Oscar M Schofield

List of Publications by Year
in descending order

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228 papers	13,216 citations	23567 58 h-index	27406 106 g-index

240 all docs	240 docs citations	240 times ranked	12104 citing authors

#	Article	IF	Citations
1	The Evolution of Modern Eukaryotic Phytoplankton. Science, 2004, 305, 354-360.	12.6	1,287
2	The role of functional traits and tradeâ€offs in structuring phytoplankton communities: scaling from cellular to ecosystem level. Ecology Letters, 2007, 10, 1170-1181.	6.4	699
3	Recent Changes in Phytoplankton Communities Associated with Rapid Regional Climate Change Along the Western Antarctic Peninsula. Science, 2009, 323, 1470-1473.	12.6	579
4	The evolutionary inheritance of elemental stoichiometry in marine phytoplankton. Nature, 2003, 425, 291-294.	27.8	481
5	Alteration of the food web along the Antarctic Peninsula in response to a regional warming trend. Global Change Biology, 2004, 10, 1973-1980.	9.5	332
6	How Do Polar Marine Ecosystems Respond to Rapid Climate Change?. Science, 2010, 328, 1520-1523.	12.6	310
7	Scaling-up from nutrient physiology to the size-structure of phytoplankton communities. Journal of Plankton Research, 2006, 28, 459-471.	1.8	288
8	Seasonal time bombs: dominant temperate viruses affect Southern Ocean microbial dynamics. ISME Journal, 2016, 10, 437-449.	9.8	257
9	West Antarctic Peninsula: An Ice-Dependent Coastal Marine Ecosystem in Transition. Oceanography, 2013, 26, 190-203.	1.0	249
10	Winter and spring controls on the summer food web of the coastal West Antarctic Peninsula. Nature Communications, 2014, 5, 4318.	12.8	231
11	Slocum Gliders: Robust and ready. Journal of Field Robotics, 2007, 24, 473-485.	6.0	228
12	Growing a Distributed Ocean Observatory: Our View from the COOL Room. Oceanography, 2009, 22, 128-145.	1.0	219
13	The role of nutricline depth in regulating the ocean carbon cycle. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 20344-20349.	7.1	214
14	Detection of harmful algal blooms using photopigments and absorption signatures: A case study of the Florida red tide dinoflagellate, Gymnodinium breve. Limnology and Oceanography, 1997, 42, 1240-1251.	3.1	185
15	THE ROLE AND EVOLUTION OF SUPEROXIDE DISMUTASES IN ALGAE1. Journal of Phycology, 2005, 41, 453-465.	2.3	179
16	Climatically driven macroevolutionary patterns in the size of marine diatoms over the Cenozoic. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 8927-8932.	7.1	172
17	Resource limitation alters the 3/4 size scaling of metabolic rates in phytoplankton. Marine Ecology - Progress Series, 2004, 273, 269-279.	1.9	155
18	Long-term (1993â€“2013) changes in macrozooplankton off the Western Antarctic Peninsula. Deep-Sea Research Part I: Oceanographic Research Papers, 2015, 101, 54-70.	1.4	143

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19	The mode and tempo of genome size evolution in eukaryotes. Genome Research, 2007, 17, 594-601.	5.5	140
20	Multi-nutrient, multi-group model of present and future oceanic phytoplankton communities. Biogeosciences, 2006, 3, 585-606.	3.3	139
21	Decadal variability in coastal phytoplankton community composition in a changing West Antarctic Peninsula. Deep-Sea Research Part I: Oceanographic Research Papers, 2017, 124, 42-54.	1.4	138
22	Stratified coastal ocean interactions with tropical cyclones. Nature Communications, 2016, 7, 10887.	12.8	133
23	Influence of zeaxanthin on quantum yield of photosynthesis of Synechococcus clone WH7803 (DC2). Marine Ecology - Progress Series, 1989, 56, 177-188.	1.9	130
24	Optical discrimination of a phytoplankton species in natural mixed populations. Limnology and Oceanography, 2000, 45, 467-471.	3.1	125
25	INTRASPECIFIC GENETIC DIVERSITY IN THE MARINE COCCOLITHOPHORE EMILIANIA HUXLEYI (PRYMNESIOPHYCEAE): THE USE OF MICROSATELLITE ANALYSIS IN MARINE PHYTOPLANKTON POPULATION STUDIES1. Journal of Phycology, 2006, 42, 526-536.	2.3	121
26	ASPIRE: The Amundsen Sea Polynya International Research Expedition. Oceanography, 2012, 25, 40-53.	1.0	116
27	Monitoring ocean biogeochemistry with autonomous platforms. Nature Reviews Earth & Environment, 2020, 1, 315-326.	29.7	114
28	OPTICAL MONITORING AND FORECASTING SYSTEMS FOR HARMFUL ALGAL BLOOMS: POSSIBILITY OR PIPE DREAM?. Journal of Phycology, 1999, 35, 1477-1496.	2.3	112
29	Historical climate change and ocean turbulence as selective agents for two key phytoplankton functional groups. Marine Ecology - Progress Series, 2004, 274, 123-132.	1.9	111
30	Variability and change in the west Antarctic Peninsula marine system: Research priorities and opportunities. Progress in Oceanography, 2019, 173, 208-237.	3.2	102
31	A universal driver of macroevolutionary change in the size of marine phytoplankton over the Cenozoic. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 20416-20420.	7.1	101
32	Irradiance and the elemental stoichiometry of marine phytoplankton. Limnology and Oceanography, 2006, 51, 2690-2701.	3.1	100
33	Using absorbance and fluorescence spectra to discriminate microalgae. European Journal of Phycology, 2002, 37, 313-322.	2.0	97
34	The function of plastids in the deepâ€sea benthic foraminifer, Nonionella stella. Limnology and Oceanography, 2002, 47, 1569-1580.	3.1	92
35	Developing priority variables (â€œecosystem Essential Ocean Variablesâ€•â€” eEOVs) for observing dynamics and change in Southern Ocean ecosystems. Journal of Marine Systems, 2016, 161, 26-41.	2.1	89
36	The Long-term Ecosystem Observatory: an integrated coastal observatory. IEEE Journal of Oceanic Engineering, 2002, 27, 146-154.	3.8	86

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37	Use of hyperspectral remote sensing reflectance for detection and assessment of the harmful alga, Karenia brevis. Applied Optics, 2006, 45, 5414.	2.1	83
38	Localization and Role of Manganese Superoxide Dismutase in a Marine Diatom. Plant Physiology, 2006, 142, 1701-1709.	4.8	82
39	Multiscale control of bacterial production by phytoplankton dynamics and sea ice along the western Antarctic Peninsula: A regional and decadal investigation. Journal of Marine Systems, 2012, 98-99, 26-39.	2.1	82
40	Carbon fluxes and pelagic ecosystem dynamics near two western Antarctic Peninsula AdÃ©lie penguin colonies: an inverse model approach. Marine Ecology - Progress Series, 2013, 492, 253-272.	1.9	81
41	Bulge Formation of a Buoyant River Outflow. Journal of Geophysical Research, 2008, 113, .	3.3	77
42	Fluorescence characteristics of organic matter released from coastal sediments during resuspension. Marine Chemistry, 2002, 79, 81-97.	2.3	74
43	THE MESOZOIC RADIATION OF EUKARYOTIC ALGAE: THE PORTABLE PLASTID HYPOTHESIS¹. Journal of Phycology, 2003, 39, 259-267.	2.3	73
44	Defining the ecologically relevant mixedâ€layer depth for Antarctica's coastal seas. Geophysical Research Letters, 2017, 44, 338-345.	4.0	73
45	IMPACT OF ULTRAVIOLET-B RADIATION ON PHOTOSYSTEM II ACTIVITY AND ITS RELATIONSHIP TO THE INHIBITION OF CARBON FIXATION RATES FOR ANTARCTIC ICE ALGAE COMMUNITIES1. Journal of Phycology, 1995, 31, 703-715.	2.3	72
46	Adaptive Evolution of Phytoplankton Cell Size. American Naturalist, 2005, 166, 496-505.	2.1	72
47	Glider observations of sediment resuspension in a Middle Atlantic Bight fall transition storm. Limnology and Oceanography, 2008, 53, 2180-2196.	3.1	72
48	The control of the production process of phytoplankton by the physical structure of the aquatic environment with special reference to its optical properties. Aquatic Sciences, 1991, 53, 136-186.	1.5	71
49	Seasonal evolution of hydrographic fields in the central Middle Atlantic Bight from glider observations. Geophysical Research Letters, 2008, 35, .	4.0	71
50	Glider observations and modeling of sediment transport in <scp>H</scp>urricane <scp>S</scp>andy. Journal of Geophysical Research: Oceans, 2015, 120, 1771-1791.	2.6	69
51	Simulation of Water Age and Residence Time in New York Bight. Journal of Physical Oceanography, 2010, 40, 965-982.	1.7	67
52	Summertime grazing impact of the dominant macrozooplankton off the Western Antarctic Peninsula. Deep-Sea Research Part I: Oceanographic Research Papers, 2012, 62, 111-122.	1.4	67
53	Delivering Sustained, Coordinated, and Integrated Observations of the Southern Ocean for Global Impact. Frontiers in Marine Science, 2019, 6, .	2.5	67
54	Competitive dynamics in two species of marine phytoplankton under non-equilibrium conditions. Marine Ecology - Progress Series, 2011, 429, 19-28.	1.9	67

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55	CHROMATIC REGULATION OF QUANTUM YIELDS FOR PHOTOSYSTEM II CHARGE SEPARATION, OXYGEN EVOLUTION, AND CARBON FIXATION IN HETEROCAPSA PYGMAEA (PYRROPHYTA)1. Journal of Phycology, 1993, 29, 453-462.	2.3	65
56	Changes in the upper ocean mixed layer and phytoplankton productivity along the West Antarctic Peninsula. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2018, 376, 20170173.	3.4	62
57	Enhanced oceanic CO2 uptake along the rapidly changing West Antarctic Peninsula. Nature Climate Change, 2019, 9, 678-683.	18.8	62
58	Characterization of Sulfate Assimilation in Marine Algae Focusing on the Enzyme 5â€²-Adenylylsulfate Reductase1. Plant Physiology, 2000, 123, 1087-1096.	4.8	61
59	Controls on dissolved and particulate iron distributions in surface waters of the Western Antarctic Peninsula shelf. Marine Chemistry, 2017, 196, 81-97.	2.3	60
60	Biogeochemical impact of summertime coastal upwelling on the New Jersey Shelf. Journal of Geophysical Research, 2004, 109, .	3.3	57
61	Increased Feeding and Nutrient Excretion of Adult Antarctic Krill, Euphausia superba, Exposed to Enhanced Carbon Dioxide (CO2). PLoS ONE, 2012, 7, e52224.	2.5	57
62	Watercolors in the Coastal Zone: What Can We See?. Oceanography, 2004, 17, 24-31.	1.0	57
63	PHOTOSYSTEM II QUANTUM YIELDS AND XANTHOPHYLL-CYCLE PIGMENTS OF THE MACROALGA SARGASSUM NATANS (PHAEOPHYCEAE): RESPONSES UNDER NATURAL SUNLIGHT. Journal of Phycology, 1998, 34, 104-112.	2.3	55
64	Effects of phytoplankton physiology on export flux. Marine Ecology - Progress Series, 2008, 354, 3-19.	1.9	54
65	Bioinformatic approaches for objective detection of water masses on continental shelves. Journal of Geophysical Research, 2004, 109, .	3.3	53
66	Towards Quantitative Microbiome Community Profiling Using Internal Standards. Applied and Environmental Microbiology, 2019, 85, .	3.1	52
67	Aragonite Precipitation by â€œProto-Polypsâ€•in Coral Cell Cultures. PLoS ONE, 2012, 7, e35049.	2.5	51
68	Mixing and phytoplankton dynamics in a submarine canyon in the West Antarctic Peninsula. Journal of Geophysical Research: Oceans, 2016, 121, 5069-5083.	2.6	50
69	Distribution of <scp>U</scp>pper <scp>C</scp>ircumpolar <scp>D</scp>eep <scp>W</scp>ater on the warming continental shelf of the <scp>W</scp>est <scp>A</scp>ntarctic <scp>P</scp>eninsula. Journal of Geophysical Research: Oceans, 2017, 122, 5306-5315.	2.6	49
70	Effect of continental shelf canyons on phytoplankton biomass and community composition along the western Antarctic Peninsula. Marine Ecology - Progress Series, 2015, 524, 11-26.	1.9	48
71	The Decadal View of the Mid-Atlantic Bight from the COOLroom: Is Our Coastal System Changing?. Oceanography, 2008, 21, 108-117.	1.0	47
72	Rapid shelfâ€wide cooling response of a stratified coastal ocean to hurricanes. Journal of Geophysical Research: Oceans, 2017, 122, 4845-4867.	2.6	47

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73	Spectral photosynthesis, quantum yield and blue-green light enhancement of productivity rates in the diatom Chaetoceros gracile and the prymnesiophyte Emiliania huxleyi. Marine Ecology - Progress Series, 1990, 64, 175-186.	1.9	47
74	Crossâ€shelf transport of freshwater on the New Jersey shelf. Journal of Geophysical Research, 2008, 113, .	3.3	46
75	Synergy of light and nutrients on the photosynthetic efficiency of phytoplankton populations from the Neuse River Estuary, North Carolina. Journal of Plankton Research, 2002, 24, 923-933.	1.8	45
76	Seasonal variability of chlorophyll a in the Mid-Atlantic Bight. Continental Shelf Research, 2011, 31, 1640-1650.	1.8	45
77	Penguin Biogeography Along the West Antarctic Peninsula: Testing the Canyon Hypothesis with Palmer LTER Observationsf. Oceanography, 2013, 26, 204-206.	1.0	45
78	Resolving the Impacts and Feedback of Ocean Optics on Upper Ocean Ecology. Oceanography, 2001, 14, 30-53.	1.0	44
79	Hurricane Irene Sensitivity to Stratified Coastal Ocean Cooling. Monthly Weather Review, 2016, 144, 3507-3530.	1.4	44
80	Inter-decadal variability of phytoplankton biomass along the coastal West Antarctic Peninsula. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2018, 376, 20170174.	3.4	44
81	Dispersal of the Hudson River Plume in the New York Bight: Synthesis of Observational and Numerical Studies During LaTTE. Oceanography, 2008, 21, 148-161.	1.0	43
82	From the light to the darkness: thriving at the light extremes in the oceans. Hydrobiologia, 2010, 639, 153-171.	2.0	43
83	Why is the Land Green and the Ocean Red?. , 2004, , 429-453.		42
84	Fe availability drives phytoplankton photosynthesis rates during spring bloom in the Amundsen Sea Polynya, Antarctica. Elementa, 2015, 3, .	3.2	42
85	Inversion of spectral absorption in the optically complex coastal waters of the Mid-Atlantic Bight. Journal of Geophysical Research, 2004, 109, .	3.3	41
86	Responses of Antarctic Marine and Freshwater Ecosystems to Changing Ice Conditions. BioScience, 2016, 66, 864-879.	4.9	41
87	Vertical migration of the toxic dinoflagellateKarenia brevisand the impact on ocean optical properties. Journal of Geophysical Research, 2006, 111, .	3.3	40
88	Spatiotemporal path planning in strong, dynamic, uncertain currents. , 2010, , .		40
89	The vision for a Southern Ocean Observing System. Current Opinion in Environmental Sustainability, 2013, 5, 306-313.	6.3	40
90	WAVELENGTH DEPENDENCY OF THE MAXIMUM QUANTUM YIELD OF CARBON FIXATION FOR TWO RED TIDE DINOFLAGELLATES, HETEROCAPSA PYGMAEA AND PROROCENTRUM MINIMUM (PYRROPHYTA): IMPLICATIONS FOR MEASURING PHOTOSYNTHETIC RATES1. Journal of Phycology, 1996, 32, 574-583.	2.3	39

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91	Dynamics of turbid buoyant plumes and the feedbacks on nearâ€shore biogeochemistry and physics. Geophysical Research Letters, 2008, 35, .	4.0	39
92	AdÃ©lie Penguin Foraging Location Predicted by Tidal Regime Switching. PLoS ONE, 2013, 8, e55163.	2.5	39
93	Satellite Remote Sensing in Support of an Integrated Ocean Observing System. IEEE Geoscience and Remote Sensing Magazine, 2013, 1, 8-18.	9.6	35
94	A Nonmarine Source of Variability in AdÃ©lie Penguin Demography. Oceanography, 2013, 26, 207-209.	1.0	35
95	Lagrangian coherent structure assisted path planning for transoceanic autonomous underwater vehicle missions. Scientific Reports, 2018, 8, 4575.	3.3	35
96	Temperature, salinity, and density variability in the central Middle Atlantic Bight. Journal of Geophysical Research, 2010, 115, .	3.3	34
97	Variability in bacterial community structure during upwelling in the coastal ocean. Hydrobiologia, 1999, 401, 139-148.	2.0	33
98	Monochromatic ultraviolet light induced damage to Photosystem II efficiency and carbon fixation in the marine diatom Thalassiosira pseudonana (3H). Photosynthesis Research, 2001, 68, 181-192.	2.9	33
99	Dynamics and optics of the Hudson River outflow plume. Journal of Geophysical Research, 2003, 108, .	3.3	33
100	Continuous Hyperspectral Absorption Measurements of Colored Dissolved Organic Material in Aquatic Systems. Applied Optics, 2003, 42, 6564.	2.1	33
101	Phylogenetic diversity in cadmium : phosphorus ratio regulation by marine phytoplankton. Limnology and Oceanography, 2007, 52, 1131-1138.	3.1	33
102	Blue light effects on light-limited rates of photosynthesis: relationship to pigmentation and productivity estimates for Synechococcus populations from the Sargasso Sea. Marine Ecology - Progress Series, 1989, 54, 121-136.	1.9	33
103	Impacts of a recurrent resuspension event and variable phytoplankton community composition on remote sensing reflectance. Journal of Geophysical Research, 2004, 109, .	3.3	32
104	Automated Sensor Network to Advance Ocean Science. Eos, 2010, 91, 345-346.	0.1	32
105	Variability in spectral and nonspectral measurements of photosynthetic light utilization efficiencies. Marine Ecology - Progress Series, 1991, 78, 253-271.	1.9	32
106	In situ photosynthetic quantum yield. Correspondence to hydrographic and optical variability within the Southern California Bight. Marine Ecology - Progress Series, 1993, 93, 25-37.	1.9	32
107	Physical-Biological Coupling in Southern Lake Michigan: Influence of Episodic Sediment Resuspension on Phytoplankton. Aquatic Ecology, 2003, 37, 393-408.	1.5	30
108	The Southern Ocean Observing System. Oceanography, 2012, 25, 68-69.	1.0	30

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109	The imbalance of new and export production in the western Antarctic Peninsula, a potentially â€œleakyâ€• ecosystem. Global Biogeochemical Cycles, 2015, 29, 1400-1420.	4.9	30
110	Glider observations of the Dotson Ice Shelf outflow. Deep-Sea Research Part II: Topical Studies in Oceanography, 2016, 123, 16-29.	1.4	30
111	In situ phytoplankton distributions in the Amundsen Sea Polynya measured by autonomous gliders. Elementa, 2015, 3, .	3.2	30
112	Biological Responses in a Dynamic Buoyant River Plume. Oceanography, 2008, 21, 70-89.	1.0	29
113	Factors that affect the nearshore aggregations of Antarctic krill in a biological hotspot. Deep-Sea Research Part I: Oceanographic Research Papers, 2017, 126, 139-147.	1.4	29
114	Temporal and spatial variability in fall storm induced sediment resuspension on the Mid-Atlantic Bight. Continental Shelf Research, 2013, 63, S36-S49.	1.8	28
115	Deriving in situ phytoplankton absorption for bio-optical productivity models in turbid waters. Journal of Geophysical Research, 2004, 109, .	3.3	27
116	Synergistic applications of autonomous underwater vehicles and the regional ocean modeling system in coastal ocean forecasting. Limnology and Oceanography, 2008, 53, 2251-2263.	3.1	27
117	Autonomous Gliders Reveal Features of the Water Column Associated with Foraging by Adelie Penguins. Integrative and Comparative Biology, 2010, 50, 1041-1050.	2.0	27
118	The Trans-Atlantic Slocum Glider Expeditions: A Catalyst for Undergraduate Participation in Ocean Science and Technology. Marine Technology Society Journal, 2011, 45, 52-67.	0.4	26
119	PHYTOPLANKTON PIGMENTS IN COASTAL LAKE MICHIGAN: DISTRIBUTIONS DURING THE SPRING ISOTHERMAL PERIOD AND RELATION WITH EPISODIC SEDIMENT RESUSPENSION1. Journal of Phycology, 2002, 38, 639-648.	2.3	25
120	Trichodesmium-derived dissolved organic matter is a source of nitrogen capable of supporting the growth of toxic red tide Karenia brevisÂ. Marine Ecology - Progress Series, 2013, 483, 31-45.	1.9	25
121	Functioning of Coastal River-Dominated Ecosystems and Implications for Oil Spill Response: From Observations to Mechanisms and Models. Oceanography, 2018, 31, .	1.0	24
122	Zooplankton diel vertical migration during Antarctic summer. Deep-Sea Research Part I: Oceanographic Research Papers, 2020, 162, 103324.	1.4	24
123	Decline in plankton diversity and carbon flux with reduced sea ice extent along the Western Antarctic Peninsula. Nature Communications, 2021, 12, 4948.	12.8	24
124	Observing the Oceans from the COOL Room: Our History, Experience, and Opinions. Oceanography, 2003, 16, 37-52.	1.0	24
125	Photosynthetic parameters and empirical modelling of primary production: a case study on the Antarctic Peninsula shelf. Antarctic Science, 1998, 10, 45-54.	0.9	23
126	Seasonal forcing of summer dissolved inorganic carbon and chlorophyll a on the western shelf of the Antarctic Peninsula. Journal of Geophysical Research, 2010, 115, .	3.3	23

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127	Role of wind in regulating phytoplankton blooms on the Mid-Atlantic Bight. Continental Shelf Research, 2013, 63, S26-S35.	1.8	23
128	Springâ€“summer net community production, new production, particle export and related water column biogeochemical processes in the marginal sea ice zone of the Western Antarctic Peninsula 2012â€“2014. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2018, 376, 20170177.	3.4	23
129	A Regional Slocum Glider Network in the Mid-Atlantic Bight Leverages Broad Community Engagement. Marine Technology Society Journal, 2010, 44, 185-195.	0.4	22
130	Slocum Glider energy measurement and simulation infrastructure. , 2010, , .		22
131	Copepod summer grazing and fecal pellet production along the Western Antarctic Peninsula. Journal of Plankton Research, 2016, 38, 732-750.	1.8	22
132	Station-Keeping Underwater Gliders Using a Predictive Ocean Circulation Model and Applications to SWOT Calibration and Validation. IEEE Journal of Oceanic Engineering, 2020, 45, 371-384.	3.8	20
133	Predicting the optical properties of the West Florida Shelf: resolving the potential impacts of a terrestrial boundary condition on the distribution of colored dissolved and particulate matter. Marine Chemistry, 2005, 95, 199-233.	2.3	18
134	Coastal Sediment Dynamics and River Discharge as Key Factors Influencing Coastal Ecosystem Productivity in Southeastern Lake Michigan. Oceanography, 2008, 21, 60-69.	1.0	18
135	Multiscale forecasting in the western North Atlantic: Sensitivity of model forecast skill to glider data assimilation. Continental Shelf Research, 2013, 63, S159-S176.	1.8	17
136	Developing Coordinated Communities of Autonomous Gliders for Sampling Coastal Ecosystems. Marine Technology Society Journal, 2015, 49, 9-16.	0.4	17
137	Photosynthetic energy conversion efficiency in the West Antarctic Peninsula. Limnology and Oceanography, 2020, 65, 2912-2925.	3.1	17
138	Impact of temperature acclimation on photosynthesis in the toxic red-tide dinoflagellate Alexandriumfundyense (Ca28). Journal of Plankton Research, 1998, 20, 1241-1258.	1.8	16
139	Cyberinfrastructure for the US Ocean Observatories Initiative: Enabling interactive observation in the ocean. , 2009, , .		16
140	Zooplankton avoidance of a profiled open-path fluorometer. Journal of Plankton Research, 2010, 32, 1413-1419.	1.8	15
141	Development of Regional Coastal Ocean Observatories and the Potential Benefits to Marine Sanctuaries. Marine Technology Society Journal, 2003, 37, 54-67.	0.4	14
142	Interannual variability in net community production at the Western Antarctic Peninsula region (1997â€“2014). Journal of Geophysical Research: Oceans, 2016, 121, 4748-4762.	2.6	14
143	Testing the Canyon Hypothesis: Evaluating light and nutrient controls of phytoplankton growth in penguin foraging hotspots along the West Antarctic Peninsula. Limnology and Oceanography, 2020, 65, 455-470.	3.1	14
144	PREFACE THE IMPORTANCE OF UNDERSTANDING THE MOLECULAR, CELLULAR, AND ECOPHYSIOLOGICAL BASES OF HARMFUL ALGAL BLOOMS. Journal of Phycology, 1999, 35, 1353-1355.	2.3	13

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145	The Effects of Tides and Oscillatory Winds on the Subtidal Inner-Shelf Cross-Shelf Circulation. Journal of Physical Oceanography, 2010, 40, 775-788.	1.7	13
146	Origin and Attenuation of Mesoscale Structure in Circumpolar Deep Water Intrusions to an Antarctic Shelf. Journal of Physical Oceanography, 2019, 49, 1293-1318.	1.7	13
147	Low diversity of a key phytoplankton group along the West Antarctic Peninsula. Limnology and Oceanography, 2021, 66, 2470-2480.	3.1	13
148	Characterization of the light field in laboratory scale enclosures of eutrophic lake water (Lake) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 622	2.0	12
149	Evaluation of Field Studies of UVB Radiation Effects on Antarctic Marine Primary Productivity. , 1994, , 181-194.		12
150	The Expanding Role of Ocean Color and Optics in the Changing Field of Operational Oceanography. Oceanography, 2004, 17, 86-95.	1.0	12
151	Response to Comment on "The Evolution of Modern Eukaryotic Phytoplankton". Science, 2004, 306, 2191c-2191c.	12.6	11
152	Phytoplankton productivity in a turbid buoyant coastal plume. Continental Shelf Research, 2013, 63, S138-S148.	1.8	11
153	Optical monitoring of phytoplankton bloom pigment signatures. , 2011, , 538-606.		10
154	<scp>FIRe</scp> glider: Mapping in situ chlorophyll variable fluorescence with autonomous underwater gliders. Limnology and Oceanography: Methods, 2020, 18, 531-545.	2.0	10
155	Krill availability in adjacent AdÃ©lie and gentoo penguin foraging regions near Palmer Station, Antarctica. Limnology and Oceanography, 2021, 66, 2234-2250.	3.1	10
156	Localâ€•and Largeâ€Scale Drivers of Variability in the Coastal Freshwater Budget of the Western Antarctic Peninsula. Journal of Geophysical Research: Oceans, 2021, 126, e2021JC017172.	2.6	10
157	Density dependent expression of a diatom retrotransposon. Marine Genomics, 2010, 3, 145-150.	1.1	9
158	Mapping the Mid-Atlantic Cold Pool evolution and variability with ocean gliders and numerical models. , 2012, , .		9
159	New Sensors for Ocean Observing. , 2015, , 326-350.		9
160	Remote Real-Time Video-Enabled Docking for Underwater Autonomous Platforms. Journal of Atmospheric and Oceanic Technology, 2009, 26, 2665-2672.	1.3	8
161	Assessing Noxious Phytoplankton in Aquaculture Systems Using Bio-Optical Methodologies: A Review. Journal of the World Aquaculture Society, 1995, 26, 329-345.	2.4	7
162	Introduction to special section: Coastal Ocean Observatories. Journal of Geophysical Research, 2004, 109, .	3.3	7

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163	Bacteriocidal effects of brevetoxin on natural microbial communities. Harmful Algae, 2014, 38, 101-109.	4.8	7
164	Ocean predictive skill assessments in the South Atlantic: Crowd-sourcing of student-based discovery. , 2014, , .		7
165	Modeling Phytoplankton Blooms and Inorganic Carbon Responses to Seaâ€Ice Variability in the West Antarctic Peninsula. Journal of Geophysical Research G: Biogeosciences, 2021, 126, e2020JG006227.	3.0	7
166	SPATIAL AND TEMPORAL VARIABILITY OF BIOLUMINESCENCE POTENTIAL IN COASTAL REGIONS. , 2001, , .		7
167	The emergence of regularity and variability in marine ecosystems: the combined role of physics, chemistry and biology. Scientia Marina, 2011, 75, 719-731.	0.6	7
168	Implementation of energy harvesting system for powering thermal gliders for long duration ocean research. , 2015, , .		6
169	Education and Public Engagement in OOI: Lessons Learned from the Field. Oceanography, 2018, 31, 138-146.	1.0	6
170	Physical processes controlling chlorophyll-a variability on the Mid-Atlantic Bight along northeast United States. Journal of Marine Systems, 2020, 212, 103433.	2.1	6
171	The Robot Ocean Network. American Scientist, 2013, 101, 434.	0.1	6
172	Letting Penguins Lead: Dynamic Modeling of Penguin Locations Guides Autonomous Robotic Sampling. Oceanography, 2012, 25, 120-121.	1.0	6
173	Variability in spectral backscatter estimated from satellites and its relation to in situ measurements in optically complex coastal waters. International Journal of Remote Sensing, 2004, 25, 1465-1468.	2.9	5
174	Automated, in-water determination of colored dissolved organic material and phytoplankton community structure using the optical phytoplankton discriminator. Proceedings of SPIE, 2011, , .	0.8	5
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