

# Emmanuel S Boss

## List of Publications by Year in descending order

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202  
papers

23,716  
citations

10389

72  
h-index

9345

143  
g-index

222  
all docs

222  
docs citations

222  
times ranked

18794  
citing authors

#	ARTICLE	IF	CITATIONS
1	Structure and function of the global ocean microbiome. <i>Science</i> , 2015, 348, 1261359.	12.6	2,137
2	Climate-driven trends in contemporary ocean productivity. <i>Nature</i> , 2006, 444, 752-755.	27.8	1,873
3	Eukaryotic plankton diversity in the sunlit ocean. <i>Science</i> , 2015, 348, 1261605.	12.6	1,551
4	Carbon-based ocean productivity and phytoplankton physiology from space. <i>Global Biogeochemical Cycles</i> , 2005, 19, .	4.9	872
5	Determinants of community structure in the global plankton interactome. <i>Science</i> , 2015, 348, 1262073.	12.6	842
6	Plankton networks driving carbon export in the oligotrophic ocean. <i>Nature</i> , 2016, 532, 465-470.	27.8	670
7	Patterns and ecological drivers of ocean viral communities. <i>Science</i> , 2015, 348, 1261498.	12.6	617
8	Marine DNA Viral Macro- and Microdiversity from Pole to Pole. <i>Cell</i> , 2019, 177, 1109-1123.e14.	28.9	541
9	Carbon-based primary productivity modeling with vertically resolved photoacclimation. <i>Global Biogeochemical Cycles</i> , 2008, 22, .	4.9	535
10	Modeling the spectral shape of absorption by chromophoric dissolved organic matter. <i>Marine Chemistry</i> , 2004, 89, 69-88.	2.3	413
11	The role of seawater constituents in light backscattering in the ocean. <i>Progress in Oceanography</i> , 2004, 61, 27-56.	3.2	368
12	Generalized ocean color inversion model for retrieving marine inherent optical properties. <i>Applied Optics</i> , 2013, 52, 2019.	1.8	366
13	A Holistic Approach to Marine Eco-Systems Biology. <i>PLoS Biology</i> , 2011, 9, e1001177.	5.6	353
14	Resurrecting the Ecological Underpinnings of Ocean Plankton Blooms. <i>Annual Review of Marine Science</i> , 2014, 6, 167-194.	11.6	328
15	A global ocean atlas of eukaryotic genes. <i>Nature Communications</i> , 2018, 9, 373.	12.8	297
16	Satellite-detected fluorescence reveals global physiology of ocean phytoplankton. <i>Biogeosciences</i> , 2009, 6, 779-794.	3.3	280
17	Global Trends in Marine Plankton Diversity across Kingdoms of Life. <i>Cell</i> , 2019, 179, 1084-1097.e21.	28.9	271
18	An overview of approaches and challenges for retrieving marine inherent optical properties from ocean color remote sensing. <i>Progress in Oceanography</i> , 2018, 160, 186-212.	3.2	257

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19	Regional to global assessments of phytoplankton dynamics from the SeaWiFS mission. <i>Remote Sensing of Environment</i> , 2013, 135, 77-91.	11.0	254
20	Reevaluating ocean warming impacts on global phytoplankton. <i>Nature Climate Change</i> , 2016, 6, 323-330.	18.8	240
21	On the Future of Argo: A Global, Full-Depth, Multi-Disciplinary Array. <i>Frontiers in Marine Science</i> , 2019, 6, .	2.5	235
22	Globally Consistent Quantitative Observations of Planktonic Ecosystems. <i>Frontiers in Marine Science</i> , 2019, 6, .	2.5	234
23	Shape of the particulate beam attenuation spectrum and its inversion to obtain the shape of the particulate size distribution. <i>Applied Optics</i> , 2001, 40, 4885.	2.1	233
24	Subsurface maxima of phytoplankton and chlorophyll: Steady-state solutions from a simple model. <i>Limnology and Oceanography</i> , 2003, 48, 1521-1534.	3.1	228
25	The Plankton, Aerosol, Cloud, Ocean Ecosystem Mission: Status, Science, Advances. <i>Bulletin of the American Meteorological Society</i> , 2019, 100, 1775-1794.	3.3	199
26	Recommendations for obtaining unbiased chlorophyll estimates from in situ chlorophyll fluorometers: A global analysis of WET Labs ECO sensors. <i>Limnology and Oceanography: Methods</i> , 2017, 15, 572-585.	2.0	191
27	Biogeochemical sensor performance in the SOCCOM profiling float array. <i>Journal of Geophysical Research: Oceans</i> , 2017, 122, 6416-6436.	2.6	190
28	Prediction of the Export and Fate of Global Ocean Net Primary Production: The EXPORTS Science Plan. <i>Frontiers in Marine Science</i> , 2016, 3, .	2.5	179
29	Characteristics, distribution and persistence of thin layers over a 48 hour period. <i>Marine Ecology - Progress Series</i> , 2003, 261, 1-19.	1.9	171
30	Observing Biogeochemical Cycles at Global Scales with Profiling Floats and Gliders: Prospects for a Global Array. <i>Oceanography</i> , 2009, 22, 216-225.	1.0	171
31	Beam attenuation and chlorophyll concentration as alternative optical indices of phytoplankton biomass. <i>Journal of Marine Research</i> , 2006, 64, 431-451.	0.3	166
32	Significant contribution of large particles to optical backscattering in the open ocean. <i>Biogeosciences</i> , 2009, 6, 947-967.	3.3	158
33	Environmental characteristics of Agulhas rings affect interocean plankton transport. <i>Science</i> , 2015, 348, 1261-1267.	12.6	158
34	In situ evaluation of the initiation of the North Atlantic phytoplankton bloom. <i>Geophysical Research Letters</i> , 2010, 37, .	4.0	150
35	Annual boom-bust cycles of polar phytoplankton biomass revealed by space-based lidar. <i>Nature Geoscience</i> , 2017, 10, 118-122.	12.9	150
36	High-frequency in situ optical measurements during a storm event: Assessing relationships between dissolved organic matter, sediment concentrations, and hydrologic processes. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	149

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37	Viral to metazoan marine plankton nucleotide sequences from the Tara Oceans expedition. <i>Scientific Data</i> , 2017, 4, 170093.	5.3	147
38	Spectral particulate attenuation and particle size distribution in the bottom boundary layer of a continental shelf. <i>Journal of Geophysical Research</i> , 2001, 106, 9509-9516.	3.3	133
39	Spectral backscattering properties of marine phytoplankton cultures. <i>Optics Express</i> , 2010, 18, 15073.	3.4	131
40	Airborne microplastic particles detected in the remote marine atmosphere. <i>Communications Earth &amp; Environment</i> , 2020, 1, .	6.8	131
41	Student's tutorial on bloom hypotheses in the context of phytoplankton annual cycles. <i>Global Change Biology</i> , 2018, 24, 55-77.	9.5	130
42	Spectral variability of the particulate backscattering ratio. <i>Optics Express</i> , 2007, 15, 7019.	3.4	126
43	Robust algorithm for estimating total suspended solids (TSS) in inland and nearshore coastal waters. <i>Remote Sensing of Environment</i> , 2020, 246, 111768.	11.0	122
44	Annual cycles of ecological disturbance and recovery underlying the subarctic Atlantic spring plankton bloom. <i>Global Biogeochemical Cycles</i> , 2013, 27, 526-540.	4.9	119
45	Observations of pigment and particle distributions in the western North Atlantic from an autonomous float and ocean color satellite. <i>Limnology and Oceanography</i> , 2008, 53, 2112-2122.	3.1	116
46	Satellite sensor requirements for monitoring essential biodiversity variables of coastal ecosystems. <i>Ecological Applications</i> , 2018, 28, 749-760.	3.8	116
47	Coccolithovirus facilitation of carbon export in the North Atlantic. <i>Nature Microbiology</i> , 2018, 3, 537-547.	13.3	114
48	Monitoring ocean biogeochemistry with autonomous platforms. <i>Nature Reviews Earth &amp; Environment</i> , 2020, 1, 315-326.	29.7	114
49	Plankton and Particle Size and Packaging: From Determining Optical Properties to Driving the Biological Pump. <i>Annual Review of Marine Science</i> , 2012, 4, 263-290.	11.6	113
50	The North Atlantic Aerosol and Marine Ecosystem Study (NAAMES): Science Motive and Mission Overview. <i>Frontiers in Marine Science</i> , 2019, 6, .	2.5	111
51	Global satellite-observed daily vertical migrations of ocean animals. <i>Nature</i> , 2019, 576, 257-261.	27.8	111
52	Decoupling Physical from Biological Processes to Assess the Impact of Viruses on a Mesoscale Algal Bloom. <i>Current Biology</i> , 2014, 24, 2041-2046.	3.9	110
53	Photodissolution of particulate organic matter from sediments. <i>Limnology and Oceanography</i> , 2006, 51, 1064-1071.	3.1	107
54	Acceptance angle effects on the beam attenuation in the ocean. <i>Optics Express</i> , 2009, 17, 1535.	3.4	106

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55	Spatial and temporal variability of absorption by dissolved material at a continental shelf. <i>Journal of Geophysical Research</i> , 2001, 106, 9499-9507.	3.3	103
56	Single-cell genomics of multiple uncultured stramenopiles reveals underestimated functional diversity across oceans. <i>Nature Communications</i> , 2018, 9, 310.	12.8	101
57	Improved irradiances for use in ocean heating, primary production, and photo-oxidation calculations. <i>Applied Optics</i> , 2012, 51, 6549.	1.8	100
58	Uncertainties of inherent optical properties obtained from semianalytical inversions of ocean color. <i>Applied Optics</i> , 2005, 44, 4074.	2.1	98
59	Atmospheric Correction of Satellite Ocean-Color Imagery During the PACE Era. <i>Frontiers in Earth Science</i> , 2019, 7, .	1.8	98
60	The beam attenuation to chlorophyll ratio: an optical index of phytoplankton physiology in the surface ocean?. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2003, 50, 1537-1549.	1.4	95
61	Effect of particulate aggregation in aquatic environments on the beam attenuation and its utility as a proxy for particulate mass. <i>Optics Express</i> , 2009, 17, 9408.	3.4	95
62	Quantifying fluxes and characterizing compositional changes of dissolved organic matter in aquatic systems in situ using combined acoustic and optical measurements. <i>Limnology and Oceanography: Methods</i> , 2009, 7, 119-131.	2.0	94
63	Comparison of inherent optical properties as a surrogate for particulate matter concentration in coastal waters. <i>Limnology and Oceanography: Methods</i> , 2009, 7, 803-810.	2.0	91
64	Light color acclimation is a key process in the global ocean distribution of <i>Synechococcus cyanobacteria</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E2010-E2019.	7.1	91
65	Underway and Moored Methods for Improving Accuracy in Measurement of Spectral Particulate Absorption and Attenuation. <i>Journal of Atmospheric and Oceanic Technology</i> , 2010, 27, 1733-1746.	1.3	90
66	A BGC-Argo Guide: Planning, Deployment, Data Handling and Usage. <i>Frontiers in Marine Science</i> , 2019, 6, .	2.5	86
67	Spectral attenuation and backscattering as indicators of average particle size. <i>Applied Optics</i> , 2015, 54, 7264.	2.1	85
68	Decomposition of in situ particulate absorption spectra. <i>Methods in Oceanography</i> , 2013, 7, 110-124.	1.6	82
69	LISST-100 measurements of phytoplankton size distribution: evaluation of the effects of cell shape. <i>Limnology and Oceanography: Methods</i> , 2007, 5, 396-406.	2.0	80
70	Going Beyond Standard Ocean Color Observations: Lidar and Polarimetry. <i>Frontiers in Marine Science</i> , 2019, 6, .	2.5	80
71	Regulation of phytoplankton carbon to chlorophyll ratio by light, nutrients and temperature in the Equatorial Pacific Ocean: a basin-scale model. <i>Biogeosciences</i> , 2009, 6, 391-404.	3.3	78
72	Measurements of spectral optical properties and their relation to biogeochemical variables and processes in Crater Lake, Crater Lake National Park, OR. <i>Hydrobiologia</i> , 2007, 574, 149-159.	2.0	76

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73	The characteristics of particulate absorption, scattering and attenuation coefficients in the surface ocean; Contribution of the Tara Oceans expedition. <i>Methods in Oceanography</i> , 2013, 7, 52-62.	1.6	76
74	Community-Level Responses to Iron Availability in Open Ocean Plankton Ecosystems. <i>Global Biogeochemical Cycles</i> , 2019, 33, 391-419.	4.9	76
75	Observations of the sensitivity of beam attenuation to particle size in a coastal bottom boundary layer. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	75
76	Small phytoplankton dominate western North Atlantic biomass. <i>ISME Journal</i> , 2020, 14, 1663-1674.	9.8	74
77	Motion of dinoflagellates in a simple shear flow. <i>Limnology and Oceanography</i> , 2000, 45, 1594-1602.	3.1	73
78	In situ Measurements of Phytoplankton Fluorescence Using Low Cost Electronics. <i>Sensors</i> , 2013, 13, 7872-7883.	3.8	73
79	Revisiting ocean color algorithms for chlorophyll <i>a</i> and particulate organic carbon in the Southern Ocean using biogeochemical floats. <i>Journal of Geophysical Research: Oceans</i> , 2017, 122, 6583-6593.	2.6	73
80	The HydroColor App: Above Water Measurements of Remote Sensing Reflectance and Turbidity Using a Smartphone Camera. <i>Sensors</i> , 2018, 18, 256.	3.8	71
81	Inversion of inherent optical properties in optically complex waters using sentinel-3A/OLCI images: A case study using China's three largest freshwater lakes. <i>Remote Sensing of Environment</i> , 2019, 225, 328-346.	11.0	68
82	Coherence of particulate beam attenuation and backscattering coefficients in diverse open ocean environments. <i>Optics Express</i> , 2010, 18, 15419.	3.4	67
83	Regional ocean-colour chlorophyll algorithms for the Red Sea. <i>Remote Sensing of Environment</i> , 2015, 165, 64-85.	11.0	67
84	Optical backscattering is correlated with phytoplankton carbon across the Atlantic Ocean. <i>Geophysical Research Letters</i> , 2013, 40, 1154-1158.	4.0	66
85	The open-ocean missing backscattering is in the structural complexity of particles. <i>Nature Communications</i> , 2018, 9, 5439.	12.8	66
86	Turbulence-plankton interactions: a new cartoon. <i>Marine Ecology</i> , 2009, 30, 133-150.	1.1	65
87	Underway spectrophotometry along the Atlantic Meridional Transect reveals high performance in satellite chlorophyll retrievals. <i>Remote Sensing of Environment</i> , 2016, 183, 82-97.	11.0	63
88	Estimation of Phytoplankton Accessory Pigments From Hyperspectral Reflectance Spectra: Toward a Global Algorithm. <i>Journal of Geophysical Research: Oceans</i> , 2017, 122, 9725-9743.	2.6	63
89	A Review of Protocols for Fiducial Reference Measurements of Water Leaving Radiance for Validation of Satellite Remote-Sensing Data over Water. <i>Remote Sensing</i> , 2019, 11, 2198.	4.0	61
90	The Global Ocean Ship-Based Hydrographic Investigations Program (GO-SHIP): A Platform for Integrated Multidisciplinary Ocean Science. <i>Frontiers in Marine Science</i> , 2019, 6, .	2.5	60

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91	The value of adding optics to ecosystem models: a case study. <i>Biogeosciences</i> , 2007, 4, 817-835.	3.3	58
92	Oyster Aquaculture Site Selection Using Landsat 8-Derived Sea Surface Temperature, Turbidity, and Chlorophyll a. <i>Frontiers in Marine Science</i> , 2017, 4, .	2.5	58
93	Effects of particle aggregation and disaggregation on their inherent optical properties. <i>Optics Express</i> , 2011, 19, 7945.	3.4	56
94	Theoretical derivation of the depth average of remotely sensed optical parameters. <i>Optics Express</i> , 2005, 13, 9052.	3.4	55
95	Influence of Raman scattering on ocean color inversion models. <i>Applied Optics</i> , 2013, 52, 5552.	1.8	54
96	Role of iron and organic carbon in mass-specific light absorption by particulate matter from Louisiana coastal waters. <i>Limnology and Oceanography</i> , 2012, 57, 97-112.	3.1	52
97	Calibrated near-forward volume scattering function obtained from the LISST particle sizer. <i>Optics Express</i> , 2006, 14, 3602.	3.4	51
98	Seasonal modulation of phytoplankton biomass in the Southern Ocean. <i>Nature Communications</i> , 2020, 11, 5364.	12.8	51
99	Optical techniques for remote and in-situ characterization of particles pertinent to GEOTRACES. <i>Progress in Oceanography</i> , 2015, 133, 43-54.	3.2	50
100	Improved correction for non-photochemical quenching of in situ chlorophyll fluorescence based on a synchronous irradiance profile. <i>Optics Express</i> , 2018, 26, 24734.	3.4	50
101	Thoughts on the evolution and ecological niche of diatoms. <i>Ecological Monographs</i> , 2021, 91, e01457.	5.4	50
102	The Tara Pacific expedition – A pan-ecosystemic approach of the –omics– complexity of coral reef holobionts across the Pacific Ocean. <i>PLoS Biology</i> , 2019, 17, e3000483.	5.6	48
103	Stability of a potential vorticity front: from quasi-geostrophy to shallow water. <i>Journal of Fluid Mechanics</i> , 1996, 315, 65-84.	3.4	47
104	The New Age of Hyperspectral Oceanography. <i>Oceanography</i> , 2004, 17, 16-23.	1.0	47
105	Correction of profiles of in-situ chlorophyll fluorometry for the contribution of fluorescence originating from non-algal matter. <i>Limnology and Oceanography: Methods</i> , 2017, 15, 80-93.	2.0	44
106	Methyl mercury dynamics in a tidal wetland quantified using in situ optical measurements. <i>Limnology and Oceanography</i> , 2011, 56, 1355-1371.	3.1	43
107	Factors driving the seasonal and hourly variability of sea-spray aerosol number in the North Atlantic. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 20309-20314.	7.1	43
108	Evaluating satellite estimates of particulate backscatter in the global open ocean using autonomous profiling floats. <i>Optics Express</i> , 2019, 27, 30191.	3.4	43

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109	Expanding Tara Oceans Protocols for Underway, Ecosystemic Sampling of the Ocean-Atmosphere Interface During Tara Pacific Expedition (2016–2018). <i>Frontiers in Marine Science</i> , 2019, 6, .	2.5	42
110	Two databases derived from BGC-Argo float measurements for marine biogeochemical and bio-optical applications. <i>Earth System Science Data</i> , 2017, 9, 861-880.	9.9	42
111	Method for estimating mean particle size from high-frequency fluctuations in beam attenuation or scattering measurements. <i>Applied Optics</i> , 2013, 52, 6710.	1.8	41
112	Phytoplankton Growth and Productivity in the Western North Atlantic: Observations of Regional Variability From the NAAMES Field Campaigns. <i>Frontiers in Marine Science</i> , 2020, 7, .	2.5	41
113	Inferring phytoplankton carbon and eco-physiological rates from diel cycles of spectral particulate beam-attenuation coefficient. <i>Biogeosciences</i> , 2011, 8, 3423-3439.	3.3	40
114	Pan-Arctic optical characteristics of colored dissolved organic matter: Tracing dissolved organic carbon in changing Arctic waters using satellite ocean color data. <i>Remote Sensing of Environment</i> , 2017, 200, 89-101.	11.0	39
115	Evaluation of diagnostic pigments to estimate phytoplankton size classes. <i>Limnology and Oceanography: Methods</i> , 2020, 18, 570-584.	2.0	38
116	Modeling Atmosphere-Ocean Radiative Transfer: A PACE Mission Perspective. <i>Frontiers in Earth Science</i> , 2019, 7, .	1.8	37
117	Retrieving Aerosol Characteristics From the PACE Mission, Part 2: Multi-Angle and Polarimetry. <i>Frontiers in Environmental Science</i> , 2019, 7, .	3.3	37
118	A Review of Protocols for Fiducial Reference Measurements of Downwelling Irradiance for the Validation of Satellite Remote Sensing Data over Water. <i>Remote Sensing</i> , 2019, 11, 1742.	4.0	37
119	Assessment of Export Efficiency Equations in the Southern Ocean Applied to Satellite-Based Net Primary Production. <i>Journal of Geophysical Research: Oceans</i> , 2018, 123, 2945-2964.	2.6	35
120	Retrieving marine inherent optical properties from satellites using temperature and salinity-dependent backscattering by seawater. <i>Optics Express</i> , 2013, 21, 32611.	3.4	32
121	Estimating the maritime component of aerosol optical depth and its dependency on surface wind speed using satellite data. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 6711-6720.	4.9	31
122	Underway sampling of marine inherent optical properties on the Tara Oceans expedition as a novel resource for ocean color satellite data product validation. <i>Methods in Oceanography</i> , 2013, 7, 40-51.	1.6	31
123	Autonomous, high-resolution observations of particle flux in the oligotrophic ocean. <i>Biogeosciences</i> , 2013, 10, 5517-5531.	3.3	31
124	Retrieving Aerosol Characteristics From the PACE Mission, Part 1: Ocean Color Instrument. <i>Frontiers in Earth Science</i> , 2019, 7, .	1.8	31
125	Particulate Backscattering in the Global Ocean: A Comparison of Independent Assessments. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL090909.	4.0	31
126	Aerial Imaging of Fluorescent Dye in the Near Shore. <i>Journal of Atmospheric and Oceanic Technology</i> , 2014, 31, 1410-1421.	1.3	30



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127	Satellite Radiation Products for Ocean Biology and Biogeochemistry: Needs, State-of-the-Art, Gaps, Development Priorities, and Opportunities. <i>Frontiers in Marine Science</i> , 2018, 5, .	2.5	30
128	Deep maxima of phytoplankton biomass, primary production and bacterial production in the Mediterranean Sea. <i>Biogeosciences</i> , 2021, 18, 1749-1767.	3.3	30
129	Seasonal bias in global ocean color observations. <i>Applied Optics</i> , 2021, 60, 6978.	1.8	30
130	The underwater photic environment of Cape Maclear, Lake Malawi: comparison between rock- and sand-bottom habitats and implications for cichlid fish vision. <i>Journal of Experimental Biology</i> , 2011, 214, 487-500.	1.7	29
131	Significance of scattering by oceanic particles at angles around 120 degree. <i>Optics Express</i> , 2014, 22, 31329.	3.4	29
132	ProVal: A New Autonomous Profiling Float for High Quality Radiometric Measurements. <i>Frontiers in Marine Science</i> , 2018, 5, .	2.5	29
133	A limited effect of sub-tropical typhoons on phytoplankton dynamics. <i>Biogeosciences</i> , 2021, 18, 849-859.	3.3	29
134	Dispersion/dilution enhances phytoplankton blooms in low-nutrient waters. <i>Nature Communications</i> , 2017, 8, 14868.	12.8	28
135	An operational overview of the EXport Processes in the Ocean from RemoTe Sensing (EXPORTS) Northeast Pacific field deployment. <i>Elementa</i> , 2021, 9, .	3.2	28
136	Why Should We Measure the Optical Backscattering Coefficient?. <i>Oceanography</i> , 2004, 17, 44-49.	1.0	28
137	Particulate concentration and seasonal dynamics in the mesopelagic ocean based on the backscattering coefficient measured with Biogeochemicalâ€Argo floats. <i>Geophysical Research Letters</i> , 2017, 44, 6933-6939.	4.0	27
138	The influence of bottom morphology on reflectance: Theory and two-dimensional geometry model. <i>Limnology and Oceanography</i> , 2003, 48, 374-379.	3.1	25
139	Mercury Dynamics in a San Francisco Estuary Tidal Wetland: Assessing Dynamics Using In Situ Measurements. <i>Estuaries and Coasts</i> , 2012, 35, 1036-1048.	2.2	25
140	Vector radiative transfer model for coupled atmosphere and ocean systems including inelastic sources in ocean waters. <i>Optics Express</i> , 2017, 25, A223.	3.4	25
141	Southern Ocean Biogeochemical Float Deployment Strategy, With Example From the Greenwich Meridian Line (GOâ€SHIP A12). <i>Journal of Geophysical Research: Oceans</i> , 2019, 124, 403-431.	2.6	25
142	Phytoplankton community structuring and succession in a competition-neutral resource landscape. <i>ISME Communications</i> , 2021, 1, .	4.2	24
143	Assessing contribution of DOC from sediments to a drinking-water reservoir using optical profiling. <i>Lake and Reservoir Management</i> , 2008, 24, 381-391.	1.3	23
144	Validation of Ocean Color Remote Sensing Reflectance Using Autonomous Floats. <i>Journal of Atmospheric and Oceanic Technology</i> , 2016, 33, 2331-2352.	1.3	23

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145	Rate and apparent quantum yield of photodissolution of sedimentary organic matter. <i>Limnology and Oceanography</i> , 2012, 57, 1743-1756.	3.1	22
146	The Elongated, the Squat and the Spherical: Selective Pressures for Phytoplankton Shape. , 2016, , 25-34.		22
147	Southern Ocean Phytoplankton Blooms Observed by Biogeochemical Floats. <i>Journal of Geophysical Research: Oceans</i> , 2019, 124, 7328-7343.	2.6	21
148	Temporal and Vertical Variations of Particulate and Dissolved Optical Properties in the South China Sea. <i>Journal of Geophysical Research: Oceans</i> , 2019, 124, 3779-3795.	2.6	21
149	Validation of the particle size distribution obtained with the laser in-situ scattering and transmission (LISST) meter in flow-through mode. <i>Optics Express</i> , 2018, 26, 11125.	3.4	20
150	Detecting Mesopelagic Organisms Using Biogeochemicalâ€Argo Floats. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL086088.	4.0	20
151	A comparison of hydrographically and optically derived mixed layer depths. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	19
152	An Algorithm to Estimate Suspended Particulate Matter Concentrations and Associated Uncertainties from Remote Sensing Reflectance in Coastal Environments. <i>Remote Sensing</i> , 2020, 12, 2172.	4.0	19
153	Phytoplankton Phenology in the North Atlantic: Insights From Profiling Float Measurements. <i>Frontiers in Marine Science</i> , 2020, 7, .	2.5	19
154	Information content of absorption spectra and implications for ocean color inversion. <i>Applied Optics</i> , 2020, 59, 3971.	1.8	19
155	Seasonal mixed layer depth shapes phytoplankton physiology, viral production, and accumulation in the North Atlantic. <i>Nature Communications</i> , 2021, 12, 6634.	12.8	19
156	Variability of Suspended Particle Properties Using Optical Measurements Within the Columbia River Estuary. <i>Journal of Geophysical Research: Oceans</i> , 2018, 123, 6296-6311.	2.6	18
157	Harnessing remote sensing to address critical science questions on ocean-atmosphere interactions. <i>Elementa</i> , 2018, 6, .	3.2	18
158	Retrieval of Phytoplankton Pigments from Underway Spectrophotometry in the Fram Strait. <i>Remote Sensing</i> , 2019, 11, 318.	4.0	16
159	Evaluation of Ocean Color Remote Sensing Algorithms for Diffuse Attenuation Coefficients and Optical Depths with Data Collected on BGC-Argo Floats. <i>Remote Sensing</i> , 2020, 12, 2367.	4.0	16
160	Determination of the absorption coefficient of chromophoric dissolved organic matter from underway spectrophotometry. <i>Optics Express</i> , 2017, 25, A1079.	3.4	15
161	Shifts in Phytoplankton Community Structure Across an Anticyclonic Eddy Revealed From High Spectral Resolution Lidar Scattering Measurements. <i>Frontiers in Marine Science</i> , 2020, 7, .	2.5	15
162	In Situ Estimates of Net Primary Production in the Western North Atlantic With Argo Profiling Floats. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2021, 126, e2020JG006116.	3.0	15

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163	Bio-optical observations of the 2004 Labrador Sea phytoplankton bloom. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	14
164	Contribution of Raman scattering to polarized radiation field in ocean waters. <i>Optics Express</i> , 2015, 23, 23582.	3.4	14
165	Analytical solution of the nitracline with the evolution of subsurface chlorophyll maximum in stratified water columns. <i>Biogeosciences</i> , 2017, 14, 2371-2386.	3.3	14
166	Advantages and Limitations to the Use of Optical Measurements to Study Sediment Properties. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 2692.	2.5	14
167	Phytoplankton biodiversity and the inverted paradox. <i>ISME Communications</i> , 2021, 1, .	4.2	14
168	Optical properties of the Dead Sea. <i>Journal of Geophysical Research: Oceans</i> , 2013, 118, 1821-1829.	2.6	13
169	Radiative Transfer Modeling of Phytoplankton Fluorescence Quenching Processes. <i>Remote Sensing</i> , 2018, 10, 1309.	4.0	12
170	Chlorophyll-based Model to Estimate Underwater Photosynthetically Available Radiation for Modeling, In-situ , and Remote Sensing Applications. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL092189.	4.0	12
171	A global compilation of in situ aquatic high spectral resolution inherent and apparent optical property data for remote sensing applications. <i>Earth System Science Data</i> , 2020, 12, 1123-1139.	9.9	12
172	Predictability of Seawater DMS During the North Atlantic Aerosol and Marine Ecosystem Study (NAAMES). <i>Frontiers in Marine Science</i> , 2021, 7, .	2.5	11
173	Australian fire nourishes ocean phytoplankton bloom. <i>Science of the Total Environment</i> , 2022, 807, 150775.	8.0	11
174	Phytoplankton size distributions in the western North Atlantic and their seasonal variability. <i>Limnology and Oceanography</i> , 2022, 67, 1865-1878.	3.1	11
175	Evaluation of Optical Proxies for Suspended Particulate Mass in Stratified Waters. <i>Journal of Atmospheric and Oceanic Technology</i> , 2017, 34, 2203-2212.	1.3	10
176	Simplified model of spectral absorption by non-algal particles and dissolved organic materials in aquatic environments. <i>Optics Express</i> , 2017, 25, 25486.	3.4	10
177	Inherent optical properties of suspended particulates in four temperate lakes: application of in situ spectroscopy. <i>Hydrobiologia</i> , 2013, 713, 127-148.	2.0	9
178	Tara Pacific Expedition's Atmospheric Measurements of Marine Aerosols across the Atlantic and Pacific Oceans: Overview and Preliminary Results. <i>Bulletin of the American Meteorological Society</i> , 2020, 101, E536-E554.	3.3	9
179	Relationships between optical backscattering, particulate organic carbon, and phytoplankton carbon in the oligotrophic South China Sea basin. <i>Optics Express</i> , 2021, 29, 15159.	3.4	9
180	Bio-GO-SHIP: The Time Is Right to Establish Global Repeat Sections of Ocean Biology. <i>Frontiers in Marine Science</i> , 2022, 8, .	2.5	9

#	ARTICLE	IF	CITATIONS
181	Seasonal nutrient and plankton dynamics in a physical-biological model of Crater Lake. <i>Hydrobiologia</i> , 2007, 574, 265-280.	2.0	7
182	An Evaluation of Acoustic Doppler Velocimeters as Sensors to Obtain the Concentration of Suspended Mass in Water. <i>Journal of Atmospheric and Oceanic Technology</i> , 2012, 29, 755-761.	1.3	7
183	Deriving the angular response function for backscattering sensors. <i>Applied Optics</i> , 2021, 60, 8676.	1.8	7
184	Oyster Aquaculture Site Selection Using High-Resolution Remote Sensing: A Case Study in the Gulf of Maine, United States. <i>Frontiers in Marine Science</i> , 2022, 9, .	2.5	6
185	Using High-Resolution Remote Sensing to Characterize Suspended Particulate Organic Matter as Bivalve Food for Aquaculture Site Selection. <i>Journal of Shellfish Research</i> , 2021, 40, .	0.9	5
186	Diel cycle of sea spray aerosol concentration. <i>Nature Communications</i> , 2021, 12, 5476.	12.8	5
187	Algorithm to derive inherent optical properties from remote sensing reflectance in turbid and eutrophic lakes. <i>Applied Optics</i> , 2019, 58, 8549.	1.8	5
188	Inlinino: A Modular Software Data Logger for Oceanography. <i>Oceanography</i> , 2020, 33, 80-84.	1.0	5
189	Toward deeper development of Biogeochemical-Argo floats. <i>Atmospheric and Oceanic Science Letters</i> , 2018, 11, 287-290.	1.3	4
190	Correction of Biogeochemical-Argo Radiometry for Sensor Temperature-Dependence and Drift: Protocols for a Delayed-Mode Quality Control. <i>Sensors</i> , 2021, 21, 6217.	3.8	4
191	Chlorophyll absorption and phytoplankton size information inferred from hyperspectral particulate beam attenuation. <i>Applied Optics</i> , 2020, 59, 6765.	1.8	4
192	Hyperspectral portable beam transmissometer for the ultraviolet-visible spectrum. <i>Limnology and Oceanography: Methods</i> , 2010, 8, 527-538.	2.0	3
193	Teaching Physical Concepts in Oceanography: An Inquiry-Based Approach. <i>Oceanography</i> , 2009, , .	1.0	3
194	Alignment of optical backscatter measurements from the EXPORTS Northeast Pacific Field Deployment. <i>Elementa</i> , 2022, 10, .	3.2	3
195	Editorial Note "Effects of water discharge and sediment load on evolution of modern Yellow River Delta, China, over the period from 1976 to 2009" published in <i>Biogeosciences</i> , 8, 2427-2435, 2011. <i>Biogeosciences</i> , 2011, 8, 2867-2867.	3.3	2
196	Engineering Literacy for Undergraduates in Marine Science: A Case for Hands On. <i>Oceanography</i> , 2012, 25, 219-221.	1.0	2
197	Evaluation of a compact sensor for backscattering and absorption. <i>Applied Optics</i> , 2011, 50, 3758.	2.1	1
198	Remote identification of the invasive tunicate <i>Didemnum vexillum</i> using reflectance spectroscopy. <i>Applied Optics</i> , 2013, 52, 1758.	1.8	1

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199	Advice for Young Scientists on Fruitful Membership in the Scientific Community. Oceanography, 2018, 31, .	1.0	1
200	pySAS: Autonomous Solar Tracking System for Surface Water Radiometric Measurements. Oceanography, 2022, , .	1.0	1
201	Diffusion at Workâ€™An Interactive Simulation. Oceanography, 2007, 20, 127-131.	1.0	0
202	Marine Aerosols: Measurements by the Tara Pacific Expedition. Bulletin of the American Meteorological Society, 2020, 101, 499-504.	3.3	0