 2019, 55, 565-577.	2.3	17
26	Toxicological characterization of <i>Fukuyoa paulensis</i> (Dinophyceae) from temperate Australia. Phycological Research, 2019, 67, 65-71.	1.6	13
27	A database of chlorophyll a in Australian waters. Scientific Data, 2018, 5, 180018.	5.3	14
28	Dinoflagellate cyst abundance is positively correlated to sediment organic carbon in Sydney Harbour and Botany Bay, NSW, Australia. Environmental Science and Pollution Research, 2018, 25, 5808-5821.	5.3	11
29	Impact of nitrogen availability upon the electron requirement for carbon fixation in Australian coastal phytoplankton communities. Limnology and Oceanography, 2018, 63, 1891-1910.	3.1	41
30	Roadmaps and Detours: Active Chlorophyll- <i>a</i> Assessments of Primary Productivity Across Marine and Freshwater Systems. Environmental Science & En	10.0	49
31	Shaping up for stress: Physiological flexibility is key to survivorship in a habitat-forming macroalga. Journal of Plant Physiology, 2018, 231, 346-355.	3. 5	10
32	A new diatom species P. hallegraeffii sp. nov. belonging to the toxic genus Pseudo-nitzschia (Bacillariophyceae) from the East Australian Current. PLoS ONE, 2018, 13, e0195622.	2.5	22
33	Toxicology of Gambierdiscus spp. (Dinophyceae) from Tropical and Temperate Australian Waters. Marine Drugs, 2018, 16, 7.	4.6	44
34	Information content of in situ and remotely sensed chlorophyll-a: Learning from size-structured phytoplankton model. Journal of Marine Systems, 2018, 183, 1-12.	2.1	9
35	Thermal niche evolution of functional traits in a tropical marine phototroph. Journal of Phycology, 2018, 54, 799-810.	2.3	21
36	Phytoplankton Functional Groups Variation and Influencing Factors in a Shallow Temperate Lake. Water Environment Research, 2018, 90, 510-519.	2.7	10

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37	Hitchhiking in the East Australian Current: rafting as a dispersal mechanism for harmful epibenthic dinoflagellates. Marine Ecology - Progress Series, 2018, 596, 49-60.	1.9	15
38	Photosynthesis–irradiance parameters of marine phytoplankton: synthesis of aÂglobal data set. Earth System Science Data, 2018, 10, 251-266.	9.9	80
39	Phytoplankton absorption predicts patterns in primary productivity in Australian coastal shelf waters. Estuarine, Coastal and Shelf Science, 2017, 192, 1-16.	2.1	7
40	Application of â€~Omics' Approaches to Microbial Oceanography. , 2017, , 223-233.		1
41	Effect of copper on multiple successional stages of a marine fouling assemblage. Biofouling, 2017, 33, 904-916.	2.2	4
42	New resource for population genetics studies on the Australasian intertidal brown alga, Hormosira banksii: isolation and characterization of 15 polymorphic microsatellite loci through next generation DNA sequencing. Journal of Applied Phycology, 2017, 29, 1721-1727.	2.8	6
43	Long-term perspective on the relationship between phytoplankton and nutrient concentrations in a southeastern Australian estuary. Marine Pollution Bulletin, 2017, 114, 227-238.	5.0	11
44	Dynamics of Prochlorococcus and Synechococcus at Station ALOHA Revealed through Flow Cytometry and High-Resolution Vertical Sampling. Frontiers in Marine Science, 2017, 4, .	2.5	44
45	Colorimetric Detection of Caspase 3 Activity and Reactive Oxygen Derivatives: Potential Early Indicators of Thermal Stress in Corals. Journal of Marine Biology, 2016, 2016, 1-11.	1.0	10
46	Unravelling the functional genetics of dinoflagellates: a review of approaches and opportunities. Perspectives in Phycology, 2016, 3, 37-52.	1.9	42
47	Thermal Performance Curves of Functional Traits Aid Understanding of Thermally Induced Changes in Diatom-Mediated Biogeochemical Fluxes. Frontiers in Marine Science, 2016, 3, .	2.5	38
48	Key Drivers of Seasonal Plankton Dynamics in Cyclonic and Anticyclonic Eddies off East Australia. Frontiers in Marine Science, 2016, 3, .	2.5	10
49	Partitioning of fungal assemblages across different marine habitats. Environmental Microbiology Reports, 2016, 8, 235-238.	2.4	44
50	Drift in ocean currents impacts intergenerational microbial exposure to temperature. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 5700-5705.	7.1	78
51	A limited legacy effect of copper in marine biofilms. Marine Pollution Bulletin, 2016, 109, 117-127.	5.0	10
52	Physical oceanographic processes influence bio-optical properties in the Tasman Sea. Journal of Sea Research, 2016, 110, 1-7.	1.6	7
53	High levels of heterogeneity in diazotroph diversity and activity within a putative hotspot for marine nitrogen fixation. ISME Journal, 2016, 10, 1499-1513.	9.8	55
54	Snapshot prediction of carbon productivity, carbon and protein content in a Southern Ocean diatom using FTIR spectroscopy. ISME Journal, 2016, 10, 416-426.	9.8	24

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55	Nutrient uplift in a cyclonic eddy increases diversity, primary productivity and iron demand of microbial communities relative to a western boundary current. PeerJ, 2016, 4, e1973.	2.0	35
56	Sydney Harbour: what we do and do not know about a highly diverse estuary. Marine and Freshwater Research, 2015, 66, 1073.	1.3	49
57	Sydney Harbour: a review of anthropogenic impacts on the biodiversity and ecosystem function of one of the world. Marine and Freshwater Research, 2015, 66, 1088.	1.3	73
58	Iron associated with exopolymeric substances is highly bioavailable to oceanic phytoplankton. Marine Chemistry, 2015, 173, 136-147.	2.3	55
59	Variation of phytoplankton functional groups modulated by hydraulic controls in Hongze Lake, China. Environmental Science and Pollution Research, 2015, 22, 18163-18175.	5.3	33
60	Zooplankton trophic niches respond to different water types of the western Tasman Sea: A stable isotope analysis. Deep-Sea Research Part I: Oceanographic Research Papers, 2015, 104, 1-8.	1.4	31
61	Characterising primary productivity measurements across a dynamic western boundary current region. Deep-Sea Research Part I: Oceanographic Research Papers, 2015, 100, 105-116.	1.4	12
62	Climate variability drives plankton community composition changes: the 2010–2011 El Niño to La Niña transition around Australia. Journal of Plankton Research, 2015, 37, 966-984.	1.8	20
63	Assessing and evaluating the ocean-colour footprint of a regional observing system. Journal of Marine Systems, 2015, 143, 49-61.	2.1	11
64	Subtropical zooplankton assemblage promotes the harmful cyanobacterium Cylindrospermopsis raciborskii in a mesocosm experiment. Journal of Plankton Research, 2015, 37, 90-101.	1.8	11
65	Surface Immuno-Functionalisation for the Capture and Detection of Vibrio Species in the Marine Environment: A New Management Tool for Industrial Facilities. PLoS ONE, 2014, 9, e108387.	2.5	8
66	Taxon-specific responses of Southern Ocean diatoms to Fe enrichment revealed by synchrotron radiation FTIR microspectroscopy. Biogeosciences, 2014, 11, 5795-5808.	3.3	24
67	Active water transport in unicellular algae: where, why, and how. Journal of Experimental Botany, 2014, 65, 6279-6292.	4.8	43
68	Demography and interannual variability of salp swarms (Thalia democratica). Marine Biology, 2014, 161, 149-163.	1.5	20
69	Application of an ELISA-type amperometric assay to the detection of Vibrio species with screen-printed electrodes. Analytical Methods, 2014, 6, 2020-2023.	2.7	10
70	Performance of Fast Repetition Rate fluorometry based estimates of primary productivity in coastal waters. Journal of Marine Systems, 2014, 139, 299-310.	2.1	27
71	Ocean acidification and warming alter photosynthesis and calcification of the symbiont-bearing foraminifera Marginopora vertebralis. Marine Biology, 2014, 161, 2143-2154.	1.5	22
72	Relative impact of seasonal and oceanographic drivers on surface chlorophyll a along a Western Boundary Current. Progress in Oceanography, 2014, 120, 340-351.	3.2	64

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73	Primary productivity induced by iron and nitrogen in the Tasman Sea: an overview of the PINTS expedition. Marine and Freshwater Research, 2014, 65, 517.	1.3	30
74	The cyanobacterium Cylindrospermopsis raciborskii is facilitated by copepod selective grazing. Harmful Algae, 2013, 29, 14-21.	4.8	40
75	Diurnal photosynthetic response of the motile symbiotic benthic foraminiferan MarginoporaÂvertebralis. Marine Ecology - Progress Series, 2013, 478, 127-138.	1.9	13
76	The central role of selenium in the biochemistry and ecology of the harmful pelagophyte, <i>Aureococcus anophagefferens</i> . ISME Journal, 2013, 7, 1333-1343.	9.8	39
77	Potential for adaptation in response to thermal stress in an intertidal macroalga. Journal of Phycology, 2013, 49, 630-639.	2.3	39
78	Polychaete Richness and Abundance Enhanced in Anthropogenically Modified Estuaries Despite High Concentrations of Toxic Contaminants. PLoS ONE, 2013, 8, e77018.	2.5	46
79	Phenotypic Plasticity of Southern Ocean Diatoms: Key to Success in the Sea Ice Habitat?. PLoS ONE, 2013, 8, e81185.	2.5	63
80	Microbial consortia increase thermal tolerance of corals. Marine Biology, 2012, 159, 1763-1771.	1.5	35
81	Global toxicology, ecophysiology and population relationships of the chainforming PST dinoflagellate Gymnodinium catenatum. Harmful Algae, 2012, 14, 130-143.	4.8	94
82	Microenvironmental changes support evidence of photosynthesis and calcification inhibition in Halimeda under ocean acidification and warming. Coral Reefs, 2012, 31, 1201-1213.	2.2	40
83	PHOTOPHYSIOLOGICAL RESPONSES OF <i>FRAGILARIOPSIS CYLINDRUS</i> (BACILLARIOPHYCEAE) TO NITROGEN DEPLETION AT TWO TEMPERATURES ¹ . Journal of Phycology, 2012, 48, 127-136.	2.3	25
84	Contrasting microbial assemblages in adjacent water masses associated with the <scp>E</scp> ast <scp>A</scp> ustralian <scp>C</scp> urrent. Environmental Microbiology Reports, 2012, 4, 548-555.	2.4	33
85	Characterisation of water masses and phytoplankton nutrient limitation in the East Australian Current separation zone during spring 2008. Deep-Sea Research Part II: Topical Studies in Oceanography, 2011, 58, 664-677.	1.4	28
86	The effect of surface flooding on the physical–biogeochemical dynamics of a warm-core eddy off southeast Australia. Deep-Sea Research Part II: Topical Studies in Oceanography, 2011, 58, 592-605.	1.4	48
87	Contrasting oceanographic conditions and phytoplankton communities on the east and west coasts of Australia. Deep-Sea Research Part II: Topical Studies in Oceanography, 2011, 58, 645-663.	1.4	51
88	Iron-limitation and high light stress on phytoplankton populations from the Australian Sub-Antarctic Zone (SAZ). Deep-Sea Research Part II: Topical Studies in Oceanography, 2011, 58, 2200-2211.	1.4	34
89	Diel variation of chlorophyll-a fluorescence, phytoplankton pigments and productivity in the Sub-Antarctic and Polar Front Zones south of Tasmania, Australia. Deep-Sea Research Part II: Topical Studies in Oceanography, 2011, 58, 2189-2199.	1.4	30
90	Review of fluorescent standards for calibration of in situ fluorometers: Recommendations applied in coastal and ocean observing programs. Optics Express, 2011, 19, 26768.	3.4	36

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91	PHOTOPROTECTION OF SEAâ€ICE MICROALGAL COMMUNITIES FROM THE EAST ANTARCTIC PACK ICE ¹ . Journal of Phycology, 2011, 47, 77-86.	2.3	31
92	Heterogeneity in the photoprotective capacity of three Antarctic diatoms during short-term changes in salinity and temperature. Marine Biology, 2011, 158, 1029-1041.	1.5	49
93	Warmer more acidic conditions cause decreased productivity and calcification in subtropical coral reef sedimentâ€dwelling calcifiers. Limnology and Oceanography, 2011, 56, 1200-1212.	3.1	108
94	Rapid photoprotection in seaâ€ice diatoms from the East Antarctic pack ice. Limnology and Oceanography, 2010, 55, 1400-1407.	3.1	43
95	Environmental Sources, Speciation, and Partitioning of Selenium. , 2010, , 47-92.		27
96	Thresholds for tracing ships' ballast water: an Australian case study. Marine Ecology - Progress Series, 2010, 408, 19-32.	1.9	7
97	Reduced performance of native infauna following recruitment to a habitat-forming invasive marine alga. Oecologia, 2009, 158, 733-745.	2.0	53
98	Long-term changes in temperate Australian coastal waters: implications for phytoplankton. Marine Ecology - Progress Series, 2009, 394, 1-19.	1.9	102
99	Assessment of Microzooplankton Grazing on Heterosigma akashiwo Using a Species-Specific Approach Combining Quantitative Real-Time PCR (QPCR) and Dilution Methods. Microbial Ecology, 2008, 55, 583-594.	2.8	34
100	STATE TRANSITIONS AND NONPHOTOCHEMICAL QUENCHING DURING A NUTRIENTâ€INDUCED FLUORESCENCE TRANSIENT IN PHOSPHORUSâ€6TARVED ⟨i⟩DUNALIELLA TERTIOLECTA⟨ i⟩⟨sup⟩1⟨ sup⟩. Journal of Phycology, 2008, 44, 1204-1211.	2.3	30
101	Ocean urea fertilization for carbon credits poses high ecological risks. Marine Pollution Bulletin, 2008, 56, 1049-1056.	5.0	58
102	Dynamics and short-term survival of toxic cyanobacteria species in ballast water from NOBOB vessels transiting the Great Lakesâ€"implications for HAB invasions. Harmful Algae, 2007, 6, 519-530.	4.8	39
103	Potential microbial bioinvasions via ships' ballast water, sediment, and biofilm. Marine Pollution Bulletin, 2007, 55, 333-341.	5.0	215
104	Impact of light limitation on seagrasses. Journal of Experimental Marine Biology and Ecology, 2007, 350, 176-193.	1.5	374
105	Vertical migration of the toxic dinoflagellate Gymnodinium catenatum under different concentrations of nutrients and humic substances in culture. Harmful Algae, 2006, 5, 665-677.	4.8	46
106	Marine and Freshwater Cyanophages in a Laurentian Great Lake: Evidence from Infectivity Assays and Molecular Analyses of g20 Genes. Applied and Environmental Microbiology, 2006, 72, 4957-4963.	3.1	76
107	Sources and biogeochemical cycling of particulate selenium in the San Francisco Bay estuary. Estuarine, Coastal and Shelf Science, 2006, 67, 681-694.	2.1	33
108	Setting a size-exclusion limit to remove toxic dinoflagellate cysts from ships' ballast water. Marine Pollution Bulletin, 2006, 52, 259-263.	5.0	20

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109	Improved quantitative realâ€time PCR assays for enumeration of harmful algal species in field samples using an exogenous DNA reference standard. Limnology and Oceanography: Methods, 2005, 3, 381-391.	2.0	130
110	Evaluating vertical migration behavior of harmful raphidophytes in the Delaware Inland Bays utilizing quantitative real-time PCR. Aquatic Microbial Ecology, 2005, 40, 121-132.	1.8	60
111	Potential Invasion of Microorganisms and Pathogens via †Interior Hull Fouling': Biofilms Inside Ballast Water Tanks. Biological Invasions, 2005, 7, 969-982.	2.4	76
112	Transport of the Harmful Bloom Alga Aureococcus anophagefferens by Oceangoing Ships and Coastal Boats. Applied and Environmental Microbiology, 2004, 70, 6495-6500.	3.1	49
113	Multiplex PCR allows simultaneous detection of pathogens in ships' ballast water. Marine Pollution Bulletin, 2004, 48, 1096-1101.	5.0	30
114	Food Web Pathway Determines How Selenium Affects Aquatic Ecosystems:Â A San Francisco Bay Case Study. Environmental Science & Echnology, 2004, 38, 4519-4526.	10.0	149
115	Light dependence of selenium uptake by phytoplankton and implications for predicting selenium incorporation into food webs. Limnology and Oceanography, 2004, 49, 566-578.	3.1	28
116	Selenium in San Francisco Bay zooplankton: Potential effects of hydrodynamics and food web interactions. Estuaries and Coasts, 2003, 26, 956-969.	1.7	25
117	Decontamination of water by excimer UV radiation. IEEE Transactions on Plasma Science, 2002, 30, 1501-1503.	1.3	26
118	Uptake of dissolved organic selenides by marine phytoplankton. Limnology and Oceanography, 2001, 46, 1936-1944.	3.1	37
119	Intraspecific variation in the selenium requirement of different geographic strains of the toxic dinoflagellate Gymnodinium catenatum. Journal of Plankton Research, 2000, 22, 421-432.	1.8	40
120	Comparative study of selenium requirements of three phytoplankton species: Gymnodinium catenatum, Alexandrium minutum (Dinophyta) and Chaetoceros cf. tenuissimus (Bacillariophyta). Journal of Plankton Research, 1999, 21, 1153-1169.	1.8	84
121	Growth and biomass stimulation of the toxic dinoflagellate Gymnodinium catenatum (Graham) by dissolved organic substances. Journal of Experimental Marine Biology and Ecology, 1999, 236, 33-47.	1.5	117
122	Effects of secondarily-treated sewage effluent on the early life-history stages of two species of brown macroalgae: Hormosira banksii and Durvillaea potatorum. Marine Biology, 1995, 122, 689-698.	1.5	46