

# Martina A Doblin

## List of Publications by Year in descending order

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122  
papers

4,718  
citations

87888

38  
h-index

128289

60  
g-index

129  
all docs

129  
docs citations

129  
times ranked

5476  
citing authors

#	ARTICLE	IF	CITATIONS
1	Impact of light limitation on seagrasses. <i>Journal of Experimental Marine Biology and Ecology</i> , 2007, 350, 176-193.	1.5	374
2	Potential microbial bioinvasions via ships' ballast water, sediment, and biofilm. <i>Marine Pollution Bulletin</i> , 2007, 55, 333-341.	5.0	215
3	Food Web Pathway Determines How Selenium Affects Aquatic Ecosystems: A San Francisco Bay Case Study. <i>Environmental Science &amp; Technology</i> , 2004, 38, 4519-4526.	10.0	149
4	Improved quantitative real-time PCR assays for enumeration of harmful algal species in field samples using an exogenous DNA reference standard. <i>Limnology and Oceanography: Methods</i> , 2005, 3, 381-391.	2.0	130
5	Growth and biomass stimulation of the toxic dinoflagellate <i>Gymnodinium catenatum</i> (Graham) by dissolved organic substances. <i>Journal of Experimental Marine Biology and Ecology</i> , 1999, 236, 33-47.	1.5	117
6	Warmer more acidic conditions cause decreased productivity and calcification in subtropical coral reef sediment-dwelling calcifiers. <i>Limnology and Oceanography</i> , 2011, 56, 1200-1212.	3.1	108
7	Long-term changes in temperate Australian coastal waters: implications for phytoplankton. <i>Marine Ecology - Progress Series</i> , 2009, 394, 1-19.	1.9	102
8	Global toxicology, ecophysiology and population relationships of the chainforming PST dinoflagellate <i>Gymnodinium catenatum</i> . <i>Harmful Algae</i> , 2012, 14, 130-143.	4.8	94
9	Comparative study of selenium requirements of three phytoplankton species: <i>Gymnodinium catenatum</i> , <i>Alexandrium minutum</i> (Dinophyta) and <i>Chaetoceros cf. tenuissimus</i> (Bacillariophyta). <i>Journal of Plankton Research</i> , 1999, 21, 1153-1169.	1.8	84
10	Photosynthesis-irradiance parameters of marine phytoplankton: synthesis of a global data set. <i>Earth System Science Data</i> , 2018, 10, 251-266.	9.9	80
11	Drift in ocean currents impacts intergenerational microbial exposure to temperature. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 5700-5705.	7.1	78
12	Potential Invasion of Microorganisms and Pathogens via Interior Hull Fouling: Biofilms Inside Ballast Water Tanks. <i>Biological Invasions</i> , 2005, 7, 969-982.	2.4	76
13	Marine and Freshwater Cyanophages in a Laurentian Great Lake: Evidence from Infectivity Assays and Molecular Analyses of 20 Genes. <i>Applied and Environmental Microbiology</i> , 2006, 72, 4957-4963.	3.1	76
14	Sydney Harbour: a review of anthropogenic impacts on the biodiversity and ecosystem function of one of the world. <i>Marine and Freshwater Research</i> , 2015, 66, 1088.	1.3	73
15	Primary Production, an Index of Climate Change in the Ocean: Satellite-Based Estimates over Two Decades. <i>Remote Sensing</i> , 2020, 12, 826.	4.0	71
16	Relative impact of seasonal and oceanographic drivers on surface chlorophyll a along a Western Boundary Current. <i>Progress in Oceanography</i> , 2014, 120, 340-351.	3.2	64
17	Phenotypic Plasticity of Southern Ocean Diatoms: Key to Success in the Sea Ice Habitat?. <i>PLoS ONE</i> , 2013, 8, e81185.	2.5	63
18	Evaluating vertical migration behavior of harmful raphidophytes in the Delaware Inland Bays utilizing quantitative real-time PCR. <i>Aquatic Microbial Ecology</i> , 2005, 40, 121-132.	1.8	60

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19	Ocean urea fertilization for carbon credits poses high ecological risks. <i>Marine Pollution Bulletin</i> , 2008, 56, 1049-1056.	5.0	58
20	Iron associated with exopolymeric substances is highly bioavailable to oceanic phytoplankton. <i>Marine Chemistry</i> , 2015, 173, 136-147.	2.3	55
21	High levels of heterogeneity in diazotroph diversity and activity within a putative hotspot for marine nitrogen fixation. <i>ISME Journal</i> , 2016, 10, 1499-1513.	9.8	55
22	Reduced performance of native infauna following recruitment to a habitat-forming invasive marine alga. <i>Oecologia</i> , 2009, 158, 733-745.	2.0	53
23	Contrasting oceanographic conditions and phytoplankton communities on the east and west coasts of Australia. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2011, 58, 645-663.	1.4	51
24	Transport of the Harmful Bloom Alga <i>Aureococcus anophagefferens</i> by Oceangoing Ships and Coastal Boats. <i>Applied and Environmental Microbiology</i> , 2004, 70, 6495-6500.	3.1	49
25	Heterogeneity in the photoprotective capacity of three Antarctic diatoms during short-term changes in salinity and temperature. <i>Marine Biology</i> , 2011, 158, 1029-1041.	1.5	49
26	Sydney Harbour: what we do and do not know about a highly diverse estuary. <i>Marine and Freshwater Research</i> , 2015, 66, 1073.	1.3	49
27	Roadmaps and Detours: Active Chlorophyll- <i>a</i> Assessments of Primary Productivity Across Marine and Freshwater Systems. <i>Environmental Science &amp; Technology</i> , 2018, 52, 12039-12054.	10.0	49
28	The effect of surface flooding on the physical-biogeochemical dynamics of a warm-core eddy off southeast Australia. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2011, 58, 592-605.	1.4	48
29	Effects of secondarily-treated sewage effluent on the early life-history stages of two species of brown macroalgae: <i>Hormosira banksii</i> and <i>Durvillaea potatorum</i> . <i>Marine Biology</i> , 1995, 122, 689-698.	1.5	46
30	Vertical migration of the toxic dinoflagellate <i>Gymnodinium catenatum</i> under different concentrations of nutrients and humic substances in culture. <i>Harmful Algae</i> , 2006, 5, 665-677.	4.8	46
31	Polychaete Richness and Abundance Enhanced in Anthropogenically Modified Estuaries Despite High Concentrations of Toxic Contaminants. <i>PLoS ONE</i> , 2013, 8, e77018.	2.5	46
32	Local thermal adaptation and limited gene flow constrain future climate responses of a marine ecosystem engineer. <i>Evolutionary Applications</i> , 2020, 13, 918-934.	3.1	46
33	Partitioning of fungal assemblages across different marine habitats. <i>Environmental Microbiology Reports</i> , 2016, 8, 235-238.	2.4	44
34	Dynamics of <i>Prochlorococcus</i> and <i>Synechococcus</i> at Station ALOHA Revealed through Flow Cytometry and High-Resolution Vertical Sampling. <i>Frontiers in Marine Science</i> , 2017, 4, .	2.5	44
35	Toxicology of <i>Gambierdiscus</i> spp. (Dinophyceae) from Tropical and Temperate Australian Waters. <i>Marine Drugs</i> , 2018, 16, 7.	4.6	44
36	Rapid photoprotection in sea-ice diatoms from the East Antarctic pack ice. <i>Limnology and Oceanography</i> , 2010, 55, 1400-1407.	3.1	43

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37	Active water transport in unicellular algae: where, why, and how. <i>Journal of Experimental Botany</i> , 2014, 65, 6279-6292.	4.8	43
38	Unravelling the functional genetics of dinoflagellates: a review of approaches and opportunities. <i>Perspectives in Phycology</i> , 2016, 3, 37-52.	1.9	42
39	Evolution, Microbes, and Changing Ocean Conditions. <i>Annual Review of Marine Science</i> , 2020, 12, 181-208.	11.6	42
40	Impact of nitrogen availability upon the electron requirement for carbon fixation in Australian coastal phytoplankton communities. <i>Limnology and Oceanography</i> , 2018, 63, 1891-1910.	3.1	41
41	How microalgal biotechnology can assist with the UN Sustainable Development Goals for natural resource management. <i>Current Research in Environmental Sustainability</i> , 2021, 3, 100050.	3.5	41
42	Intraspecific variation in the selenium requirement of different geographic strains of the toxic dinoflagellate <i>Gymnodinium catenatum</i> . <i>Journal of Plankton Research</i> , 2000, 22, 421-432.	1.8	40
43	Microenvironmental changes support evidence of photosynthesis and calcification inhibition in <i>Halimeda</i> under ocean acidification and warming. <i>Coral Reefs</i> , 2012, 31, 1201-1213.	2.2	40
44	The cyanobacterium <i>Cylindrospermopsis raciborskii</i> is facilitated by copepod selective grazing. <i>Harmful Algae</i> , 2013, 29, 14-21.	4.8	40
45	Dynamics and short-term survival of toxic cyanobacteria species in ballast water from NOBOB vessels transiting the Great Lakes—implications for HAB invasions. <i>Harmful Algae</i> , 2007, 6, 519-530.	4.8	39
46	The central role of selenium in the biochemistry and ecology of the harmful pelagophyte, <i>Aureococcus anophagefferens</i> . <i>ISME Journal</i> , 2013, 7, 1333-1343.	9.8	39
47	Potential for adaptation in response to thermal stress in an intertidal macroalga. <i>Journal of Phycology</i> , 2013, 49, 630-639.	2.3	39
48	Thermal Performance Curves of Functional Traits Aid Understanding of Thermally Induced Changes in Diatom-Mediated Biogeochemical Fluxes. <i>Frontiers in Marine Science</i> , 2016, 3, .	2.5	38
49	Uptake of dissolved organic selenides by marine phytoplankton. <i>Limnology and Oceanography</i> , 2001, 46, 1936-1944.	3.1	37
50	Review of fluorescent standards for calibration of in situ fluorometers: Recommendations applied in coastal and ocean observing programs. <i>Optics Express</i> , 2011, 19, 26768.	3.4	36
51	Microbial consortia increase thermal tolerance of corals. <i>Marine Biology</i> , 2012, 159, 1763-1771.	1.5	35
52	Nutrient uplift in a cyclonic eddy increases diversity, primary productivity and iron demand of microbial communities relative to a western boundary current. <i>PeerJ</i> , 2016, 4, e1973.	2.0	35
53	Assessment of Microzooplankton Grazing on <i>Heterosigma akashiwo</i> Using a Species-Specific Approach Combining Quantitative Real-Time PCR (QPCR) and Dilution Methods. <i>Microbial Ecology</i> , 2008, 55, 583-594.	2.8	34
54	Iron-limitation and high light stress on phytoplankton populations from the Australian Sub-Antarctic Zone (SAZ). <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2011, 58, 2200-2211.	1.4	34

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55	Sources and biogeochemical cycling of particulate selenium in the San Francisco Bay estuary. <i>Estuarine, Coastal and Shelf Science</i> , 2006, 67, 681-694.	2.1	33
56	Contrasting microbial assemblages in adjacent water masses associated with the East Australian Current. <i>Environmental Microbiology Reports</i> , 2012, 4, 548-555.	2.4	33
57	Variation of phytoplankton functional groups modulated by hydraulic controls in Hongze Lake, China. <i>Environmental Science and Pollution Research</i> , 2015, 22, 18163-18175.	5.3	33
58	PHOTOPROTECTION OF SEA-ICE MICROALGAL COMMUNITIES FROM THE EAST ANTARCTIC PACK ICE. <i>Journal of Phycology</i> , 2011, 47, 77-86.	2.3	31
59	Zooplankton trophic niches respond to different water types of the western Tasman Sea: A stable isotope analysis. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2015, 104, 1-8.	1.4	31
60	Characterisation of Two Toxic <i>Gambierdiscus</i> spp. ( <i>Gonyaulacales</i> , <i>Dinophyceae</i> ) from the Great Barrier Reef (Australia): <i>G. lewisii</i> sp. nov. and <i>G. holmesii</i> sp. nov.. <i>Protist</i> , 2019, 170, 125699.	1.5	31
61	Multiplex PCR allows simultaneous detection of pathogens in ships' ballast water. <i>Marine Pollution Bulletin</i> , 2004, 48, 1096-1101.	5.0	30
62	STATE TRANSITIONS AND NONPHOTO-CHEMICAL QUENCHING DURING A NUTRIENT-INDUCED FLUORESCENCE TRANSIENT IN PHOSPHORUS-STARVED <i>DUNALIELLA TERTIOLECTA</i> . <i>Journal of Phycology</i> , 2008, 44, 1204-1211.	2.3	30
63	Diel variation of chlorophyll-a fluorescence, phytoplankton pigments and productivity in the Sub-Antarctic and Polar Front Zones south of Tasmania, Australia. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2011, 58, 2189-2199.	1.4	30
64	Primary productivity induced by iron and nitrogen in the Tasman Sea: an overview of the PINTS expedition. <i>Marine and Freshwater Research</i> , 2014, 65, 517.	1.3	30
65	Light dependence of selenium uptake by phytoplankton and implications for predicting selenium incorporation into food webs. <i>Limnology and Oceanography</i> , 2004, 49, 566-578.	3.1	28
66	Characterisation of water masses and phytoplankton nutrient limitation in the East Australian Current separation zone during spring 2008. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2011, 58, 664-677.	1.4	28
67	Performance of Fast Repetition Rate fluorometry based estimates of primary productivity in coastal waters. <i>Journal of Marine Systems</i> , 2014, 139, 299-310.	2.1	27
68	Environmental Sources, Speciation, and Partitioning of Selenium. , 2010, , 47-92.		27
69	Mucospheres produced by a mixotrophic protist impact ocean carbon cycling. <i>Nature Communications</i> , 2022, 13, 1301.	12.8	27
70	Decontamination of water by excimer UV radiation. <i>IEEE Transactions on Plasma Science</i> , 2002, 30, 1501-1503.	1.3	26
71	Selenium in San Francisco Bay zooplankton: Potential effects of hydrodynamics and food web interactions. <i>Estuaries and Coasts</i> , 2003, 26, 956-969.	1.7	25
72	PHOTOPHYSIOLOGICAL RESPONSES OF <i>FRAGILARIOPSIS CYLINDRUS</i> (BACILLARIOPHYCEAE) TO NITROGEN DEPLETION AT TWO TEMPERATURES. <i>Journal of Phycology</i> , 2012, 48, 127-136.	2.3	25

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73	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
74	Taxon-specific responses of Southern Ocean diatoms to Fe enrichment revealed by synchrotron radiation FTIR microspectroscopy. Biogeosciences, 2014, 11, 5795-5808.	3.3	24
75	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
76	Ocean acidification and warming alter photosynthesis and calcification of the symbiont-bearing foraminifera Marginopora vertebralis. Marine Biology, 2014, 161, 2143-2154.	1.5	22
77	A new diatom species <i>P. hallegraeffii</i> sp. nov. belonging to the toxic genus <i>Pseudo-nitzschia</i> (Bacillariophyceae) from the East Australian Current. PLoS ONE, 2018, 13, e0195622.	2.5	22
78	Thermal niche evolution of functional traits in a tropical marine phototroph. Journal of Phycology, 2018, 54, 799-810.	2.3	21
79	Setting a size-exclusion limit to remove toxic dinoflagellate cysts from ships' ballast water. Marine Pollution Bulletin, 2006, 52, 259-263.	5.0	20
80	Demography and interannual variability of salp swarms ( <i>Thalia democratica</i> ). Marine Biology, 2014, 161, 149-163.	1.5	20
81	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
82	Genetic differentiation between estuarine and open coast ecotypes of a dominant ecosystem engineer. Marine and Freshwater Research, 2019, 70, 977.	1.3	20
83	First description of the environmental niche of the epibenthic dinoflagellate species <i>Coolia palmyrensis</i> , <i>C. Amalayensis</i> , and <i>C. Atropicalis</i> (Dinophyceae) from Eastern Australia. Journal of Phycology, 2019, 55, 565-577.	2.3	17
84	Microbial tropicalization driven by a strengthening western ocean boundary current. Global Change Biology, 2020, 26, 5613-5629.	9.5	16
85	Effect of phytoplankton community size structure on remote-sensing reflectance and chlorophyll a products. Journal of Marine Systems, 2020, 211, 103400.	2.1	16
86	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
87	A database of chlorophyll a in Australian waters. Scientific Data, 2018, 5, 180018.	5.3	14
88	The evolution of trait correlations constrains phenotypic adaptation to high CO <sub>2</sub> in a eukaryotic alga. Proceedings of the Royal Society B: Biological Sciences, 2021, 288, 20210940.	2.6	14
89	Diurnal photosynthetic response of the motile symbiotic benthic foraminiferan <i>Marginopora vertebralis</i> . Marine Ecology - Progress Series, 2013, 478, 127-138.	1.9	13
90	Toxicological characterization of <i>Fukuyoa paulensis</i> (Dinophyceae) from temperate Australia. Phycological Research, 2019, 67, 65-71.	1.6	13

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91	Characterising primary productivity measurements across a dynamic western boundary current region. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2015, 100, 105-116.	1.4	12
92	Assessing and evaluating the ocean-colour footprint of a regional observing system. <i>Journal of Marine Systems</i> , 2015, 143, 49-61.	2.1	11
93	Subtropical zooplankton assemblage promotes the harmful cyanobacterium <i>Cylindrospermopsis raciborskii</i> in a mesocosm experiment. <i>Journal of Plankton Research</i> , 2015, 37, 90-101.	1.8	11
94	Long-term perspective on the relationship between phytoplankton and nutrient concentrations in a southeastern Australian estuary. <i>Marine Pollution Bulletin</i> , 2017, 114, 227-238.	5.0	11
95	Dinoflagellate cyst abundance is positively correlated to sediment organic carbon in Sydney Harbour and Botany Bay, NSW, Australia. <i>Environmental Science and Pollution Research</i> , 2018, 25, 5808-5821.	5.3	11
96	Characterisation of novel regulatory sequences compatible with modular assembly in the diatom <i>Phaeodactylum tricornutum</i> . <i>Algal Research</i> , 2021, 53, 102159.	4.6	11
97	Application of an ELISA-type amperometric assay to the detection of <i>Vibrio</i> species with screen-printed electrodes. <i>Analytical Methods</i> , 2014, 6, 2020-2023.	2.7	10
98	Colorimetric Detection of Caspase 3 Activity and Reactive Oxygen Derivatives: Potential Early Indicators of Thermal Stress in Corals. <i>Journal of Marine Biology</i> , 2016, 2016, 1-11.	1.0	10
99	Key Drivers of Seasonal Plankton Dynamics in Cyclonic and Anticyclonic Eddies off East Australia. <i>Frontiers in Marine Science</i> , 2016, 3, .	2.5	10
100	A limited legacy effect of copper in marine biofilms. <i>Marine Pollution Bulletin</i> , 2016, 109, 117-127.	5.0	10
101	Shaping up for stress: Physiological flexibility is key to survivorship in a habitat-forming macroalga. <i>Journal of Plant Physiology</i> , 2018, 231, 346-355.	3.5	10
102	Phytoplankton Functional Groups Variation and Influencing Factors in a Shallow Temperate Lake. <i>Water Environment Research</i> , 2018, 90, 510-519.	2.7	10
103	Dynamic variability of the phytoplankton electron requirement for carbon fixation in eastern Australian waters. <i>Journal of Marine Systems</i> , 2020, 202, 103252.	2.1	10
104	Information content of in situ and remotely sensed chlorophyll-a: Learning from size-structured phytoplankton model. <i>Journal of Marine Systems</i> , 2018, 183, 1-12.	2.1	9
105	Multivariate trait analysis reveals diatom plasticity constrained to a reduced set of biological axes. <i>ISME Communications</i> , 2021, 1, .	4.2	9
106	Surface Immuno-Functionalisation for the Capture and Detection of <i>Vibrio</i> Species in the Marine Environment: A New Management Tool for Industrial Facilities. <i>PLoS ONE</i> , 2014, 9, e108387.	2.5	8
107	Live cell analysis at sea reveals divergent thermal performance between photosynthetic ocean microbial eukaryote populations. <i>ISME Journal</i> , 2019, 13, 1374-1378.	9.8	8
108	Local Scale Thermal Environment and Limited Gene Flow Indicates Vulnerability of Warm Edge Populations in a Habitat Forming Macroalga. <i>Frontiers in Marine Science</i> , 2020, 7, .	2.5	8



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109	Pelagic forage fish distribution in a dynamic shelf ecosystem – Thermal demands and zooplankton prey distribution. <i>Estuarine, Coastal and Shelf Science</i> , 2021, 249, 107074.	2.1	8
110	A High-Throughput Assay for Quantifying Phenotypic Traits of Microalgae. <i>Frontiers in Microbiology</i> , 2021, 12, 706235.	3.5	8
111	Physical oceanographic processes influence bio-optical properties in the Tasman Sea. <i>Journal of Sea Research</i> , 2016, 110, 1-7.	1.6	7
112	Phytoplankton absorption predicts patterns in primary productivity in Australian coastal shelf waters. <i>Estuarine, Coastal and Shelf Science</i> , 2017, 192, 1-16.	2.1	7
113	Modelling the impact of phytoplankton cell size and abundance on inherent optical properties (IOPs) and a remotely sensed chlorophyll-a product. <i>Journal of Marine Systems</i> , 2021, 213, 103460.	2.1	7
114	Thresholds for tracing ships’ ballast water: an Australian case study. <i>Marine Ecology - Progress Series</i> , 2010, 408, 19-32.	1.9	7
115	New resource for population genetics studies on the Australasian intertidal brown alga, <i>Hormosira banksii</i> : isolation and characterization of 15 polymorphic microsatellite loci through next generation DNA sequencing. <i>Journal of Applied Phycology</i> , 2017, 29, 1721-1727.	2.8	6
116	Predictability of thermal fluctuations influences functional traits of a cosmopolitan marine diatom. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2022, 289, 20212581.	2.6	5
117	Effect of copper on multiple successional stages of a marine fouling assemblage. <i>Biofouling</i> , 2017, 33, 904-916.	2.2	4
118	First report of the potentially toxic marine diatom <i>Pseudo-nitzschia simulans</i> (Bacillariophyceae) from the East Australian Current. <i>Phycological Research</i> , 2020, 68, 254-259.	1.6	4
119	Taxonomic Variability in the Electron Requirement for Carbon Fixation Across Marine Phytoplankton. <i>Journal of Phycology</i> , 2021, 57, 111-127.	2.3	4
120	Phosphate-inducible poly-hydroxy butyrate production dynamics in CO <sub>2</sub> supplemented upscaled cultivation of engineered <i>Phaeodactylum tricornutum</i> . <i>Journal of Applied Phycology</i> , 2022, 34, 2259-2270.	2.8	4
121	Temperature variability interacts with mean temperature to influence the predictability of microbial phenotypes. <i>Global Change Biology</i> , 2022, 28, 5741-5754.	9.5	3
122	Application of ‘Omics’ Approaches to Microbial Oceanography. , 2017, , 223-233.		1