

Emmanuel S Boss

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

194
papers

15,651
citations

60
h-index

122
g-index

221
ext. papers

20,321
ext. citations

7.2
avg, IF

6.47
L-index

#	Paper	IF	Citations
194	Climate-driven trends in contemporary ocean productivity. <i>Nature</i> , 2006 , 444, 752-5	50.4	1502
193	Ocean plankton. Structure and function of the global ocean microbiome. <i>Science</i> , 2015 , 348, 1261359	33.3	1261
192	Ocean plankton. Eukaryotic plankton diversity in the sunlit ocean. <i>Science</i> , 2015 , 348, 1261605	33.3	990
191	Carbon-based ocean productivity and phytoplankton physiology from space. <i>Global Biogeochemical Cycles</i> , 2005 , 19,	5.9	671
190	Ocean plankton. Determinants of community structure in the global plankton interactome. <i>Science</i> , 2015 , 348, 1262073	33.3	496
189	Ocean plankton. Patterns and ecological drivers of ocean viral communities. <i>Science</i> , 2015 , 348, 1261498	33.3	421
188	Carbon-based primary productivity modeling with vertically resolved photoacclimation. <i>Global Biogeochemical Cycles</i> , 2008 , 22, n/a-n/a	5.9	401
187	Plankton networks driving carbon export in the oligotrophic ocean. <i>Nature</i> , 2016 , 532, 465-470	50.4	392
186	Modeling the spectral shape of absorption by chromophoric dissolved organic matter. <i>Marine Chemistry</i> , 2004 , 89, 69-88	3.7	356
185	The role of seawater constituents in light backscattering in the ocean. <i>Progress in Oceanography</i> , 2004 , 61, 27-56	3.8	269
184	A holistic approach to marine eco-systems biology. <i>PLoS Biology</i> , 2011 , 9, e1001177	9.7	265
183	Generalized ocean color inversion model for retrieving marine inherent optical properties. <i>Applied Optics</i> , 2013 , 52, 2019-37	1.7	263
182	Marine DNA Viral Macro- and Microdiversity from Pole to Pole. <i>Cell</i> , 2019 , 177, 1109-1123.e14	56.2	256
181	Resurrecting the ecological underpinnings of ocean plankton blooms. <i>Annual Review of Marine Science</i> , 2014 , 6, 167-94	15.4	235
180	Satellite-detected fluorescence reveals global physiology of ocean phytoplankton. <i>Biogeosciences</i> , 2009 , 6, 779-794	4.6	204
179	Regional to global assessments of phytoplankton dynamics from the SeaWiFS mission. <i>Remote Sensing of Environment</i> , 2013 , 135, 77-91	13.2	201
178	Subsurface maxima of phytoplankton and chlorophyll: Steady-state solutions from a simple model. <i>Limnology and Oceanography</i> , 2003 , 48, 1521-1534	4.8	185

177	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, 4885-93	1.7	174
176	A global ocean atlas of eukaryotic genes. <i>Nature Communications</i> , 2018 , 9, 373	17.4	168
175	Revaluating ocean warming impacts on global phytoplankton. <i>Nature Climate Change</i> , 2016 , 6, 323-330	21.4	156
174	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	3.8	151
173	Observing Biogeochemical Cycles at Global Scales with Profiling Floats and Gliders: Prospects for a Global Array. <i>Oceanography</i> , 2009 , 22, 216-225	2.3	144
172	Beam attenuation and chlorophyll concentration as alternative optical indices of phytoplankton biomass. <i>Journal of Marine Research</i> , 2006 , 64, 431-451	1.5	137
171	Significant contribution of large particles to optical backscattering in the open ocean. <i>Biogeosciences</i> , 2009 , 6, 947-967	4.6	133
170	In situ evaluation of the initiation of the North Atlantic phytoplankton bloom. <i>Geophysical Research Letters</i> , 2010 , 37, n/a-n/a	4.9	124
169	Characteristics, distribution and persistence of thin layers over a 48 hour period. <i>Marine Ecology - Progress Series</i> , 2003 , 261, 1-19	2.6	122
168	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,		121
167	Biogeochemical sensor performance in the SOCCOM profiling float array. <i>Journal of Geophysical Research: Oceans</i> , 2017 , 122, 6416-6436	3.3	120
166	On the Future of Argo: A Global, Full-Depth, Multi-Disciplinary Array. <i>Frontiers in Marine Science</i> , 2019 , 6,	4.5	116
165	Spectral backscattering properties of marine phytoplankton cultures. <i>Optics Express</i> , 2010 , 18, 15073-93	3.3	114
164	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	2.6	113
163	Spectral variability of the particulate backscattering ratio. <i>Optics Express</i> , 2007 , 15, 7019-31	3.3	113
162	Global Trends in Marine Plankton Diversity across Kingdoms of Life. <i>Cell</i> , 2019 , 179, 1084-1097.e21	56.2	108
161	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		103
160	Ocean plankton. Environmental characteristics of Agulhas rings affect interocean plankton transport. <i>Science</i> , 2015 , 348, 1261447	33.3	100

159	Prediction of the Export and Fate of Global Ocean Net Primary Production: The EXPORTS Science Plan. <i>Frontiers in Marine Science</i> , 2016 , 3,	4.5	99
158	Annual cycles of ecological disturbance and recovery underlying the subarctic Atlantic spring plankton bloom. <i>Global Biogeochemical Cycles</i> , 2013 , 27, 526-540	5.9	97
157	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	4.8	92
156	Viral to metazoan marine plankton nucleotide sequences from the Tara Oceans expedition. <i>Scientific Data</i> , 2017 , 4, 170093	8.2	89
155	Globally Consistent Quantitative Observations of Planktonic Ecosystems. <i>Frontiers in Marine Science</i> , 2019 , 6,	4.5	88
154	Acceptance angle effects on the beam attenuation in the ocean. <i>Optics Express</i> , 2009 , 17, 1535-50	3.3	88
153	Photodissolution of particulate organic matter from sediments. <i>Limnology and Oceanography</i> , 2006 , 51, 1064-1071	4.8	87
152	Annual boom-bust cycles of polar phytoplankton biomass revealed by space-based lidar. <i>Nature Geoscience</i> , 2017 , 10, 118-122	18.3	86
151	The Plankton, Aerosol, Cloud, Ocean Ecosystem Mission: Status, Science, Advances. <i>Bulletin of the American Meteorological Society</i> , 2019 , 100, 1775-1794	6.1	84
150	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, 9408-20	3.3	83
149	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	2.5	83
148	Spatial and temporal variability of absorption by dissolved material at a continental shelf. <i>Journal of Geophysical Research</i> , 2001 , 106, 9499-9507		83
147	Uncertainties of inherent optical properties obtained from semianalytical inversions of ocean color. <i>Applied Optics</i> , 2005 , 44, 4074-85	1.7	80
146	Decoupling physical from biological processes to assess the impact of viruses on a mesoscale algal bloom. <i>Current Biology</i> , 2014 , 24, 2041-6	6.3	79
145	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	2.6	78
144	Plankton and particle size and packaging: from determining optical properties to driving the biological pump. <i>Annual Review of Marine Science</i> , 2012 , 4, 263-90	15.4	73
143	Student's tutorial on bloom hypotheses in the context of phytoplankton annual cycles. <i>Global Change Biology</i> , 2018 , 24, 55-77	11.4	72
142	Spectral attenuation and backscattering as indicators of average particle size. <i>Applied Optics</i> , 2015 , 54, 7264-77	0.2	70

141	Satellite sensor requirements for monitoring essential biodiversity variables of coastal ecosystems 2018 , 28, 749-760		69
140	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	4.6	69
139	LISST-100 measurements of phytoplankton size distribution: evaluation of the effects of cell shape. <i>Limnology and Oceanography: Methods</i> , 2007 , 5, 396-406	2.6	69
138	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	2.6	68
137	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	2.4	65
136	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	2	64
135	Coccolithovirus facilitation of carbon export in the North Atlantic. <i>Nature Microbiology</i> , 2018 , 3, 537-547	26.6	63
134	Coherence of particulate beam attenuation and backscattering coefficients in diverse open ocean environments. <i>Optics Express</i> , 2010 , 18, 15419-25	3.3	59
133	Motion of dinoflagellates in a simple shear flow. <i>Limnology and Oceanography</i> , 2000 , 45, 1594-1602	4.8	59
132	The North Atlantic Aerosol and Marine Ecosystem Study (NAAMES): Science Motive and Mission Overview. <i>Frontiers in Marine Science</i> , 2019 , 6,	4.5	58
131	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		58
130	In situ measurements of phytoplankton fluorescence using low cost electronics. <i>Sensors</i> , 2013 , 13, 7872-88		58
129	Regional ocean-colour chlorophyll algorithms for the Red Sea. <i>Remote Sensing of Environment</i> , 2015 , 165, 64-85	13.2	55
128	Single-cell genomics of multiple uncultured stramenopiles reveals underestimated functional diversity across oceans. <i>Nature Communications</i> , 2018 , 9, 310	17.4	55
127	Revisiting Ocean Color algorithms for chlorophyll a and particulate organic carbon in the Southern Ocean using biogeochemical floats. <i>Journal of Geophysical Research: Oceans</i> , 2017 , 122, 6583-6593	3.3	55
126	Observations of the sensitivity of beam attenuation to particle size in a coastal bottom boundary layer. <i>Journal of Geophysical Research</i> , 2011 , 116,		54
125	Turbulence-plankton interactions: a new cartoon. <i>Marine Ecology</i> , 2009 , 30, 133-150	1.4	54
124	Atmospheric Correction of Satellite Ocean-Color Imagery During the PACE Era. <i>Frontiers in Earth Science</i> , 2019 , 7,	3.5	52

123	Light color acclimation is a key process in the global ocean distribution of. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, E2010-E2019	11.5	51
122	Optical backscattering is correlated with phytoplankton carbon across the Atlantic Ocean. <i>Geophysical Research Letters</i> , 2013 , 40, 1154-1158	4.9	51
121	Improved irradiances for use in ocean heating, primary production, and photo-oxidation calculations. <i>Applied Optics</i> , 2012 , 51, 6549-60	1.7	51
120	Theoretical derivation of the depth average of remotely sensed optical parameters. <i>Optics Express</i> , 2005 , 13, 9052-61	3.3	50
119	Monitoring ocean biogeochemistry with autonomous platforms. <i>Nature Reviews Earth & Environment</i> , 2020 , 1, 315-326	30.2	47
118	Robust algorithm for estimating total suspended solids (TSS) in inland and nearshore coastal waters. <i>Remote Sensing of Environment</i> , 2020 , 246, 111768	13.2	47
117	Effects of particle aggregation and disaggregation on their inherent optical properties. <i>Optics Express</i> , 2011 , 19, 7945-59	3.3	47
116	Underway spectrophotometry along the Atlantic Meridional Transect reveals high performance in satellite chlorophyll retrievals. <i>Remote Sensing of Environment</i> , 2016 , 183, 82-97	13.2	47
115	The HydroColor App: Above Water Measurements of Remote Sensing Reflectance and Turbidity Using a Smartphone Camera. <i>Sensors</i> , 2018 , 18,	3.8	46
114	Decomposition of in situ particulate absorption spectra. <i>Methods in Oceanography</i> , 2013 , 7, 110-124		46
113	Influence of Raman scattering on ocean color inversion models. <i>Applied Optics</i> , 2013 , 52, 5552-61	1.7	45
112	Calibrated near-forward volume scattering function obtained from the LISST particle sizer. <i>Optics Express</i> , 2006 , 14, 3602-15	3.3	43
111	Stability of a potential vorticity front: from quasi-geostrophy to shallow water. <i>Journal of Fluid Mechanics</i> , 1996 , 315, 65-84	3.7	43
110	Airborne microplastic particles detected in the remote marine atmosphere. <i>Communications Earth & Environment</i> , 2020 , 1,	6.1	43
109	Community-Level Responses to Iron Availability in Open Ocean Plankton Ecosystems. <i>Global Biogeochemical Cycles</i> , 2019 , 33, 391-419	5.9	42
108	Going Beyond Standard Ocean Color Observations: Lidar and Polarimetry. <i>Frontiers in Marine Science</i> , 2019 , 6,	4.5	41
107	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	4.8	40
106	The value of adding optics to ecosystem models: a case study. <i>Biogeosciences</i> , 2007 , 4, 817-835	4.6	40

105	The open-ocean missing backscattering is in the structural complexity of particles. <i>Nature Communications</i> , 2018 , 9, 5439	17.4	39
104	Global satellite-observed daily vertical migrations of ocean animals. <i>Nature</i> , 2019 , 576, 257-261	50.4	38
103	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	13.2	36
102	Estimation of Phytoplankton Accessory Pigments From Hyperspectral Reflectance Spectra: Toward a Global Algorithm. <i>Journal of Geophysical Research: Oceans</i> , 2017 , 122, 9725-9743	3.3	36
101	Oyster Aquaculture Site Selection Using Landsat 8-Derived Sea Surface Temperature, Turbidity, and Chlorophyll a. <i>Frontiers in Marine Science</i> , 2017 , 4,	4.5	36
100	The New Age of Hyperspectral Oceanography. <i>Oceanography</i> , 2004 , 17, 16-23	2.3	36
99	A BGC-Argo Guide: Planning, Deployment, Data Handling and Usage. <i>Frontiers in Marine Science</i> , 2019 , 6,	4.5	34
98	Methyl mercury dynamics in a tidal wetland quantified using in situ optical measurements. <i>Limnology and Oceanography</i> , 2011 , 56, 1355-1371	4.8	34
97	A Review of Protocols for Fiducial Reference Measurements of WaterLeaving Radiance for Validation of Satellite Remote-Sensing Data over Water. <i>Remote Sensing</i> , 2019 , 11, 2198	5	34
96	Optical techniques for remote and in-situ characterization of particles pertinent to GEOTRACES. <i>Progress in Oceanography</i> , 2015 , 133, 43-54	3.8	33
95	Inferring phytoplankton carbon and eco-physiological rates from diel cycles of spectral particulate beam-attenuation coefficient. <i>Biogeosciences</i> , 2011 , 8, 3423-3439	4.6	33
94	Small phytoplankton dominate western North Atlantic biomass. <i>ISME Journal</i> , 2020 , 14, 1663-1674	11.9	32
93	Improved correction for non-photochemical quenching of in situ chlorophyll fluorescence based on a synchronous irradiance profile. <i>Optics Express</i> , 2018 , 26, 24734-24751	3.3	32
92	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	2.6	31
91	Method for estimating mean particle size from high-frequency fluctuations in beam attenuation or scattering measurements. <i>Applied Optics</i> , 2013 , 52, 6710-25	1.7	28
90	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	10.5	28
89	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,	4.5	27
88	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		27

87	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	6.8	27
86	Aerial Imaging of Fluorescent Dye in the Near Shore. <i>Journal of Atmospheric and Oceanic Technology</i> , 2014 , 31, 1410-1421	2	26
85	Autonomous, high-resolution observations of particle flux in the oligotrophic ocean. <i>Biogeosciences</i> , 2013 , 10, 5517-5531	4.6	26
84	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	13.2	24
83	Retrieving marine inherent optical properties from satellites using temperature and salinity-dependent backscattering by seawater. <i>Optics Express</i> , 2013 , 21, 32611-22	3.3	24
82	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	3	24
81	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	11.5	23
80	Significance of scattering by oceanic particles at angles around 120 degree. <i>Optics Express</i> , 2014 , 22, 31329-36	3.3	23
79	Why Should We Measure the Optical Backscattering Coefficient?. <i>Oceanography</i> , 2004 , 17, 44-49	2.3	22
78	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	5	21
77	Vector radiative transfer model for coupled atmosphere and ocean systems including inelastic sources in ocean waters. <i>Optics Express</i> , 2017 , 25, A223-A239	3.3	21
76	Modeling Atmosphere-Ocean Radiative Transfer: A PACE Mission Perspective. <i>Frontiers in Earth Science</i> , 2019 , 7,	3.5	20
75	Rate and apparent quantum yield of photodissolution of sedimentary organic matter. <i>Limnology and Oceanography</i> , 2012 , 57, 1743-1756	4.8	20
74	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,	4.5	19
73	Retrieving Aerosol Characteristics From the PACE Mission, Part 2: Multi-Angle and Polarimetry. <i>Frontiers in Environmental Science</i> , 2019 , 7,	4.8	19
72	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	19
71	ProVal: A New Autonomous Profiling Float for High Quality Radiometric Measurements. <i>Frontiers in Marine Science</i> , 2018 , 5,	4.5	19
70	Dispersion/dilution enhances phytoplankton blooms in low-nutrient waters. <i>Nature Communications</i> , 2017 , 8, 14868	17.4	18

69	Particulate concentration and seasonal dynamics in the mesopelagic ocean based on the backscattering coefficient measured with Biogeochemical-Argo floats. <i>Geophysical Research Letters</i> , 2017 , 44, 6933-6939	4.9	18
68	Seasonal modulation of phytoplankton biomass in the Southern Ocean. <i>Nature Communications</i> , 2020 , 11, 5364	17.4	18
67	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,	4.5	18
66	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	9.7	17
65	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,	4.5	17
64	Mercury Dynamics in a San Francisco Estuary Tidal Wetland: Assessing Dynamics Using In Situ Measurements. <i>Estuaries and Coasts</i> , 2012 , 35, 1036-1048	2.8	17
63	The Elongated, the Squat and the Spherical: Selective Pressures for Phytoplankton Shape 2016 , 25-34		16
62	Validation of Ocean Color Remote Sensing Reflectance Using Autonomous Floats. <i>Journal of Atmospheric and Oceanic Technology</i> , 2016 , 33, 2331-2352	2	16
61	A comparison of hydrographically and optically derived mixed layer depths. <i>Journal of Geophysical Research</i> , 2005 , 110,		16
60	The influence of bottom morphology on reflectance: Theory and two-dimensional geometry model. <i>Limnology and Oceanography</i> , 2003 , 48, 374-379	4.8	16
59	Evaluating satellite estimates of particulate backscatter in the global open ocean using autonomous profiling floats. <i>Optics Express</i> , 2019 , 27, 30191-30203	3.3	16
58	Evaluation of diagnostic pigments to estimate phytoplankton size classes. <i>Limnology and Oceanography: Methods</i> , 2020 , 18, 570-584	2.6	16
57	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	3.3	16
56	Variability of Suspended Particle Properties Using Optical Measurements Within the Columbia River Estuary. <i>Journal of Geophysical Research: Oceans</i> , 2018 , 123, 6296-6311	3.3	15
55	Retrieving Aerosol Characteristics From the PACE Mission, Part 1: Ocean Color Instrument. <i>Frontiers in Earth Science</i> , 2019 , 7,	3.5	14
54	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	3.3	13
53	Southern Ocean Biogeochemical Float Deployment Strategy, With Example From the Greenwich Meridian Line (GO-SHIP A12). <i>Journal of Geophysical Research: Oceans</i> , 2019 , 124, 403-431	3.3	13
52	Contribution of Raman scattering to polarized radiation field in ocean waters. <i>Optics Express</i> , 2015 , 23, 23582-96	3.3	12

51	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, 11125-11136	3.3	12
50	Optical properties of the Dead Sea. <i>Journal of Geophysical Research: Oceans</i> , 2013 , 118, 1821-1829	3.3	12
49	Bio-optical observations of the 2004 Labrador Sea phytoplankton bloom. <i>Journal of Geophysical Research</i> , 2011 , 116,		12
48	Thoughts on the evolution and ecological niche of diatoms. <i>Ecological Monographs</i> , 2021 , 91, e01457	9	12
47	Harnessing remote sensing to address critical science questions on ocean-atmosphere interactions. <i>Elementa</i> , 2018 , 6,	3.6	11
46	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	5	11
45	Detecting Mesopelagic Organisms Using Biogeochemical-Argo Floats. <i>Geophysical Research Letters</i> , 2020 , 47, e2019GL086088	4.9	10
44	Analytical solution of the nitracline with the evolution of subsurface chlorophyll maximum in stratified water columns. <i>Biogeosciences</i> , 2017 , 14, 2371-2386	4.6	10
43	Deep maxima of phytoplankton biomass, primary production and bacterial production in the Mediterranean Sea. <i>Biogeosciences</i> , 2021 , 18, 1749-1767	4.6	10
42	Radiative Transfer Modeling of Phytoplankton Fluorescence Quenching Processes. <i>Remote Sensing</i> , 2018 , 10, 1309	5	10
41	Phytoplankton Phenology in the North Atlantic: Insights From Profiling Float Measurements. <i>Frontiers in Marine Science</i> , 2020 , 7,	4.5	9
40	Information content of absorption spectra and implications for ocean color inversion. <i>Applied Optics</i> , 2020 , 59, 3971-3984	1.7	9
39	A limited effect of sub-tropical typhoons on phytoplankton dynamics. <i>Biogeosciences</i> , 2021 , 18, 849-859	4.6	9
38	Inherent optical properties of suspended particulates in four temperate lakes: application of in situ spectroscopy. <i>Hydrobiologia</i> , 2013 , 713, 127-148	2.4	8
37	Determination of the absorption coefficient of chromophoric dissolved organic matter from underway spectrophotometry. <i>Optics Express</i> , 2017 , 25, A1079-A1095	3.3	8
36	Southern Ocean Phytoplankton Blooms Observed by Biogeochemical Floats. <i>Journal of Geophysical Research: Oceans</i> , 2019 , 124, 7328-7343	3.3	7
35	Seasonal nutrient and plankton dynamics in a physical-biological model of Crater Lake. <i>Hydrobiologia</i> , 2007 , 574, 265-280	2.4	7
34	Evaluation of Optical Proxies for Suspended Particulate Mass in Stratified Waters. <i>Journal of Atmospheric and Oceanic Technology</i> , 2017 , 34, 2203-2212	2	6

33	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	10.5	6
32	Phytoplankton community structuring and succession in a competition-neutral resource landscape. <i>ISME Communications</i> , 2021 , 1,		6
31	Retrieval of Phytoplankton Pigments from Underway Spectrophotometry in the Fram Strait. <i>Remote Sensing</i> , 2019 , 11, 318	5	6
30	An operational overview of the EXport Processes in the Ocean from RemoTe Sensing (EXPORTS) Northeast Pacific field deployment. <i>Elementa</i> , 2021 , 9,	3.6	6
29	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	2	5
28	Algorithm to derive inherent optical properties from remote sensing reflectance in turbid and eutrophic lakes. <i>Applied Optics</i> , 2019 , 58, 8549-8564	1.7	5
27	Tara Pacific Expedition—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	6.1	5
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