

Emmanuel S Boss

List of Publications by Year in Descending Order

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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	Australian fire nourishes ocean phytoplankton bloom. <i>Science of the Total Environment</i> , 2022 , 807, 150775.2	15.2	1
193	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,	4.5	1
192	Seasonal mixed layer depth shapes phytoplankton physiology, viral production, and accumulation in the North Atlantic. <i>Nature Communications</i> , 2021 , 12, 6634	17.4	2
191	Phytoplankton biodiversity and the inverted paradox. <i>ISME Communications</i> , 2021 , 1,		1
190	Deep maxima of phytoplankton biomass, primary production and bacterial production in the Mediterranean Sea. <i>Biogeosciences</i> , 2021 , 18, 1749-1767	4.6	10
189	Phytoplankton community structuring and succession in a competition-neutral resource landscape. <i>ISME Communications</i> , 2021 , 1,		6
188	Chlorophyll-Based Model to Estimate Underwater Photosynthetically Available Radiation for Modeling, In-Situ, and Remote-Sensing Applications. <i>Geophysical Research Letters</i> , 2021 , 48, e2020GL092489	4.9	2
187	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,	1	2
186	Thoughts on the evolution and ecological niche of diatoms. <i>Ecological Monographs</i> , 2021 , 91, e01457	9	12
185	Relationships between optical backscattering, particulate organic carbon, and phytoplankton carbon in the oligotrophic South China Sea basin. <i>Optics Express</i> , 2021 , 29, 15159-15176	3.3	1
184	Particulate Backscattering in the Global Ocean: A Comparison of Independent Assessments. <i>Geophysical Research Letters</i> , 2021 , 48, e2020GL090909	4.9	4
183	Predictability of Seawater DMS During the North Atlantic Aerosol and Marine Ecosystem Study (NAAMES). <i>Frontiers in Marine Science</i> , 2021 , 7,	4.5	3
182	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
181	A limited effect of sub-tropical typhoons on phytoplankton dynamics. <i>Biogeosciences</i> , 2021 , 18, 849-859	4.6	9
180	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	3.7	4
179	Seasonal bias in global ocean color observations. <i>Applied Optics</i> , 2021 , 60, 6978-6988	1.7	4
178	Diel cycle of sea spray aerosol concentration. <i>Nature Communications</i> , 2021 , 12, 5476	17.4	2

177	Deriving the angular response function for backscattering sensors. <i>Applied Optics</i> , 2021 , 60, 8676-8687	1.7	0
176	Monitoring ocean biogeochemistry with autonomous platforms. <i>Nature Reviews Earth & Environment</i> , 2020 , 1, 315-326	30.2	47
175	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
174	Detecting Mesopelagic Organisms Using Biogeochemical-Argo Floats. <i>Geophysical Research Letters</i> , 2020 , 47, e2019GL086088	4.9	10
173	Small phytoplankton dominate western North Atlantic biomass. <i>ISME Journal</i> , 2020 , 14, 1663-1674	11.9	32
172	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
171	Phytoplankton Phenology in the North Atlantic: Insights From Profiling Float Measurements. <i>Frontiers in Marine Science</i> , 2020 , 7,	4.5	9
170	Information content of absorption spectra and implications for ocean color inversion. <i>Applied Optics</i> , 2020 , 59, 3971-3984	1.7	9
169	Chlorophyll absorption and phytoplankton size information inferred from hyperspectral particulate beam attenuation. <i>Applied Optics</i> , 2020 , 59, 6765-6773	1.7	1
168	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
167	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
166	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,	4.5	5
165	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
164	Seasonal modulation of phytoplankton biomass in the Southern Ocean. <i>Nature Communications</i> , 2020 , 11, 5364	17.4	18
163	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	5	4
162	Evaluation of diagnostic pigments to estimate phytoplankton size classes. <i>Limnology and Oceanography: Methods</i> , 2020 , 18, 570-584	2.6	16
161	Airborne microplastic particles detected in the remote marine atmosphere. <i>Communications Earth & Environment</i> , 2020 , 1,	6.1	43
160	A BGC-Argo Guide: Planning, Deployment, Data Handling and Usage. <i>Frontiers in Marine Science</i> , 2019 , 6,	4.5	34

159	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
158	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
157	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
156	Globally Consistent Quantitative Observations of Planktonic Ecosystems. <i>Frontiers in Marine Science</i> , 2019 , 6,	4.5	88
155	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
154	Marine DNA Viral Macro- and Microdiversity from Pole to Pole. <i>Cell</i> , 2019 , 177, 1109-1123.e14	56.2	256
153	Community-Level Responses to Iron Availability in Open Ocean Plankton Ecosystems. <i>Global Biogeochemical Cycles</i> , 2019 , 33, 391-419	5.9	42
152	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
151	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
150	On the Future of Argo: A Global, Full-Depth, Multi-Disciplinary Array. <i>Frontiers in Marine Science</i> , 2019 , 6,	4.5	116
149	Going Beyond Standard Ocean Color Observations: Lidar and Polarimetry. <i>Frontiers in Marine Science</i> , 2019 , 6,	4.5	41
148	Atmospheric Correction of Satellite Ocean-Color Imagery During the PACE Era. <i>Frontiers in Earth Science</i> , 2019 , 7,	3.5	52
147	Modeling Atmosphere-Ocean Radiative Transfer: A PACE Mission Perspective. <i>Frontiers in Earth Science</i> , 2019 , 7,	3.5	20
146	Retrieving Aerosol Characteristics From the PACE Mission, Part 2: Multi-Angle and Polarimetry. <i>Frontiers in Environmental Science</i> , 2019 , 7,	4.8	19
145	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
144	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
143	Retrieving Aerosol Characteristics From the PACE Mission, Part 1: Ocean Color Instrument. <i>Frontiers in Earth Science</i> , 2019 , 7,	3.5	14
142	Southern Ocean Phytoplankton Blooms Observed by Biogeochemical Floats. <i>Journal of Geophysical Research: Oceans</i> , 2019 , 124, 7328-7343	3.3	7

141	Global Trends in Marine Plankton Diversity across Kingdoms of Life. <i>Cell</i> , 2019 , 179, 1084-1097.e21	56.2	108
140	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
139	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
138	Retrieval of Phytoplankton Pigments from Underway Spectrophotometry in the Fram Strait. <i>Remote Sensing</i> , 2019 , 11, 318	5	6
137	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
136	Global satellite-observed daily vertical migrations of ocean animals. <i>Nature</i> , 2019 , 576, 257-261	50.4	38
135	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
134	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
133	Satellite sensor requirements for monitoring essential biodiversity variables of coastal ecosystems 2018 , 28, 749-760		69
132	Toward deeper development of Biogeochemical-Argo floats. <i>Atmospheric and Oceanic Science Letters</i> , 2018 , 11, 287-290	1.4	3
131	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
130	Single-cell genomics of multiple uncultured stramenopiles reveals underestimated functional diversity across oceans. <i>Nature Communications</i> , 2018 , 9, 310	17.4	55
129	A global ocean atlas of eukaryotic genes. <i>Nature Communications</i> , 2018 , 9, 373	17.4	168
128	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
127	Coccolithovirus facilitation of carbon export in the North Atlantic. <i>Nature Microbiology</i> , 2018 , 3, 537-547	26.6	63
126	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
125	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
124	The HydroColor App: Above Water Measurements of Remote Sensing Reflectance and Turbidity Using a Smartphone Camera. <i>Sensors</i> , 2018 , 18,	3.8	46

123	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
122	Harnessing remote sensing to address critical science questions on ocean-atmosphere interactions. <i>Elementa</i> , 2018 , 6,	3.6	11
121	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
120	ProVal: A New Autonomous Profiling Float for High Quality Radiometric Measurements. <i>Frontiers in Marine Science</i> , 2018 , 5,	4.5	19
119	Advantages and Limitations to the Use of Optical Measurements to Study Sediment Properties. <i>Applied Sciences (Switzerland)</i> , 2018 , 8, 2692	2.6	5
118	The open-ocean missing backscattering is in the structural complexity of particles. <i>Nature Communications</i> , 2018 , 9, 5439	17.4	39
117	Radiative Transfer Modeling of Phytoplankton Fluorescence Quenching Processes. <i>Remote Sensing</i> , 2018 , 10, 1309	5	10
116	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
115	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
114	Dispersion/dilution enhances phytoplankton blooms in low-nutrient waters. <i>Nature Communications</i> , 2017 , 8, 14868	17.4	18
113	Annual boom-bust cycles of polar phytoplankton biomass revealed by space-based lidar. <i>Nature Geoscience</i> , 2017 , 10, 118-122	18.3	86
112	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
111	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
110	Viral to metazoan marine plankton nucleotide sequences from the Tara Oceans expedition. <i>Scientific Data</i> , 2017 , 4, 170093	8.2	89
109	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
108	Biogeochemical sensor performance in the SOCCOM profiling float array. <i>Journal of Geophysical Research: Oceans</i> , 2017 , 122, 6416-6436	3.3	120
107	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
106	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

105	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
104	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
103	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
102	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
101	Simplified model of spectral absorption by non-algal particles and dissolved organic materials in aquatic environments. <i>Optics Express</i> , 2017 , 25, 25486-25491	3.3	4
100	Determination of the absorption coefficient of chromophoric dissolved organic matter from underway spectrophotometry. <i>Optics Express</i> , 2017 , 25, A1079-A1095	3.3	8
99	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
98	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
97	The Elongated, the Squat and the Spherical: Selective Pressures for Phytoplankton Shape 2016 , 25-34		16
96	Validation of Ocean Color Remote Sensing Reflectance Using Autonomous Floats. <i>Journal of Atmospheric and Oceanic Technology</i> , 2016 , 33, 2331-2352	2	16
95	Plankton networks driving carbon export in the oligotrophic ocean. <i>Nature</i> , 2016 , 532, 465-470	50.4	392
94	Revaluating ocean warming impacts on global phytoplankton. <i>Nature Climate Change</i> , 2016 , 6, 323-330	21.4	156
93	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
92	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
91	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
90	Regional ocean-colour chlorophyll algorithms for the Red Sea. <i>Remote Sensing of Environment</i> , 2015 , 165, 64-85	13.2	55
89	Spectral attenuation and backscattering as indicators of average particle size. <i>Applied Optics</i> , 2015 , 54, 7264-77	0.2	70
88	Contribution of Raman scattering to polarized radiation field in ocean waters. <i>Optics Express</i> , 2015 , 23, 23582-96	3.3	12

87	Ocean plankton. Determinants of community structure in the global plankton interactome. <i>Science</i> , 2015 , 348, 1262073	33.3	496
86	Ocean plankton. Patterns and ecological drivers of ocean viral communities. <i>Science</i> , 2015 , 348, 1261498	33.3	421
85	Ocean plankton. Structure and function of the global ocean microbiome. <i>Science</i> , 2015 , 348, 1261359	33.3	1261
84	Ocean plankton. Eukaryotic plankton diversity in the sunlit ocean. <i>Science</i> , 2015 , 348, 1261605	33.3	990
83	Ocean plankton. Environmental characteristics of Agulhas rings affect interocean plankton transport. <i>Science</i> , 2015 , 348, 1261447	33.3	100
82	Resurrecting the ecological underpinnings of ocean plankton blooms. <i>Annual Review of Marine Science</i> , 2014 , 6, 167-94	15.4	235
81	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
80	Aerial Imaging of Fluorescent Dye in the Near Shore. <i>Journal of Atmospheric and Oceanic Technology</i> , 2014 , 31, 1410-1421	2	26
79	Significance of scattering by oceanic particles at angles around 120 degree. <i>Optics Express</i> , 2014 , 22, 31329-36	3.3	23
78	Decomposition of in situ particulate absorption spectra. <i>Methods in Oceanography</i> , 2013 , 7, 110-124		46
77	Regional to global assessments of phytoplankton dynamics from the SeaWiFS mission. <i>Remote Sensing of Environment</i> , 2013 , 135, 77-91	13.2	201
76	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
75	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
74	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
73	Optical properties of the Dead Sea. <i>Journal of Geophysical Research: Oceans</i> , 2013 , 118, 1821-1829	3.3	12
72	Generalized ocean color inversion model for retrieving marine inherent optical properties. <i>Applied Optics</i> , 2013 , 52, 2019-37	1.7	263
71	Remote identification of the invasive tunicate <i>Didemnum vexillum</i> using reflectance spectroscopy. <i>Applied Optics</i> , 2013 , 52, 1758-63	1.7	1
70	Influence of Raman scattering on ocean color inversion models. <i>Applied Optics</i> , 2013 , 52, 5552-61	1.7	45

69	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
68	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
67	In situ measurements of phytoplankton fluorescence using low cost electronics. <i>Sensors</i> , 2013 , 13, 7872-88	3.8	58
66	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
65	Optical backscattering is correlated with phytoplankton carbon across the Atlantic Ocean. <i>Geophysical Research Letters</i> , 2013 , 40, 1154-1158	4.9	51
64	Autonomous, high-resolution observations of particle flux in the oligotrophic ocean. <i>Biogeosciences</i> , 2013 , 10, 5517-5531	4.6	26
63	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
62	Rate and apparent quantum yield of photodissolution of sedimentary organic matter. <i>Limnology and Oceanography</i> , 2012 , 57, 1743-1756	4.8	20
61	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
60	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
59	Improved irradiances for use in ocean heating, primary production, and photo-oxidation calculations. <i>Applied Optics</i> , 2012 , 51, 6549-60	1.7	51
58	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
57	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
56	Bio-optical observations of the 2004 Labrador Sea phytoplankton bloom. <i>Journal of Geophysical Research</i> , 2011 , 116,		12
55	A holistic approach to marine eco-systems biology. <i>PLoS Biology</i> , 2011 , 9, e1001177	9.7	265
54	Evaluation of a compact sensor for backscattering and absorption. <i>Applied Optics</i> , 2011 , 50, 3758-72	0.2	1
53	Effects of particle aggregation and disaggregation on their inherent optical properties. <i>Optics Express</i> , 2011 , 19, 7945-59	3.3	47
52	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

51	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	4.6	2
50	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
49	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
48	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
47	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
46	Spectral backscattering properties of marine phytoplankton cultures. <i>Optics Express</i> , 2010 , 18, 15073-9333	3.3	114
45	Coherence of particulate beam attenuation and backscattering coefficients in diverse open ocean environments. <i>Optics Express</i> , 2010 , 18, 15419-25	3.3	59
44	Hyperspectral portable beam transmissometer for the ultraviolet-visible spectrum. <i>Limnology and Oceanography: Methods</i> , 2010 , 8, 527-538	2.6	3
43	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
42	Significant contribution of large particles to optical backscattering in the open ocean. <i>Biogeosciences</i> , 2009 , 6, 947-967	4.6	133
41	Satellite-detected fluorescence reveals global physiology of ocean phytoplankton. <i>Biogeosciences</i> , 2009 , 6, 779-794	4.6	204
40	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
39	Turbulence-plankton interactions: a new cartoon. <i>Marine Ecology</i> , 2009 , 30, 133-150	1.4	54
38	Acceptance angle effects on the beam attenuation in the ocean. <i>Optics Express</i> , 2009 , 17, 1535-50	3.3	88
37	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
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,		121
35	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
34	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

33	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
32	Carbon-based primary productivity modeling with vertically resolved photoacclimation. <i>Global Biogeochemical Cycles</i> , 2008 , 22, n/a-n/a	5.9	401
31	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
30	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
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