List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Mesoscale Iron Enrichment Experiments 1993-2005: Synthesis and Future Directions. Science, 2007, 315, 612-617.	6.0	1,250
2	The Deep Chlorophyll Maximum: Comparing Vertical Profiles of Chlorophyll <i>a</i> . Canadian Journal of Fisheries and Aquatic Sciences, 1982, 39, 791-803.	0.7	767
3	Autotrophic Picoplankton in the Tropical Ocean. Science, 1983, 219, 292-295.	6.0	486
4	FLUORESCENCE-BASED MAXIMAL QUANTUM YIELD FOR PSII AS A DIAGNOSTIC OF NUTRIENT STRESS. Journal of Phycology, 2001, 37, 517-529.	1.0	422
5	Biological Weighting Function for the Inhibition of Phytoplankton Photosynthesis by Ultraviolet Radiation. Science, 1992, 258, 646-650.	6.0	415
6	Assessment of the relationships between dominant cell size in natural phytoplankton communities and the spectral shape of the absorption coefficient. Limnology and Oceanography, 2002, 47, 404-417.	1.6	397
7	Subsurface Chlorophyll Maximum Layers: Enduring Enigma or Mystery Solved?. Annual Review of Marine Science, 2015, 7, 207-239.	5.1	298
8	The kinetics of algal photoadaptation in the context of vertical mixing. Journal of Plankton Research, 1988, 10, 1039-1063.	0.8	264
9	Interactive effects of ozone depletion and vertical mixing on photosynthesis of Antarctic phytoplankton. Nature, 1998, 392, 585-589.	13.7	255
10	Inhibition of photosynthesis by ultraviolet radiation as a function of dose and dosage rate: Results for a marine diatom. Marine Biology, 1991, 111, 183-190.	0.7	215
11	Ultraviolet radiation, ozone depletion, and marine photosynthesis. Photosynthesis Research, 1994, 39, 303-320.	1.6	197
12	Photosynthetic characteristics and estimated growth rates indicate grazing is the proximate control of primary production in the equatorial Pacific. Journal of Geophysical Research, 1992, 97, 639-654.	3.3	194
13	Hypotheses to explain high-nutrient conditions in the open sea. Limnology and Oceanography, 1991, 36, 1578-1599.	1.6	184
14	CARBON UPTAKE IN A MARINE DIATOM DURING ACUTE EXPOSURE TO ULTRAVIOLET B RADIATION: RELATIVE IMPORTANCE OF DAMAGE AND REPAIR1. Journal of Phycology, 1994, 30, 183-192.	1.0	181
15	Phytoplankton and thermal structure in the upper ocean: Consequences of nonuniformity in chlorophyll profile. Journal of Geophysical Research, 1983, 88, 2565-2570.	3.3	180
16	Effects of nitrate on the diurnal vertical migration, carbon to nitrogen ratio, and the photosynthetic capacity of the dinoflagellate Gymnodinium splendens. Marine Biology, 1981, 62, 81-89.	0.7	178
17	OCEANS: Dis-Crediting Ocean Fertilization. Science, 2001, 294, 309-310.	6.0	162
18	Vertical migration, nutrition and toxicity in the dinoflagellate Alexandrium tamarense. Marine Ecology - Progress Series, 1997, 148, 201-216.	0.9	158

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19	On models of growth and photosynthesis in phytoplankton. Deep-sea Research Part A, Oceanographic Research Papers, 1990, 37, 667-683.	1.6	155
20	Primary production by suspended and benthic microalgae in a turbid estuary:time-scales of variability in San Antonio Bay, Texas. Marine Ecology - Progress Series, 1996, 145, 245-268.	0.9	138
21	Turbulent motions may control phytoplankton photosynthesis in the upper ocean. Nature, 1984, 311, 49-50.	13.7	131
22	THE BLANK CAN MAKE A BIG DIFFERENCE IN OCEANOGRAPHIC MEASUREMENTS. Limnology and Oceanography Bulletin, 2003, 12, 29-35.	0.2	125
23	Optical detection and assessment of algal blooms. Limnology and Oceanography, 1997, 42, 1223-1239.	1.6	123
24	Inhibition of marine photosynthesis by ultraviolet radiation: Variable sensitivity of phytoplankton in the Weddell-Scotia Confluence during the austral spring. Limnology and Oceanography, 1998, 43, 433-448.	1.6	120
25	Sunlight and water transparency: cornerstones in coral research. Journal of Experimental Marine Biology and Ecology, 2002, 268, 171-183.	0.7	111
26	Ammonium distribution in southern California coastal waters and its role in the growth of phytoplankton1. Limnology and Oceanography, 1979, 24, 495-509.	1.6	109
27	Biological weighting of ultraviolet (280-400 nm) induced mortality in marine zooplankton and fish. I. Atlantic cod (Gadus morhua) eggs. Marine Biology, 1999, 134, 269-284.	0.7	105
28	Nutrient Limitation of Marine Photosynthesis. , 1992, , 69-88.		100
29	Impact of ultraviolet radiation on marine crustacean zooplankton and ichthyoplankton:a synthesis of results from the estuary and Gulf of St. Lawrence, Canada. Marine Ecology - Progress Series, 2000, 199, 293-311.	0.9	90
30	Fine-scale vertical resolution of chlorophyll and photosynthetic parameters in shallow-water benthos. Marine Ecology - Progress Series, 1995, 122, 227-237.	0.9	87
31	New algorithms for MODIS sun-induced chlorophyll fluorescence and a comparison with present data products. Limnology and Oceanography: Methods, 2005, 3, 108-130.	1.0	86
32	Biological processes and optical measurements near the sea surface: Some issues relevant to remote sensing. Journal of Geophysical Research, 1995, 100, 13255.	3.3	85
33	Iron, nitrogen and phosphorus in the ocean. Nature, 1999, 402, 372-372.	13.7	81
34	Ocean fertilization: time to move on. Nature, 2009, 461, 347-348.	13.7	78
35	Changes in buoyancy and chemical composition during growth of a coastal marine diatom:ecological and biogeochemical consequences. Marine Ecology - Progress Series, 1995, 128, 77-90.	0.9	78
36	Continuous measurement of the DCMU-induced fluorescence response of natural phytoplankton populations. Marine Biology, 1979, 53, 13-20.	0.7	76

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37	Status of the iron hypothesis after the Openâ€Ocean Enrichment Experiment1. Limnology and Oceanography, 1995, 40, 1336-1343.	1.6	76
38	New Approaches and Technologies for Observing Harmful Algal Blooms. Oceanography, 2005, 18, 210-227.	0.5	76
39	Biological weighting of ultraviolet (280-400 nm) induced mortality in marine zooplankton and fish. II. Calanus finmarchicus (Copepoda) eggs. Marine Biology, 1999, 134, 285-293.	0.7	72
40	Deriving optical metrics of coastal phytoplankton biomass from ocean colour. Remote Sensing of Environment, 2012, 119, 72-83.	4.6	72
41	A semi-analytical model of the influence of phytoplankton community structure on the relationship between light attenuation and ocean color. Journal of Geophysical Research, 1999, 104, 1559-1578.	3.3	71
42	Vertical motion of the thermocline, nitracline and chlorophyll maximum layers in relation to currents on the Southern California Shelf. Journal of Marine Research, 1983, 41, 239-262.	0.3	61
43	From genes to ecosystems: the ocean's new frontier. Frontiers in Ecology and the Environment, 2004, 2, 457-468.	1.9	59
44	Effects of UV radiation on phytoplankton. Reviews of Geophysics, 1995, 33, 1211-1223.	9.0	58
45	Damage to DNA in Bacterioplankton: A Model of Damage by Ultraviolet Radiation and its Repair as Influenced by Vertical Mixing¶. Photochemistry and Photobiology, 2000, 72, 62.	1.3	58
46	CYANOBACTERIAL BUOYANCY REGULATION: THE PARADOXICAL ROLES OF CARBON1. Journal of Phycology, 1996, 32, 47-53.	1.0	57
47	The spectral effects of clouds on solar irradiance. Journal of Geophysical Research, 1998, 103, 31017-31031.	3.3	55
48	On the use of the serial dilution culture method to enumerate viable phytoplankton in natural communities of plankton subjected to ballast water treatment. Journal of Applied Phycology, 2016, 28, 279-298.	1.5	55
49	Ultraviolet (280–400 nm)–induced DNA Damage in the Eggs and Larvae of Calanus finmarchicus G. (Copepoda) and Atlantic Cod (Gadus morhua)¶. Photochemistry and Photobiology, 2003, 77, 397.	1.3	54
50	Effects of ultraviolet radiation on the photosynthesis of phytoplankton in the vicinity of McMurdo Station, Antarctica. Antarctic Research Series, 1994, , 125-142.	0.2	52
51	Ocean Fertilization: Science, Policy, and Commerce. Oceanography, 2009, 22, 236-261.	0.5	50
52	Using Cultures to Investigate the Physiological Ecology of Microalgae. , 2005, , 287-326.		50
53	Biological Weighting Functions for Describing the Effects of Ultraviolet Radiation on Aquatic Systems. , 1997, , 97-118.		50
54	Predicting and verifying the intended and unintended consequences of large-scale ocean iron fertilization. Marine Ecology - Progress Series, 2008, 364, 295-301.	0.9	50

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55	Detection of Karenia mikimotoi by spectral absorption signatures. Journal of Plankton Research, 2003, 25, 1237-1249.	0.8	49
56	Production of methyl halides by <i>Prochlorococcus</i> and <i>Synechococcus</i> . Global Biogeochemical Cycles, 2010, 24, .	1.9	46
57	PHYSIOLOGICAL AND OPTICAL PROPERTIES OF RHIZOSOLENIA FORMOSA (BACILLARIOPHYCEAE) IN THE CONTEXT OF OPEN-OCEAN VERTICAL MIGRATION1. Journal of Phycology, 1996, 32, 741-757.	1.0	44
58	Resolving the Impacts and Feedback of Ocean Optics on Upper Ocean Ecology. Oceanography, 2001, 14, 30-53.	0.5	44
59	Phytoplankton in the surface and chlorophyll maximum off southern California in August, 1978. Journal of Plankton Research, 1982, 4, 665-694.	0.8	43
60	Bio-optical inferences from chlorophyll a fluorescence: What kind of fluorescence is measured in flow cytometry?. Limnology and Oceanography, 1989, 34, 1739-1748.	1.6	42
61	Subsurface patch of a dinoflagellate (Ceratium tripos) off Southern California: Patch length, growth rate, associated vertically migrating species. Marine Biology, 1984, 80, 207-214.	0.7	41
62	Description of and results from a new surface microlayer sampling device. Deep-sea Research Part A, Oceanographic Research Papers, 1988, 35, 1205-1213.	1.6	41
63	Classification of phytoplankton cells as live or dead using the vital stains fluorescein diacetate and 5â€chloromethylfluorescein diacetate. Journal of Phycology, 2016, 52, 572-589.	1.0	41
64	New production in the warm waters of the tropical Pacific Ocean. Journal of Geophysical Research, 1994, 99, 14255.	3.3	40
65	Potential contributions of vertically migrating Rhizosolenia to nutrient cycling and new production in the open ocean. Journal of Plankton Research, 1998, 20, 219-241.	0.8	39
66	Impacts of Solar UVR on Aquatic Microorganisms*. Photochemistry and Photobiology, 1997, 65, 252-269.	1.3	37
67	Retrieval of phytoplankton biomass from simultaneous inversion of reflectance, the diffuse attenuation coefficient, and Sun-induced fluorescence in coastal waters. Journal of Geophysical Research, 2007, 112, .	3.3	36
68	Distributions of pigments and primary production in a Gulf Stream meander. Journal of Geophysical Research, 1993, 98, 14545-14560.	3.3	32
69	Primary production estimates from recordings of solarâ€stimulated fluorescence in the equatorial Pacific at 150°W. Journal of Geophysical Research, 1992, 97, 627-638.	3.3	27
70	Inferred influence of nutrient availability on the relationship between Sunâ€induced chlorophyll fluorescence and incident irradiance in the Bering Sea. Journal of Geophysical Research, 2008, 113, .	3.3	26
71	Spectral model of depthâ€integrated water column photosynthesis and its inhibition by ultraviolet radiation. Global Biogeochemical Cycles, 2012, 26, .	1.9	26
72	Yellow water in La Jolla Bay, California, July 1980. I. A bloom of the dinoflagellate, Gymnodinium flavum Kofoid & Swezy. Journal of Experimental Marine Biology and Ecology, 1982, 63, 67-80.	0.7	25

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73	Modeling the effects of ultraviolet radiation on embryos of <i>Calanus finmarchicus</i> and Atlantic cod (<i>Gadus morhua</i>) in a mixing environment. Limnology and Oceanography, 2000, 45, 1797-1806.	1.6	25
74	Irradiance-induced variability in light scatter from marine phytoplankton in culture. Journal of Plankton Research, 1993, 15, 737-759.	0.8	23
75	Effect of UV on Short-Term Photosynthesis of Natural Phytoplankton. Photochemistry and Photobiology, 1997, 65, 264-266.	1.3	23
76	The Biological Basis for Ballast Water Performance Standards: "Viable/Non-Viable―or "Live/Dead�. Environmental Science & Technology, 2018, 52, 8075-8086.	4.6	22
77	Some changes in the optical properties of marine phytoplankton in response to high light intensity. , 1990, , .		21
78	Coupling 3-D Eulerian bio-physics (ROMS) with individual-based shellfish ecophysiology (SHELL-E): A hybrid model for carrying capacity and environmental impacts of bivalve aquaculture. Ecological Modelling, 2014, 273, 63-78.	1.2	19
79	Towards a General Description of Phytoplankton Growth for Biogeochemical Models. , 1993, , 153-176.		19
80	Autofluorescence And Other Optical Properties As Tools In Biological Oceanography. Proceedings of SPIE, 1988, , .	0.8	18
81	Curvature in models of the photosynthesisâ€irradiance response. Journal of Phycology, 2014, 50, 341-355.	1.0	18
82	Mapping coastal optical and biogeochemical variability using an autonomous underwater vehicle and a new bioâ€optical inversion algorithm. Limnology and Oceanography: Methods, 2004, 2, 262-281.	1.0	17
83	Enumerating viable phytoplankton using a culture-based Most Probable Number assay following ultraviolet-C treatment. Journal of Applied Phycology, 2018, 30, 1073-1094.	1.5	17
84	Methyl iodide in the NW Atlantic: Spatial and seasonal variation. Journal of Geophysical Research, 2009, 114, .	3.3	16
85	Spectrally weighted transparency in models of water-column photosynthesis and photoinhibition by ultraviolet radiation. Marine Ecology - Progress Series, 2004, 269, 101-110.	0.9	16
86	Extensive hydrogen supersaturations in the western South Atlantic Ocean suggest substantial underestimation of nitrogen fixation. Journal of Geophysical Research: Oceans, 2014, 119, 4340-4350.	1.0	14
87	Spectral analysis: a caveat. Deep-sea Research Part A, Oceanographic Research Papers, 1981, 28, 93-97.	1.6	13
88	Patterns and Prediction in Microbial Oceanography. Oceanography, 2007, 20, 34-46.	0.5	13
89	Phytoplankton growth and light absorption as regulated by light, temperature, and nutrients. Polar Research, 1991, 10, 163-172.	1.6	12
90	Quantitative framework for validating two methodologies that are used to enumerate viable organisms for type approval of ballast water management systems. Science of the Total Environment, 2018, 627, 1602-1626.	3.9	12

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91	Monitoring the Spring Bloom in an Ice Covered Fjord with the Land/Ocean Biogeochemical Observatory (LOBO). , 2007, , .		10
92	<title>Relationship between near-surface chlorophyll and solar-stimulated fluorescence: biological effects</title> . , 1997, 2963, 272.		8
93	Phytoplankton growth and light absorption as regulated by light, temperature, and nutrients. Polar Research, 1991, 10, 163-172.	1.6	6
94	<title>Observing biologically induced optical variability in coastal waters</title> . , 1994, , .		6
95	The Marine Environmental Prediction System (MEPS) - A New Generation of Moored Ocean Observing Systems. , 0, , .		5
96	Inter-laboratory validation of the serial dilution culture—most probable number method for enumerating viable phytoplankton. Journal of Applied Phycology, 2019, 31, 491-503.	1.5	3
97	<title>Influence of phytoplankton size structure on the spectral attenuation coefficient in the upper ocean</title> . , 1997, 2963, 380.		2
98	Ultraviolet (280-400 nm)-induced DNA Damage in the Eggs and Larvae of Calanus finmarchicus G. (Copepoda) and Atlantic Cod (Gadus morhua) ¶. Photochemistry and Photobiology, 2003, 77, 397-404.	1.3	2
99	Calibration of a coupled biological–physical model for prediction in a coastal inlet. Continental Shelf Research, 2011, 31, 1713-1727.	0.9	2
100	The case for using the Most Probable Number (MPN) method in ballast water management system type approval testing. , 2017, , .		1
101	Damage to DNA in Bacterioplankton: A Model of Damage by Ultraviolet Radiation and its Repair as Influenced by Vertical Mixing ¶. Photochemistry and Photobiology, 2007, 72, 62-74.	1.3	0
102	Photosynthesis. Volume 2: Development, Carbon Metabolism, and Plant Productivity. Govindjee. Quarterly Review of Biology, 1983, 58, 568-569.	0.0	0