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List of Publications by Year
in descending order

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188 papers	18,423 citations	12322 69 h-index	15716 125 g-index
239 all docs	239 docs citations	239 times ranked	10645 citing authors

#	Article	IF	Citations
1	Biological production in two contrasted regions of the Mediterranean Sea during the oligotrophic period: an estimate based on the diel cycle of optical properties measured by BioGeoChemical-Argo profiling floats. Biogeosciences, 2022, 19, 1165-1194.	1.3	4
2	Bridging the gaps between particulate backscattering measurements and modeled particulate organic carbon in the ocean. Biogeosciences, 2022, 19, 1245-1275.	1.3	15
3	<scp>The Underwater Vision Profiler 6: an imaging sensor of particle size spectra and plankton, for autonomous and cabled platforms</scp>. Limnology and Oceanography: Methods, 2022, 20, 115-129.	1.0	42
4	Biogeographical Classification of the Global Ocean From BGCâ€Argo Floats. Global Biogeochemical Cycles, 2022, 36, .	1.9	6
5	OneArgo: A New Paradigm for Observing the Global Ocean. Marine Technology Society Journal, 2022, 56, 84-90.	0.3	5
6	Deep Chlorophyll Maxima in the Global Ocean: Occurrences, Drivers and Characteristics. Global Biogeochemical Cycles, 2021, 35, e2020GB006759.	1.9	69
7	The MALINA oceanographic expedition: how do changes in ice cover, permafrost and UV radiation impact biodiversity and biogeochemical fluxes in the Arctic Ocean?. Earth System Science Data, 2021, 13, 1561-1592.	3.7	11
8	BGCâ€Argo Floats Observe Nitrate Injection and Spring Phytoplankton Increase in the Surface Layer of Levantine Sea (Eastern Mediterranean). Geophysical Research Letters, 2021, 48, e2020GL091649.	1.5	5
9	Impact of Mesoscale Eddies on Deep Chlorophyll Maxima. Geophysical Research Letters, 2021, 48, e2021GL093470.	1.5	22
10	Correction of Biogeochemical-Argo Radiometry for Sensor Temperature-Dependence and Drift: Protocols for a Delayed-Mode Quality Control. Sensors, 2021, 21, 6217.	2.1	4
11	The Oceansâ€™ Biological Carbon Pumps: Framework for a Research Observational Community Approach. Frontiers in Marine Science, 2021, 8, .	1.2	21
12	Hyperspectral Radiometry on Biogeochemical-Argo Floats: A Bright Perspective for Phytoplankton Diversity. Oceanography, 2021, , 90-91.	0.5	7
13	Observing the Global Ocean with Biogeochemical-Argo. Annual Review of Marine Science, 2020, 12, 23-48.	5.1	155
14	Enhancement of phytoplankton biomass leeward of Tahiti as observed by Biogeochemical-Argo floats. Journal of Marine Systems, 2020, 204, 103284.	0.9	5
15	Arctic mid-winter phytoplankton growth revealed by autonomous profilers. Science Advances, 2020, 6, .	4.7	33
16	Preparing the New Phase of Argo: Technological Developments on Profiling Floats in the NAOS Project. Frontiers in Marine Science, 2020, 7, .	1.2	9
17	Detection of Coccolithophore Blooms With BioGeoChemicalâ€Argo Floats. Geophysical Research Letters, 2020, 47, e2020GL090559.	1.5	24
18	Organic Carbon Export and Loss Rates in the Red Sea. Global Biogeochemical Cycles, 2020, 34, e2020GB006650.	1.9	17

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19	A Regional Neural Network Approach to Estimate Water-Column Nutrient Concentrations and Carbonate System Variables in the Mediterranean Sea: CANYON-MED. Frontiers in Marine Science, 2020, 7, .	1.2	25
20	Argo Data 1999â€“2019: Two Million Temperature-Salinity Profiles and Subsurface Velocity Observations From a Global Array of Profiling Floats. Frontiers in Marine Science, 2020, 7, .	1.2	117
21	Environmental drivers of under-ice phytoplankton bloom dynamics in the Arctic Ocean. Elementa, 2020, 8, .	1.1	45
22	Preparing the New Phase of Argo: Scientific Achievements of the NAOS Project. Frontiers in Marine Science, 2020, 7, .	1.2	10
23	Monitoring ocean biogeochemistry with autonomous platforms. Nature Reviews Earth & Environment, 2020, 1, 315-326.	12.2	114
24	Detecting Mesopelagic Organisms Using Biogeochemicalâ€Argo Floats. Geophysical Research Letters, 2020, 47, e2019GL086088.	1.5	20
25	Major role of particle fragmentation in regulating biological sequestration of CO ₂ by the oceans. Science, 2020, 367, 791-793.	6.0	140
26	Biogeochemical Argo: The Test Case of the NAOS Mediterranean Array. Frontiers in Marine Science, 2020, 7, .	1.2	16
27	Relaxation of Wind Stress Drives the Abrupt Onset of Biological Carbon Uptake in the Kerguelen Bloom: A Multisensor Approach. Geophysical Research Letters, 2020, 47, e2019GL085992.	1.5	15
28	The oceansâ€™ twilight zone must be studied now, before it is too late. Nature, 2020, 580, 26-28.	13.7	73
29	Green Edge ice camp campaigns: understanding the processes controlling the under-ice Arctic phytoplankton spring bloom. Earth System Science Data, 2020, 12, 151-176.	3.7	32
30	The suspended small-particle layer in the oxygen-poor Black Sea: a proxy for delineating the effective N₂-yielding section. Biogeosciences, 2020, 17, 6491-6505.	1.3	5
31	On the Future of Argo: A Global, Full-Depth, Multi-Disciplinary Array. Frontiers in Marine Science, 2019, 6, .	1.2	235
32	Global Variability of Optical Backscattering by Nonâ€algal particles From a Biogeochemicalâ€Argo Data Set. Geophysical Research Letters, 2019, 46, 9767-9776.	1.5	41
33	Small Phytoplankton Shapes Colored Dissolved Organic Matter Dynamics in the North Atlantic Subtropical Gyre. Geophysical Research Letters, 2019, 46, 12183-12191.	1.5	18
34	A BGC-Argo Guide: Planning, Deployment, Data Handling and Usage. Frontiers in Marine Science, 2019, 6, .	1.2	86
35	Evaluating tropical phytoplankton phenology metrics using contemporary tools. Scientific Reports, 2019, 9, 674.	1.6	26
36	From Observation to Information and Users: The Copernicus Marine Service Perspective. Frontiers in Marine Science, 2019, 6, .	1.2	135

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37	Bio-optical characterization of subsurface chlorophyll maxima in the Mediterranean Sea from a Biogeochemical-Argo float database. Biogeosciences, 2019, 16, 1321-1342.	1.3	43
38	Hydrothermal vents trigger massive phytoplankton blooms in the Southern Ocean. Nature Communications, 2019, 10, 2451.	5.8	79
39	Multi-faceted particle pumps drive carbon sequestration in the ocean. Nature, 2019, 568, 327-335.	13.7	455
40	Communityâ€Level Responses to Iron Availability in Open Ocean Plankton Ecosystems. Global Biogeochemical Cycles, 2019, 33, 391-419.	1.9	76
41	The Intraseasonal Dynamics of the Mixed Layer Pump in the Subpolar North Atlantic Ocean: A Biogeochemicalâ€Argo Float Approach. Global Biogeochemical Cycles, 2019, 33, 266-281.	1.9	44
42	A compilation of global bio-optical in situ data for ocean-colour satellite applications â€“ version two. Earth System Science Data, 2019, 11, 1037-1068.	3.7	43
43	Toward deeper development of Biogeochemical-Argo floats. Atmospheric and Oceanic Science Letters, 2018, 11, 287-290.	0.5	4
44	Understanding the Dynamics of the Oxicâ€Anoxic Interface in the Black Sea. Geophysical Research Letters, 2018, 45, 864-871.	1.5	27
45	Assessing the Variability in the Relationship Between the Particulate Backscattering Coefficient and the Chlorophyll a Concentration From a Global Biogeochemicalâ€Argo Database. Journal of Geophysical Research: Oceans, 2018, 123, 1229-1250.	1.0	55
46	Floats with bio-optical sensors reveal what processes trigger the North Atlantic bloom. Nature Communications, 2018, 9, 190.	5.8	65
47	ProVal: A New Autonomous Profiling Float for High Quality Radiometric Measurements. Frontiers in Marine Science, 2018, 5, .	1.2	29
48	An Alternative to Static Climatologies: Robust Estimation of Open Ocean CO2 Variables and Nutrient Concentrations From T, S, and O2 Data Using Bayesian Neural Networks. Frontiers in Marine Science, 2018, 5, .	1.2	100
49	Silicon cycle in the tropical South Pacific: contribution to the global Si cycle and evidence for an active pico-sized siliceous plankton. Biogeosciences, 2018, 15, 5595-5620.	1.3	14
50	Improved correction for non-photochemical quenching of in situ chlorophyll fluorescence based on a synchronous irradiance profile. Optics Express, 2018, 26, 24734.	1.7	50
51	Beyond Chlorophyll Fluorescence: The Time is Right to Expand Biological Measurements in Ocean Observing Programs. Limnology and Oceanography Bulletin, 2018, 27, 89-90.	0.2	25
52	Physical and Biogeochemical Controls of the Phytoplankton Blooms in North Western Mediterranean Sea: A Multiplatform Approach Over a Complete Annual Cycle (2012â€“2013 DEWEX Experiment). Journal of Geophysical Research: Oceans, 2017, 122, 9999-10019.	1.0	56
53	Delineating environmental control of phytoplankton biomass and phenology in the Southern Ocean. Geophysical Research Letters, 2017, 44, 5016-5024.	1.5	79
54	Bioâ€optical anomalies in the world's oceans: An investigation on the diffuse attenuation coefficients for downward irradiance derived from <scp>B</scp>iogeochemical <scp>A</scp>rgo float measurements. Journal of Geophysical Research: Oceans, 2017, 122, 3543-3564.	1.0	44

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55	Influence of the Phytoplankton Community Structure on the Spring and Annual Primary Production in the Northwestern Mediterranean Sea. Journal of Geophysical Research: Oceans, 2017, 122, 9918-9936.	1.0	40
56	Unexpected winter phytoplankton blooms in the North Atlantic subpolar gyre. Nature Geoscience, 2017, 10, 836-839.	5.4	52
57	Water intrusions and particle signatures in the Black Sea: a Biogeochemical-Argo float investigation. Ocean Dynamics, 2017, 67, 1119-1136.	0.9	23
58	Particulate concentration and seasonal dynamics in the mesopelagic ocean based on the backscattering coefficient measured with Biogeochemicalâ€Argo floats. Geophysical Research Letters, 2017, 44, 6933-6939.	1.5	27
59	Recommendations for obtaining unbiased chlorophyll estimates from in situ chlorophyll fluorometers: A global analysis of WET Labs ECO sensors. Limnology and Oceanography: Methods, 2017, 15, 572-585.	1.0	191
60	Correction of profiles of inâ€situ chlorophyll fluorometry for the contribution of fluorescence originating from nonâ€algal matter. Limnology and Oceanography: Methods, 2017, 15, 80-93.	1.0	44
61	Estimates of Water-Column Nutrient Concentrations and Carbonate System Parameters in the Global Ocean: A Novel Approach Based on Neural Networks. Frontiers in Marine Science, 2017, 4, .	1.2	71
62	Assessing Pigment-Based Phytoplankton Community Distributions in the Red Sea. Frontiers in Marine Science, 2017, 4, .	1.2	45
63	Plankton Assemblage Estimated with BGCâ€Argo Floats in the Southern Ocean: Implications for Seasonal Successions and Particle Export. Journal of Geophysical Research: Oceans, 2017, 122, 8278-8292.	1.0	42
64	Two databases derived from BGC-Argo float measurements for marine biogeochemical and bio-optical applications. Earth System Science Data, 2017, 9, 861-880.	3.7	42
65	Interannual variability of the Mediterranean trophic regimes from ocean color satellites. Biogeosciences, 2016, 13, 1901-1917.	1.3	63
66	A neural networkâ€based method for merging ocean color and Argo data to extend surface bioâ€optical properties to depth: Retrieval of the particulate backscattering coefficient. Journal of Geophysical Research: Oceans, 2016, 121, 2552-2571.	1.0	50
67	Substantial energy input to the mesopelagic ecosystem from the seasonal mixed-layer pump. Nature Geoscience, 2016, 9, 820-823.	5.4	106
68	A Novel Near-Real-Time Quality-Control Procedure for Radiometric Profiles Measured by Bio-Argo Floats: Protocols and Performances. Journal of Atmospheric and Oceanic Technology, 2016, 33, 937-951.	0.5	57
69	Bringing Biogeochemistry into the Argo Age. Eos, 2016, , .	0.1	35
70	A compilation of global bio-optical in situ data for ocean-colour satellite applications. Earth System Science Data, 2016, 8, 235-252.	3.7	56
71	Seasonal variability of nutrient concentrations in the <scp>M</scp>editerranean <scp>S</scp>ea: Contribution of <scp>B</scp>ioâ€<scp>A</scp>rgo floats. Journal of Geophysical Research: Oceans, 2015, 120, 8528-8550.	1.0	59
72	Phytoplankton biomass cycles in the North Atlantic subpolar gyre: A similar mechanism for two different blooms in the Labrador Sea. Geophysical Research Letters, 2015, 42, 5403-5410.	1.5	37

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73	On the vertical distribution of the chlorophyll <i>a</i> concentration in the Mediterranean Sea: a basin-scale and seasonal approach. Biogeosciences, 2015, 12, 5021-5039.	1.3	90
74	Retrieving the vertical distribution of chlorophyll a concentration and phytoplankton community composition from in situ fluorescence profiles: A method based on a neural network with potential for globalâ€scale applications. Journal of Geophysical Research: Oceans, 2015, 120, 451-470.	1.0	53
75	Vertical distribution of chlorophyll <I>a</I> concentration and phytoplankton community composition from in situ fluorescence profiles: a first database for the global ocean. Earth System Science Data, 2015, 7, 261-273.	3.7	23
76	Observing mixed layer depth, nitrate and chlorophyll concentrations in the northwestern Mediterranean: A combined satellite and NO₃ profiling floats experiment. Geophysical Research Letters, 2014, 41, 6443-6451.	1.5	57
77	Seasonal dynamics in colored dissolved organic matter in the Mediterranean Sea: Patterns and drivers. Deep-Sea Research Part I: Oceanographic Research Papers, 2014, 83, 93-101.	0.6	25
78	Understanding the seasonal dynamics of phytoplankton biomass and the deep chlorophyll maximum in oligotrophic environments: A Bioâ€Argo float investigation. Global Biogeochemical Cycles, 2014, 28, 856-876.	1.9	167
79	Seasonal variations of bioâ€optical properties and their interrelationships observed by <scp>B</scp>ioâ€<scp>A</scp>rgo floats in the subpolar <scp>N</scp>orth <scp>A</scp>tlantic. Journal of Geophysical Research: Oceans, 2014, 119, 7372-7388.	1.0	29
80	Decomposition of in situ particulate absorption spectra. Methods in Oceanography, 2013, 7, 110-124.	1.5	82
81	The characteristics of particulate absorption, scattering and attenuation coefficients in the surface ocean; Contribution of the Tara Oceans expedition. Methods in Oceanography, 2013, 7, 52-62.	1.5	76
82	Enhancing the comprehension of mixed layer depth control on the Mediterranean phytoplankton phenology. Journal of Geophysical Research: Oceans, 2013, 118, 3416-3430.	1.0	65
83	Instrumented elephant seals reveal the seasonality in chlorophyll and lightâ€mixing regime in the ironâ€fertilized Southern Ocean. Geophysical Research Letters, 2013, 40, 6368-6372.	1.5	32
84	The MAREDAT global database of high performance liquid chromatography marine pigment measurements. Earth System Science Data, 2013, 5, 109-123.	3.7	44
85	Calibration procedures and first dataset of Southern Ocean chlorophyll <i>a</i> profiles collected by elephant seals equipped with a newly developed CTD-fluorescence tags. Earth System Science Data, 2013, 5, 15-29.	3.7	51
86	Combined processing and mutual interpretation of radiometry and fluorometry from autonomous profiling Bioâ€Argo floats: 2. Colored dissolved organic matter absorption retrieval. Journal of Geophysical Research, 2012, 117, .	3.3	43
87	Estimates of phytoplankton classâ€specific and total primary production in the Mediterranean Sea from satellite ocean color observations. Global Biogeochemical Cycles, 2012, 26, .	1.9	79
88	Towards a merged satellite and in situ fluorescence ocean chlorophyll product. Biogeosciences, 2012, 9, 2111-2125.	1.3	37
89	Quenching correction for in vivo chlorophyll fluorescence acquired by autonomous platforms: A case study with instrumented elephant seals in the Kerguelen region (Southern Ocean). Limnology and Oceanography: Methods, 2012, 10, 483-495.	1.0	128
90	Combined processing and mutual interpretation of radiometry and fluorimetry from autonomous profiling Bio-Argo floats: Chlorophyllaretrieval. Journal of Geophysical Research, 2011, 116, .	3.3	85

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91	Deep silicon maxima in the stratified oligotrophic Mediterranean Sea. Biogeosciences, 2011, 8, 459-475.	1.3	76
92	From the shape of the vertical profile of in vivo fluorescence to Chlorophyll-<i>a</i> concentration. Biogeosciences, 2011, 8, 2391-2406.	1.3	58
93	The most oligotrophic subtropical zones of the global ocean: similarities and differences in terms of chlorophyll and yellow substance. Biogeosciences, 2010, 7, 3139-3151.	1.3	128
94	Phytoplankton classâ€specific primary production in the world's oceans: Seasonal and interannual variability from satellite observations. Global Biogeochemical Cycles, 2010, 24, .	1.9	262
95	Light absorption properties and absorption budget of Southeast Pacific waters. Journal of Geophysical Research, 2010, 115, .	3.3	130
96	Bio-Optical Profiling Floats as New Observational Tools for Biogeochemical and Ecosystem Studies: Potential Synergies with Ocean Color Remote Sensing.. , 2010, , .		56
97	Guidelines Towards an Integrated Ocean Observation System for Ecosystems and Biogeochemical Cycles. , 2010, , .		26
98	Towards an Integrated Observing System for Ocean Carbon and Biogeochemistry at a Time of Change. , 2010, , .		6
99	Integrating the Ocean Observing System: Mobile Platforms. , 2010, , .		17
100	Effects of phytoplankton community on production, size, and export of large aggregates: A worldâ€ocean analysis. Limnology and Oceanography, 2009, 54, 1951-1963.	1.6	216
101	A phytoplankton class-specific primary production model applied to the Kerguelen Islands region (Southern Ocean). Deep-Sea Research Part I: Oceanographic Research Papers, 2009, 56, 541-560.	0.6	103
102	Extreme diversity in noncalcifying haptophytes explains a major pigment paradox in open oceans. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 12803-12808.	3.3	263
103	Observing Biogeochemical Cycles at Global Scales with Profiling Floats and Gliders: Prospects for a Global Array. Oceanography, 2009, 22, 216-225.	0.5	171
104	The origin and global distribution of second order variability in satellite ocean color and its potential applications to algorithm development. Remote Sensing of Environment, 2008, 112, 4186-4203.	4.6	118
105	Submesoscale physicalâ€biogeochemical coupling across the Ligurian current (northwestern) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T	1.6	101
106	Relating phytoplankton photophysiological properties to community structure on large scales. Limnology and Oceanography, 2008, 53, 614-630.	1.6	172
107	Spatial variability of phytoplankton pigment distributions in the Subtropical South Pacific Ocean: comparison between in situ and predicted data. Biogeosciences, 2008, 5, 353-369.	1.3	300
108	Relationships between the surface concentration of particulate organic carbon and optical properties in the eastern South Pacific and eastern Atlantic Oceans. Biogeosciences, 2008, 5, 171-201.	1.3	333

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109	Heterotrophic bacterial production in the eastern South Pacific: longitudinal trends and coupling with primary production. Biogeosciences, 2008, 5, 157-169.	1.3	36
110	Calcite production by coccolithophores in the south east Pacific Ocean. Biogeosciences, 2008, 5, 1101-1117.	1.3	76
111	Phosphate availability and the ultimate control of new nitrogen input by nitrogen fixation in the tropical Pacific Ocean. Biogeosciences, 2008, 5, 95-109.	1.3	165
112	Nutrient limitation of primary productivity in the Southeast Pacific (BIOSOPE cruise). Biogeosciences, 2008, 5, 215-225.	1.3	118
113	Introduction to the special section bio-optical and biogeochemical conditions in the South East Pacific in late 2004: the BIOSOPE program. Biogeosciences, 2008, 5, 679-691.	1.3	96
114	Distribution of lipid biomarkers and carbon isotope fractionation in contrasting trophic environments of the South East Pacific. Biogeosciences, 2008, 5, 949-968.	1.3	28
115	Gross community production and metabolic balance in the South Pacific Gyre, using a non intrusive bio-optical method. Biogeosciences, 2008, 5, 463-474.	1.3	51
116	Distribution and fluxes of aggregates >100 Î¼m in the upper kilometer of the South-Eastern Pacific. Biogeosciences, 2008, 5, 1361-1372.	1.3	22
117	Optical properties of the â€œclearestâ€•natural waters. Limnology and Oceanography, 2007, 52, 217-229.	1.6	328
118	High Abundances of Aerobic Anoxygenic Photosynthetic Bacteria in the South Pacific Ocean. Applied and Environmental Microbiology, 2007, 73, 4198-4205.	1.4	116
119	Partitioning total spectral absorption in phytoplankton and colored detrital material contributions. Limnology and Oceanography: Methods, 2007, 5, 384-395.	1.0	27
120	Retrieval of pigment concentrations and size structure of algal populations from their absorption spectra using multilayered perceptrons. Applied Optics, 2007, 46, 1251.	2.1	60
121	Relationship between photosynthetic parameters and different proxies of phytoplankton biomass in the subtropical ocean. Biogeosciences, 2007, 4, 853-868.	1.3	83
122	Contribution of picoplankton to the total particulate organic carbon concentration in the eastern South Pacific. Biogeosciences, 2007, 4, 837-852.	1.3	123
123	Natural variability of bio-optical properties in Case 1 waters: attenuation and reflectance within the visible and near-UV spectral domains, as observed in South Pacific and Mediterranean waters. Biogeosciences, 2007, 4, 913-925.	1.3	74
124	Two High-Nutrient Low-Chlorophyll phytoplankton assemblages: the tropical central Pacific and the offshore PerÃº-Chile Current. Biogeosciences, 2007, 4, 1101-1113.	1.3	34
125	Growth and specific P-uptake rates of bacterial and phytoplanktonic communities in the Southeast Pacific (BIOSOPE cruise). Biogeosciences, 2007, 4, 941-956.	1.3	25
126	Optical backscattering properties of the "clearest" natural waters. Biogeosciences, 2007, 4, 1041-1058.	1.3	107

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127	High vertical and low horizontal diversity of Prochlorococcus ecotypes in the Mediterranean Sea in summer. FEMS Microbiology Ecology, 2007, 60, 189-206.	1.3	67
128	Vertical distribution of phytoplankton communities in open ocean: An assessment based on surface chlorophyll. Journal of Geophysical Research, 2006, 111, .	3.3	670
129	Diel variations in the photosynthetic parameters of Prochlorococcus strain PCC 9511: Combined effects of light and cell cycle. Limnology and Oceanography, 2005, 50, 850-863.	1.6	67
130	Bio-optical and biogeochemical properties of different trophic regimes in oceanic waters. Limnology and Oceanography, 2005, 50, 1795-1809.	1.6	73
131	Ecosystem dynamics based on plankton functional types for global ocean biogeochemistry models. Global Change Biology, 2005, 11, 051013014052005-???.	4.2	353
132	Toward a taxon-specific parameterization of bio-optical models of primary production: A case study in the North Atlantic. Journal of Geophysical Research, 2005, 110, .	3.3	78
133	Availability of iron and major nutrients for phytoplankton in the northeast Atlantic Ocean. Limnology and Oceanography, 2004, 49, 2095-2104.	1.6	79
134	Alteration of the food web along the Antarctic Peninsula in response to a regional warming trend. Global Change Biology, 2004, 10, 1973-1980.	4.2	332
135	An intercomparison of HPLC phytoplankton pigment methods using in situ samples: application to remote sensing and database activities. Marine Chemistry, 2004, 85, 41-61.	0.9	107
136	Siliceous phytoplankton production and export related to trans-frontal dynamics of the Almeria-Oran frontal system (western Mediterranean Sea) during winter. Journal of Geophysical Research, 2004, 109, .	3.3	9
137	Natural variability of phytoplanktonic absorption in oceanic waters: Influence of the size structure of algal populations. Journal of Geophysical Research, 2004, 109, .	3.3	429
138	Variations in the light absorption coefficients of phytoplankton, nonalgal particles, and dissolved organic matter in coastal waters around Europe. Journal of Geophysical Research, 2003, 108, .	3.3	758
139	OCEAN SCIENCE: The Many Shades of Ocean Blue. Science, 2003, 302, 1514-1515.	6.0	105
140	The genus Asterodinium (Dinophyceae) as a possible biological indicator of warming in the western Mediterranean Sea. Journal of the Marine Biological Association of the United Kingdom, 2003, 83, 173-174.	0.4	23
141	Effects of temperature, nitrogen, and light limitation on the optical properties of the marine diatom Thalassiosira pseudonana. Limnology and Oceanography, 2002, 47, 392-403.	1.6	99
142	Diel variations in Prochlorococcus optical properties. Limnology and Oceanography, 2002, 47, 1637-1647.	1.6	75
143	Does competition for nanomolar phosphate supply explain the predominance of the cyanobacterium Synechococcus?. Limnology and Oceanography, 2002, 47, 1562-1567.	1.6	203
144	Is desert dust making oligotrophic waters greener?. Geophysical Research Letters, 2002, 29, 107-1-107-4.	1.5	139

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145	Microzooplankton diversity: relationships of tintinnid ciliates with resources, competitors and predators from the Atlantic Coast of Morocco to the Eastern Mediterranean. Deep-Sea Research Part I: Oceanographic Research Papers, 2002, 49, 1217-1232.	0.6	120
146	Photoacclimatization in the zooxanthellae of Pocillopora verrucosa and comparison with a pelagic algal community. Oceanologica Acta: European Journal of Oceanology - Revue Europeene De Oceanologie, 2002, 25, 125-134.	0.7	3
147	Phytoplankton pigment distribution in relation to upper thermocline circulation in the eastern Mediterranean Sea during winter. Journal of Geophysical Research, 2001, 106, 19939-19956.	3.3	434
148	Nitrogen deprivation strongly affects Photosystem II but not phycoerythrin level in the divinyl-chlorophyll b -containing cyanobacterium Prochlorococcus marinus. Biochimica Et Biophysica Acta - Bioenergetics, 2001, 1503, 341-349.	0.5	37
149	Evaluation of the utility of chemotaxonomic pigments as a surrogate for particulate DMSP. Limnology and Oceanography, 2001, 46, 989-995.	1.6	27
150	An axenic cyclostat of Prochlorococcus PCC 9511 with a simulator of natural light regimes. Journal of Applied Phycology, 2001, 13, 135-142.	1.5	23
151	Continuous monitoring of surface optical properties across a geostrophic front: Biogeochemical inferences. Limnology and Oceanography, 2000, 45, 309-321.	1.6	42
152	Abundance and diversity of prymnesiophytes in the picoplankton coÎ¼munity from the equatorial Pacific Ocean inferred from 18S rDNA sequences. Limnology and Oceanography, 2000, 45, 98-109.	1.6	208
153	Responses of growth rate, pigment composition and optical properties of Cryptomonas sp. to light and nitrogen stresses. Marine Ecology - Progress Series, 2000, 201, 107-120.	0.9	43
154	BOLIDOMONAS: A NEW GENUS WITH TWO SPECIES BELONGING TO A NEW ALGAL CLASS, THE BOLIDOPHYCEAE (HETEROKONTA). Journal of Phycology, 1999, 35, 368-381.	1.0	225
155	Planktonic ciliates in the Mediterranean Sea: longitudinal trends. Deep-Sea Research Part I: Oceanographic Research Papers, 1999, 46, 2025-2039.	0.6	87
156	Variability in particle attenuation and chlorophyll fluorescence in the tropical Pacific: Scales, patterns, and biogeochemical implications. Journal of Geophysical Research, 1999, 104, 3401-3422.	3.3	125
157	Correction to â€œVariations of light absorption by suspended particles with chlorophyllaconcentration in oceanic (case 1) waters: Analysis and implications for bio-optical modelsâ€•by A. Bricaud et al.. Journal of Geophysical Research, 1999, 104, 8025-8025.	3.3	3
158	Diversity and Abundance of Bolidophyceae (Heterokonta) in Two Oceanic Regions. Applied and Environmental Microbiology, 1999, 65, 4528-4536.	1.4	72
159	Pigment dynamics associated with the grazing of a ciliate and a flagellate feeding on a cyanobacterium. Oceanologica Acta: European Journal of Oceanology - Revue Europeene De Oceanologie, 1998, 21, 581-588.	0.7	4
160	Variations of light absorption by suspended particles with chlorophyllaconcentration in oceanic (case 1) waters: Analysis and implications for bio-optical models. Journal of Geophysical Research, 1998, 103, 31033-31044.	3.3	555
161	<title>Spatial variations of photosynthetic parameters in equatorial Pacific: forcing by vertical mixing and light penetration</title>. , 1997, 2963, 880.		1
162	<title>Spatial variability in the chlorophyll-specific absorption coefficients of phytoplankton and photosynthetic pigments in the equatorial Pacific</title>. , 1997, 2963, 179.		0

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163	Spatial variations in the chlorophyll-specific absorption coefficients of phytoplankton and photosynthetically active pigments in the equatorial Pacific. Journal of Geophysical Research, 1997, 102, 12413-12423.	3.3	88
164	Sources of variability in the column photosynthetic cross section for Antarctic coastal waters. Journal of Geophysical Research, 1997, 102, 25047-25060.	3.3	32
165	<title>Variations in the water column photosynthetic cross section for Antarctic coastal waters</title>. , 1997, , .		1
166	Determination of chlorophylls and carotenoids of marine phytoplankton: separation of chlorophyll a from divinylchlorophyll a and zeaxanthin from lutein. Journal of Plankton Research, 1996, 18, 2377-2382.	0.8	187
167	Spectral absorption and fluorescence excitation properties of phytoplanktonic populations at a mesotrophic and an oligotrophic site in the tropical North Atlantic (EUMELI program). Deep-Sea Research Part I: Oceanographic Research Papers, 1996, 43, 1215-1240.	0.6	33
168	Nitrogen- and irradiance-dependent variations of the maximum quantum yield of carbon fixation in eutrophic, mesotrophic and oligotrophic marine systems. Deep-Sea Research Part I: Oceanographic Research Papers, 1996, 43, 1241-1272.	0.6	226
169	Carbon biomass, and gross growth rates as estimated from 14C pigment labelling, during photoacclimation in Prochlorococcus CCMP 1378. Marine Ecology - Progress Series, 1996, 145, 209-221.	0.9	52
170	Specific phytoplankton biomasses and their relation to primary production in the tropical North Atlantic. Deep-Sea Research Part I: Oceanographic Research Papers, 1995, 42, 1475-1493.	0.6	108
171	Variability in the chlorophyll-specific absorption coefficients of natural phytoplankton: Analysis and parameterization. Journal of Geophysical Research, 1995, 100, 13321.	3.3	902
172	A new marine picoeucaryote: Ostreococcus tauri gen. et sp. nov. (Chlorophyta, Prasinophyceae). Phycologia, 1995, 34, 285-292.	0.6	156
173	Specific phytoplankton signatures and their relationship to hydrographic conditions in the coastal northwestern Mediterranean Sea. Marine Ecology - Progress Series, 1995, 124, 247-258.	0.9	114
174	Smallest eukaryotic organism. Nature, 1994, 370, 255-255.	13.7	303
175	Gradients of phytoplankton abundance, composition and photosynthetic pigments across the Almeria-Oran front (SW Mediterranean Sea). Journal of Marine Systems, 1994, 5, 223-233.	0.9	38
176	Phytoplankton photoadaptation related to some frontal physical processes. Journal of Marine Systems, 1994, 5, 251-265.	0.9	54
177	The trophic status of various oceanic provinces as revealed by phytoplankton pigment signatures. Limnology and Oceanography, 1994, 39, 1206-1210.	1.6	195
178	Phytoplankton dynamics associated with a geostrophic front: Ecological and biogeochemical implications. Journal of Marine Research, 1994, 52, 711-742.	0.3	135
179	Size distribution of dimethylsulfoniopropionate (DMSP) in areas of the tropical northeastern Atlantic Ocean and the Mediterranean Sea. Marine Chemistry, 1993, 44, 55-71.	0.9	58
180	<I>Prochlorococcus</I> and <I>Synechococcus</I>: A comparative study of their optical properties in relation to their size and pigmentation. Journal of Marine Research, 1993, 51, 617-649.	0.3	276

#	Article	IF	Citations
181	Relationship between the qualitative nature of particles and copepod faeces in the Irish Sea. Marine Chemistry, 1992, 40, 231-248.	0.9	17
182	Photosynthetic pigments as biomarkers oof phytoplankton populations and processes involved in the transformation of particulate organic matter at the Biotrans site (47Â°N, 20Â°W). Deep-sea Research Part A, Oceanographic Research Papers, 1991, 38, 347-355.	1.6	45
183	A biochemical investigation of a Phaeocystis sp. bloom in the Irish Sea. Journal of the Marine Biological Association of the United Kingdom, 1990, 70, 197-207.	0.4	54
184	Effect of variable nutrient supply on fatty acid composition of phytoplankton grown in an enclosed experimental ecosystem. Marine Ecology - Progress Series, 1990, 60, 123-140.	0.9	38
185	Intraspecific differences in the biochemical composition of a diatom during a spring bloom in Villefranche-sur-Mer Bay, Mediterranean Sea. Journal of Experimental Marine Biology and Ecology, 1989, 129, 17-32.	0.7	39
186	Adaptation of biochemical composition and cell size to irradiance in two microalgae: possible ecological implications. Marine Ecology - Progress Series, 1987, 40, 167-174.	0.9	44
187	A turbidostat driven and controlled by microcomputer. Aquaculture, 1985, 48, 91-95.	1.7	5
188	ESTIMATION OF OCEANIC PARTICULATE ORGANIC CARBON WITH MACHINE LEARNING. ISPRS Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences, 0, V-2-2020, 949-956.	0.0	12