

# Philip W. Boyd

## List of Publications by Year in descending order

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286  
papers

31,755  
citations

4388

86  
h-index

5120

166  
g-index

301  
all docs

301  
docs citations

301  
times ranked

18322  
citing authors

#	ARTICLE	IF	CITATIONS
1	Global Iron Connections Between Desert Dust, Ocean Biogeochemistry, and Climate. <i>Science</i> , 2005, 308, 67-71.	12.6	2,365
2	Processes and patterns of oceanic nutrient limitation. <i>Nature Geoscience</i> , 2013, 6, 701-710.	12.9	1,627
3	A mesoscale phytoplankton bloom in the polar Southern Ocean stimulated by iron fertilization. <i>Nature</i> , 2000, 407, 695-702.	27.8	1,417
4	Mesoscale Iron Enrichment Experiments 1993-2005: Synthesis and Future Directions. <i>Science</i> , 2007, 315, 612-617.	12.6	1,250
5	Scientistsâ€™ warning to humanity: microorganisms and climate change. <i>Nature Reviews Microbiology</i> , 2019, 17, 569-586.	28.6	1,138
6	The biogeochemical cycle of iron in the ocean. <i>Nature Geoscience</i> , 2010, 3, 675-682.	12.9	750
7	Synthesis of iron fertilization experiments: From the Iron Age in the Age of Enlightenment. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	596
8	Revisiting Carbon Flux Through the Ocean's Twilight Zone. <i>Science</i> , 2007, 316, 567-570.	12.6	547
9	The integral role of iron in ocean biogeochemistry. <i>Nature</i> , 2017, 543, 51-59.	27.8	482
10	The decline and fate of an iron-induced subarctic phytoplankton bloom. <i>Nature</i> , 2004, 428, 549-553.	27.8	476
11	Multi-faceted particle pumps drive carbon sequestration in the ocean. <i>Nature</i> , 2019, 568, 327-335.	27.8	455
12	A biogeochemical study of the coccolithophore, <i>Emiliania huxleyi</i> , in the North Atlantic. <i>Global Biogeochemical Cycles</i> , 1993, 7, 879-900.	4.9	450
13	Effect of iron supply on Southern Ocean CO <sub>2</sub> uptake and implications for glacial atmospheric CO <sub>2</sub> . <i>Nature</i> , 2000, 407, 730-733.	27.8	449
14	Climate change and Southern Ocean ecosystems I: how changes in physical habitats directly affect marine biota. <i>Global Change Biology</i> , 2014, 20, 3004-3025.	9.5	448
15	Understanding the export of biogenic particles in oceanic waters: Is there consensus?. <i>Progress in Oceanography</i> , 2007, 72, 276-312.	3.2	394
16	Shedding light on processes that control particle export and flux attenuation in the twilight zone of the open ocean. <i>Limnology and Oceanography</i> , 2009, 54, 1210-1232.	3.1	384
17	Global assessment of ocean carbon export by combining satellite observations and foodâ€‘web models. <i>Global Biogeochemical Cycles</i> , 2014, 28, 181-196.	4.9	368
18	Bacterial vs. zooplankton control of sinking particle flux in the ocean's twilight zone. <i>Limnology and Oceanography</i> , 2008, 53, 1327-1338.	3.1	350

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19	Elevated consumption of carbon relative to nitrogen in the surface ocean. <i>Nature</i> , 1993, 363, 248-250.	27.8	323
20	Experimental strategies to assess the biological ramifications of multiple drivers of global ocean change—A review. <i>Global Change Biology</i> , 2018, 24, 2239-2261.	9.5	285
21	Modelling regional responses by marine pelagic ecosystems to global climate change. <i>Geophysical Research Letters</i> , 2002, 29, 53-1-53-4.	4.0	281
22	Flavodoxin as an in situ marker for iron stress in phytoplankton. <i>Nature</i> , 1996, 382, 802-805.	27.8	269
23	Environmental control of open-ocean phytoplankton groups: Now and in the future. <i>Limnology and Oceanography</i> , 2010, 55, 1353-1376.	3.1	266
24	Role of iron, light, and silicate in controlling algal biomass in subantarctic waters SE of New Zealand. <i>Journal of Geophysical Research</i> , 1999, 104, 13395-13408.	3.3	265
25	ENVIRONMENTAL FACTORS CONTROLLING PHYTOPLANKTON PROCESSES IN THE SOUTHERN OCEAN <sup>1</sup> . <i>Journal of Phycology</i> , 2002, 38, 844-861.	2.3	265
26	Does planktonic community structure determine downward particulate organic carbon flux in different oceanic provinces?. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 1999, 46, 63-91.	1.4	263
27	Importance of stirring in the development of an iron-fertilized phytoplankton bloom. <i>Nature</i> , 2000, 407, 727-730.	27.8	260
28	Marine Phytoplankton Temperature versus Growth Responses from Polar to Tropical Waters — Outcome of a Scientific Community-Wide Study. <i>PLoS ONE</i> , 2013, 8, e63091.	2.5	258
29	The GEOTRACES Intermediate Data Product 2017. <i>Chemical Geology</i> , 2018, 493, 210-223.	3.3	257
30	The fishery for Antarctic krill — recent developments. <i>Fish and Fisheries</i> , 2012, 13, 30-40.	5.3	252
31	Saccharides enhance iron bioavailability to Southern Ocean phytoplankton. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 1076-1081.	7.1	235
32	Surface-water iron supplies in the Southern Ocean sustained by deep winter mixing. <i>Nature Geoscience</i> , 2014, 7, 314-320.	12.9	223
33	Comparison of factors controlling phytoplankton productivity in the NE and NW subarctic Pacific gyres. <i>Progress in Oceanography</i> , 1999, 43, 205-234.	3.2	218
34	Biological ramifications of climate-change-mediated oceanic multi-stressors. <i>Nature Climate Change</i> , 2015, 5, 71-79.	18.8	214
35	Phytoplankton distributions around New Zealand derived from SeaWiFS remotely-sensed ocean colour data. <i>New Zealand Journal of Marine and Freshwater Research</i> , 2001, 35, 343-362.	2.0	191
36	Phytoplankton dynamics in the NE subarctic Pacific. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 1999, 46, 2405-2432.	1.4	190

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37	Biological responses to environmental heterogeneity under future ocean conditions. <i>Global Change Biology</i> , 2016, 22, 2633-2650.	9.5	187
38	Evidence of the potential influence of planktonic community structure on the interannual variability of particulate organic carbon flux. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 1995, 42, 619-639.	1.4	186
39	Diurnal fluctuations in seawater pH influence the response of a calcifying macroalga to ocean acidification. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2013, 280, 20132201.	2.6	174
40	Biogeochemical iron budgets of the Southern Ocean south of Australia: Decoupling of iron and nutrient cycles in the subantarctic zone by the summertime supply. <i>Global Biogeochemical Cycles</i> , 2009, 23, .	4.9	164
41	The fate of added iron during a mesoscale fertilisation experiment in the Southern Ocean. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2001, 48, 2703-2743.	1.4	160
42	Marine phytoplankton and the changing ocean iron cycle. <i>Nature Climate Change</i> , 2016, 6, 1072-1079.	18.8	159
43	In vitro iron enrichment experiments in the NE subarctic Pacific. <i>Marine Ecology - Progress Series</i> , 1996, 136, 179-193.	1.9	159
44	Ocean Iron Fertilization—Moving Forward in a Sea of Uncertainty. <i>Science</i> , 2008, 319, 162-162.	12.6	156
45	Understanding the responses of ocean biota to a complex matrix of cumulative anthropogenic change. <i>Marine Ecology - Progress Series</i> , 2012, 470, 125-135.	1.9	155
46	Physiological responses of a Southern Ocean diatom to complex future ocean conditions. <i>Nature Climate Change</i> , 2016, 6, 207-213.	18.8	153
47	Iron–light interactions differ in Southern Ocean phytoplankton. <i>Limnology and Oceanography</i> , 2012, 57, 1182-1200.	3.1	150
48	Adaptive strategies by Southern Ocean phytoplankton to lessen iron limitation: Uptake of organically complexed iron and reduced cellular iron requirements. <i>Limnology and Oceanography</i> , 2011, 56, 1983-2002.	3.1	149
49	Metabolically induced <math>pH</math> fluctuations by some coastal calcifiers exceed projected 22nd century ocean acidification: a mechanism for differential susceptibility?. <i>Global Change Biology</i> , 2011, 17, 3254-3262.	9.5	148
50	The impact of a coccolithophore bloom on oceanic carbon uptake in the northeast Atlantic during summer 1991. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 1994, 41, 297-314.	1.4	146
51	Metrics that matter for assessing the ocean biological carbon pump. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 9679-9687.	7.1	145
52	Iron-binding ligands and their role in the ocean biogeochemistry of iron. <i>Environmental Chemistry</i> , 2007, 4, 221.	1.5	144
53	Aerosol iron deposition to the surface ocean – Modes of iron supply and biological responses. <i>Marine Chemistry</i> , 2010, 120, 128-143.	2.3	135
54	Production of organic and inorganic carbon within a large-scale coccolithophore bloom in the northeast Atlantic Ocean. <i>Marine Ecology - Progress Series</i> , 1993, 97, 271-285.	1.9	134

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55	Iron-mediated changes in phytoplankton photosynthetic competence during SOIREE. Deep-Sea Research Part II: Topical Studies in Oceanography, 2001, 48, 2529-2550.	1.4	133
56	Retention of dissolved iron and Ferric iron induced Southern Ocean phytoplankton bloom. Geophysical Research Letters, 2001, 28, 3425-3428.	4.0	132
57	Control of phytoplankton growth by iron supply and irradiance in the subantarctic Southern Ocean: Experimental results from the SAZ Project. Journal of Geophysical Research, 2001, 106, 31573-31583.	3.3	130
58	Acquisition of iron bound to strong organic complexes, with different Fe binding groups and photochemical reactivities, by plankton communities in Fe-limited subantarctic waters. Global Biogeochemical Cycles, 2005, 19, n/a-n/a.	4.9	130
59	Spinning the "Ferrous Wheel": The importance of the microbial community in an iron budget during the FeCycle experiment. Global Biogeochemical Cycles, 2005, 19, n/a-n/a.	4.9	128
60	Phytoplankton processes. Part 1: Community structure during the Southern Ocean Iron Release Experiment (SOIREE). Deep-Sea Research Part II: Topical Studies in Oceanography, 2001, 48, 2551-2570.	1.4	127
61	Control of phytoplankton growth by iron and silicic acid availability in the subantarctic Southern Ocean: Experimental results from the SAZ Project. Journal of Geophysical Research, 2001, 106, 31559-31572.	3.3	126
62	EXPERIMENTAL EVOLUTION MEETS MARINE PHYTOPLANKTON. Evolution; International Journal of Organic Evolution, 2013, 67, 1849-1859.	2.3	122
63	VERTIGO (VERTical Transport In the Global Ocean): A study of particle sources and flux attenuation in the North Pacific. Deep-Sea Research Part II: Topical Studies in Oceanography, 2008, 55, 1522-1539.	1.4	121
64	Co-limitation of phytoplankton growth by light and Fe during winter in the NE subarctic Pacific Ocean. Deep-Sea Research Part II: Topical Studies in Oceanography, 1999, 46, 2475-2485.	1.4	119
65	Atmospheric iron supply and enhanced vertical carbon flux in the NE subarctic Pacific: Is there a connection?. Global Biogeochemical Cycles, 1998, 12, 429-441.	4.9	114
66	FeCycle: Attempting an iron biogeochemical budget from a mesoscale SF6 tracer experiment in unperturbed low iron waters. Global Biogeochemical Cycles, 2005, 19, n/a-n/a.	4.9	114
67	Mapping phytoplankton iron utilization: Insights into Southern Ocean supply mechanisms. Journal of Geophysical Research, 2012, 117, .	3.3	113
68	Particulate iron dynamics during FeCycle in subantarctic waters southeast of New Zealand. Global Biogeochemical Cycles, 2006, 20, n/a-n/a.	4.9	112
69	Ocean fertilization for geoengineering: A review of effectiveness, environmental impacts and emerging governance. Chemical Engineering Research and Design, 2012, 90, 475-488.	5.6	110
70	Limitation of algal growth by iron deficiency in the Australian Subantarctic Region. Geophysical Research Letters, 1999, 26, 2865-2868.	4.0	109
71	The Southern Ocean Iron Release Experiment (SOIREE)â€”introduction and summary. Deep-Sea Research Part II: Topical Studies in Oceanography, 2001, 48, 2425-2438.	1.4	107
72	CLIMATE CHANGE: Will Ocean Fertilization Work?. Science, 2003, 300, 67-68.	12.6	107

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73	The evolution and termination of an iron-induced mesoscale bloom in the northeast subarctic Pacific. <i>Limnology and Oceanography</i> , 2005, 50, 1872-1886.	3.1	106
74	Pelagic ecosystem structure and functioning in the subtropical front region east of New Zealand in austral winter and spring 1993. <i>Journal of Plankton Research</i> , 1999, 21, 405-428.	1.8	105
75	Diffusion Boundary Layers Ameliorate the Negative Effects of Ocean Acidification on the Temperate Coralline Macroalga <i>Arthrocardia corymbosa</i> . <i>PLoS ONE</i> , 2014, 9, e97235.	2.5	105
76	BEFORE OCEAN ACIDIFICATION: CALCIFIER CHEMISTRY LESSONS <sup>1</sup> . <i>Journal of Phycology</i> , 2012, 48, 840-843.	2.3	104
77	Photosynthetic adaptation to low iron, light, and temperature in Southern Ocean phytoplankton. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 4388-4393.	7.1	104
78	A persistent subsurface chlorophyll maximum in the Interpolar Frontal Zone south of Australia: Seasonal progression and implications for phytoplankton-light-nutrient interactions. <i>Journal of Geophysical Research</i> , 2001, 106, 31543-31557.	3.3	103
79	Remineralization of upper ocean particles: Implications for iron biogeochemistry. <i>Limnology and Oceanography</i> , 2010, 55, 1271-1288.	3.1	103
80	Changing Biogeochemistry of the Southern Ocean and Its Ecosystem Implications. <i>Frontiers in Marine Science</i> , 2020, 7, .	2.5	100
81	Fe and Zn effects on the Si cycle and diatom community structure in two contrasting high and low-silicate HNLC areas. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2005, 52, 1842-1864.	1.4	98
82	Biotic and abiotic retention, recycling and remineralization of metals in the ocean. <i>Nature Geoscience</i> , 2017, 10, 167-173.	12.9	98
83	A novel delta-subdivision proteobacterial lineage from the lower ocean surface layer. <i>Applied and Environmental Microbiology</i> , 1997, 63, 1441-1448.	3.1	98
84	The importance of Antarctic krill in biogeochemical cycles. <i>Nature Communications</i> , 2019, 10, 4742.	12.8	97
85	Influence of ocean warming and acidification on trace metal biogeochemistry. <i>Marine Ecology - Progress Series</i> , 2012, 470, 191-205.	1.9	96
86	Biogeochemical extremes and compound events in the ocean. <i>Nature</i> , 2021, 600, 395-407.	27.8	96
87	Beyond ocean acidification. <i>Nature Geoscience</i> , 2011, 4, 273-274.	12.9	92
88	Transformations of biogenic particulates from the pelagic to the deep ocean realm. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 1999, 46, 2761-2792.	1.4	91
89	Ocean acidification increases the accumulation of toxic phenolic compounds across trophic levels. <i>Nature Communications</i> , 2015, 6, 8714.	12.8	91
90	Developing priority variables (‘‘ecosystem Essential Ocean Variables’’ eEOVs) for observing dynamics and change in Southern Ocean ecosystems. <i>Journal of Marine Systems</i> , 2016, 161, 26-41.	2.1	89

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91	Water column and sea-ice primary production during Austral spring in the Bellingshausen Sea. Deep-Sea Research Part II: Topical Studies in Oceanography, 1995, 42, 1177-1200.	1.4	88
92	Episodic enhancement of phytoplankton stocks in New Zealand subantarctic waters: Contribution of atmospheric and oceanic iron supply. Global Biogeochemical Cycles, 2004, 18, n/a-n/a.	4.9	88
93	Will krill fare well under Southern Ocean acidification?. Biology Letters, 2011, 7, 288-291.	2.3	87
94	Short- and long-term conditioning of a temperate marine diatom community to acidification and warming. Philosophical Transactions of the Royal Society B: Biological Sciences, 2013, 368, 20120437.	4.0	86
95	Diatom Proteomics Reveals Unique Acclimation Strategies to Mitigate Fe Limitation. PLoS ONE, 2013, 8, e75653.	2.5	86
96	Interannual variability in nitrate supply to surface waters of the Northeast Pacific Ocean. Marine Ecology - Progress Series, 1998, 170, 15-23.	1.9	85
97	Biogeochemistry of iron in Australian dust: From eolian uplift to marine uptake. Geochemistry, Geophysics, Geosystems, 2008, 9, .	2.5	84
98	Differential remineralization of major and trace elements in sinking diatoms. Limnology and Oceanography, 2014, 59, 689-704.	3.1	84
99	Biogeochemical controls of surface ocean phosphate. Science Advances, 2019, 5, eaax0341.	10.3	84
100	Modeling the relative contributions of autotrophs and heterotrophs to carbon flow at a Lagrangian JGOFS station in the Northeast Atlantic: The importance of DOC. Limnology and Oceanography, 1999, 44, 80-94.	3.1	83
101	Testing the climate intervention potential of ocean afforestation using the Great Atlantic Sargassum Belt. Nature Communications, 2021, 12, 2556.	12.8	79
102	Iron uptake and physiological response of phytoplankton during a mesoscale Southern Ocean iron enrichment. Limnology and Oceanography, 2001, 46, 1802-1808.	3.1	78
103	The role of iron in the biogeochemistry of the Southern Ocean and equatorial Pacific: a comparison of in situ iron enrichments. Deep-Sea Research Part II: Topical Studies in Oceanography, 2002, 49, 1803-1821.	1.4	78
104	Climate-mediated changes to mixed-layer properties in the Southern Ocean: assessing the phytoplankton response. Biogeosciences, 2008, 5, 847-864.	3.3	78
105	Size-fractionated primary productivity in the northeast Atlantic in May-July 1989. Deep-Sea Research Part II: Topical Studies in Oceanography, 1993, 40, 423-440.	1.4	77
106	Simulating the cloud processing of iron in Australian dust: pH and dust concentration. Geophysical Research Letters, 2005, 32, .	4.0	76
107	Vertical distributions of iron-(III) complexing ligands in the Southern Ocean. Deep-Sea Research Part II: Topical Studies in Oceanography, 2011, 58, 2113-2125.	1.4	75
108	Phytoplankton processes. Part 2: Rates of primary production and factors controlling algal growth during the Southern Ocean Iron Release Experiment (SOIREE). Deep-Sea Research Part II: Topical Studies in Oceanography, 2001, 48, 2571-2590.	1.4	74

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109	Role of algal aggregation in vertical carbon export during SOIREE and in other low biomass environments. <i>Geophysical Research Letters</i> , 2005, 32, .	4.0	74
110	The oceans' twilight zone must be studied now, before it is too late. <i>Nature</i> , 2020, 580, 26-28.	27.8	73
111	Spring blooms and annual cycles of phytoplankton: a unified perspective. <i>Journal of Plankton Research</i> , 2015, 37, 500-508.	1.8	72
112	Inorganic carbon uptake by Southern Ocean phytoplankton. <i>Limnology and Oceanography</i> , 2008, 53, 1266-1278.	3.1	70
113	Acoustic characterisation of the broad-scale distribution and abundance of Antarctic krill ( <i>Euphausia superba</i> ) off East Antarctica (30-80°E) in January-March 2006. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2010, 57, 916-933.	1.4	70
114	Ranking geo-engineering schemes. <i>Nature Geoscience</i> , 2008, 1, 722-724.	12.9	69
115	An experimental aquarium for observing the schooling behaviour of Antarctic krill ( <i>Euphausia</i> ) Tj ETQq1 1 0.784314 rsgBT /Overlock 10 T	1.4	69
116	Ecosystem Impacts of Geoengineering: A Review for Developing a Science Plan. <i>Ambio</i> , 2012, 41, 350-369.	5.5	69
117	Size-fractionated primary production and nitrogen uptake during a North Atlantic phytoplankton bloom: implications for carbon export estimates. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2001, 48, 689-720.	1.4	66
118	Effects of sinking velocities and microbial respiration rates on the attenuation of particulate carbon fluxes through the mesopelagic zone. <i>Global Biogeochemical Cycles</i> , 2015, 29, 175-193.	4.9	66
119	Western Pacific atmospheric nutrient deposition fluxes, their impact on surface ocean productivity. <i>Global Biogeochemical Cycles</i> , 2014, 28, 712-728.	4.9	63
120	Iron stable isotopes track pelagic iron cycling during a subtropical phytoplankton bloom. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E15-20.	7.1	63
121	Development of a robust marine ecosystem model to predict the role of iron in biogeochemical cycles: A comparison of results for iron-replete and iron-limited areas, and the SOIREE iron-enrichment experiment. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2006, 53, 333-366.	1.4	61
122	Microbial control of diatom bloom dynamics in the open ocean. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	61
123	standing stocks. <i>Marine Ecology - Progress Series</i> , 1995, 128, 11-24.	1.9	61
124	Seasonal and spatial patterns of heterotrophic bacterial production, respiration, and biomass in the subarctic NE Pacific. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 1999, 46, 2557-2578.	1.4	60
125	Phytoplankton distributions and production in the Bellingshausen sea, Austral spring 1992. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 1995, 42, 1201-1224.	1.4	59
126	Long-Term Conditioning to Elevated pCO <sub>2</sub> and Warming Influences the Fatty and Amino Acid Composition of the Diatom <i>Cylindrotheca fusiformis</i> . <i>PLoS ONE</i> , 2015, 10, e0123945.	2.5	57



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127	Coastal ocean and shelf-sea biogeochemical cycling of trace elements and isotopes: lessons learned from GEOTRACES. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2016, 374, 20160076.	3.4	56
128	Current understanding and challenges for oceans in a higher-CO <sub>2</sub> world. <i>Nature Climate Change</i> , 2018, 8, 686-694.	18.8	55
129	Exploring the ecology of the mesopelagic biological pump. <i>Progress in Oceanography</i> , 2019, 176, 102125.	3.2	55
130	Circumpolar projections of Antarctic krill growth potential. <i>Nature Climate Change</i> , 2020, 10, 568-575.	18.8	54
131	Pilot trophic model for subantarctic water over the Southern Plateau, New Zealand: a low biomass, high transfer efficiency system. <i>Journal of Experimental Marine Biology and Ecology</i> , 2003, 289, 223-262.	1.5	53
132	A mechanism for onset of diatom blooms in a fjord with persistent salinity stratification. <i>Estuarine, Coastal and Shelf Science</i> , 2005, 64, 546-560.	2.1	53
133	Barium in twilight zone suspended matter as a potential proxy for particulate organic carbon remineralization: Results for the North Pacific. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2008, 55, 1673-1683.	1.4	53
134	Forensic carbon accounting: Assessing the role of seaweeds for carbon sequestration. <i>Journal of Phycology</i> , 2022, 58, 347-363.	2.3	53
135	OCEAN SCIENCE: Ironing Out Algal Issues in the Southern Ocean. <i>Science</i> , 2004, 304, 396-397.	12.6	51
136	Toward a Regional Classification to Provide a More Inclusive Examination of the Ocean Biogeochemistry of Iron-Binding Ligands. <i>Frontiers in Marine Science</i> , 0, 4, .	2.5	51
137	Temporal changes in particle-associated microbial communities after interception by nonlethal sediment traps. <i>FEMS Microbiology Ecology</i> , 2014, 87, 153-163.	2.7	50
138	Environmental controls on the growth, photosynthetic and calcification rates of a Southern Hemisphere strain of the coccolithophore <i>Emiliania huxleyi</i> . <i>Limnology and Oceanography</i> , 2017, 62, 519-540.	3.1	50
139	Distinct iron cycling in a Southern Ocean eddy. <i>Nature Communications</i> , 2020, 11, 825.	12.8	50
140	Predicting and verifying the intended and unintended consequences of large-scale ocean iron fertilization. <i>Marine Ecology - Progress Series</i> , 2008, 364, 295-301.	1.9	50
141	Phytoplankton production and biomass estimates in the northeast Atlantic Ocean, May-June 1990. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 1995, 42, 599-617.	1.4	48
142	In vitro iron enrichment experiments at iron-rich and -poor sites in the NE subarctic Pacific. <i>Journal of Experimental Marine Biology and Ecology</i> , 1998, 227, 133-151.	1.5	48
143	The krill maturity cycle: a conceptual model of the seasonal cycle in Antarctic krill. <i>Polar Biology</i> , 2007, 30, 689-698.	1.2	48
144	Modes of interactions between environmental drivers and marine biota. <i>Frontiers in Marine Science</i> , 2015, 2, .	2.5	48

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145	Deciphering diatom biochemical pathways via whole-cell proteomics. <i>Aquatic Microbial Ecology</i> , 2009, 55, 241-253.	1.8	48
146	Implications of large-scale iron fertilization of the oceans. <i>Marine Ecology - Progress Series</i> , 2008, 364, 213-218.	1.9	47
147	Winter-time dissolved iron and nutrient distributions in the Subantarctic Zone from 40°S; 155°-160E. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	46
148	The NE subarctic Pacific in winter:II. Biological rate processes. <i>Marine Ecology - Progress Series</i> , 1995, 128, 25-34.	1.9	45
149	Evidence for the Impact of Climate Change on Primary Producers in the Southern Ocean. <i>Frontiers in Ecology and Evolution</i> , 2021, 9, .	2.2	45
150	Rate and fate of dissolved organic carbon release by seaweeds: A missing link in the coastal ocean carbon cycle. <i>Journal of Phycology</i> , 2021, 57, 1375-1391.	2.3	44
151	Luminescent Whole-Cell Cyanobacterial Bioreporter for Measuring Fe Availability in Diverse Marine Environments. <i>Applied and Environmental Microbiology</i> , 2007, 73, 1019-1024.	3.1	43
152	Physical mixing effects on iron biogeochemical cycling: FeCycle experiment. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	43
153	Quantifying the surface-subsurface biogeochemical coupling during the VERTIGO ALOHA and K2 studies. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2008, 55, 1578-1593.	1.4	43
154	Modeling the bloom evolution and carbon flows during SOIREE: Implications for future in situ iron-enrichments in the Southern Ocean. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2001, 48, 2745-2773.	1.4	42
155	The Impact of Climate Change and Feedback Processes on the Ocean Carbon Cycle. , 2003, , 157-193.		42
156	Evolution, Microbes, and Changing Ocean Conditions. <i>Annual Review of Marine Science</i> , 2020, 12, 181-208.	11.6	42
157	Patch evolution and the biogeochemical impact of entrainment during an iron fertilisation experiment in the sub-Arctic Pacific. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2006, 53, 2012-2033.	1.4	41
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