

B Greg Mitchell

List of Publications by Citations

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107
papers

7,068
citations

43
h-index

83
g-index

113
ext. papers

8,044
ext. citations

5.1
avg, IF

5.49
L-index

#	Paper	IF	Citations
107	Ocean color chlorophyll algorithms for SeaWiFS. <i>Journal of Geophysical Research</i> , 1998 , 103, 24937-24953		1519
106	Massive phytoplankton blooms under Arctic sea ice. <i>Science</i> , 2012 , 336, 1408	33.3	483
105	Light limitation of phytoplankton biomass and macronutrient utilization in the Southern Ocean. <i>Limnology and Oceanography</i> , 1991 , 36, 1662-1677	4.8	265
104	Are phytoplankton blooms occurring earlier in the Arctic?. <i>Global Change Biology</i> , 2011 , 17, 1733-1739	11.4	218
103	Estimation of particulate organic carbon in the ocean from satellite remote sensing. <i>Science</i> , 1999 , 285, 239-42	33.3	192
102	Reflectance model for quantifying chlorophyll a in the presence of productivity degradation products. <i>Journal of Geophysical Research</i> , 1991 , 96, 20599		189
101	Pilot-scale data provide enhanced estimates of the life cycle energy and emissions profile of algae biofuels produced via hydrothermal liquefaction. <i>Bioresource Technology</i> , 2013 , 148, 163-71	11	187
100	Chlorophyll specific absorption and fluorescence excitation spectra for light-limited phytoplankton. <i>Deep-sea Research Part A, Oceanographic Research Papers</i> , 1988 , 35, 639-663		170
99	A simple, steady state description of phytoplankton growth based on absorption cross section and quantum efficiency ¹ . <i>Limnology and Oceanography</i> , 1983 , 28, 770-776	4.8	165
98	Bio-optical properties of Antarctic Peninsula waters: differentiation from temperate ocean models. <i>Deep-sea Research Part A, Oceanographic Research Papers</i> , 1991 , 38, 1009-1028		157
97	Phytoplankton blooms beneath the sea ice in the Chukchi sea. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2014 , 105, 1-16	2.3	144
96	Towards Automated Annotation of Benthic Survey Images: Variability of Human Experts and Operational Modes of Automation. <i>PLoS ONE</i> , 2015 , 10, e0130312	3.7	140
95	A chlorophyll-dependent semianalytical reflectance model derived from field measurements of absorption and backscattering coefficients within the Southern Ocean. <i>Journal of Geophysical Research</i> , 2001 , 106, 7125-7138		122
94	Photophysiological acclimation of <i>Phaeocystis antarctica</i> Karsten under light limitation. <i>Limnology and Oceanography</i> , 1999 , 44, 247-258	4.8	100
93	Eddies enhance biological production in the Weddell-Scotia Confluence of the Southern Ocean. <i>Geophysical Research Letters</i> , 2007 , 34,	4.9	98
92	Iron limitation across chlorophyll gradients in the southern Drake Passage: Phytoplankton responses to iron addition and photosynthetic indicators of iron stress. <i>Limnology and Oceanography</i> , 2007 , 52, 2540-2554	4.8	98
91	Seasonal and nonseasonal variability of satellite-derived chlorophyll and colored dissolved organic matter concentration in the California Current. <i>Journal of Geophysical Research</i> , 2001 , 106, 2517-2529		96

90	Trends in primary production in the California Current detected with satellite data. <i>Journal of Geophysical Research</i> , 2009 , 114,		95
89	An Ocean-Colour Time Series for Use in Climate Studies: The Experience of the Ocean-Colour Climate Change Initiative (OC-CCI). <i>Sensors</i> , 2019 , 19,	3.8	94
88	2012 ,		93
87	A short-term in situ CO ₂ enrichment experiment on Heron Island (GBR). <i>Scientific Reports</i> , 2012 , 2, 413	4.9	89
86	Trends in the surface chlorophyll of the California Current: Merging data from multiple ocean color satellites. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2012 , 77-80, 89-98	2.3	81
85	Empirical chlorophyll algorithm and preliminary SeaWiFS validation for the California Current. <i>International Journal of Remote Sensing</i> , 1999 , 20, 3423-3429	3.1	73
84	Spatial and temporal statistics of sea surface temperature and chlorophyll fronts in the California Current. <i>Journal of Plankton Research</i> , 2012 , 34, 749-760	2.2	72
83	Developing priority variables (Ecosystem Essential Ocean Variables—EEOVs) for observing dynamics and change in Southern Ocean ecosystems. <i>Journal of Marine Systems</i> , 2016 , 161, 26-41	2.7	72
82	Influence of the 1997-98 El Niño on the surface chlorophyll in the California Current. <i>Geophysical Research Letters</i> , 2000 , 27, 2937-2940	4.9	70
81	Variability in pigment particulate fluorescence and absorption spectra in the northeastern Pacific Ocean. <i>Deep-sea Research Part A, Oceanographic Research Papers</i> , 1988 , 35, 665-689		70
80	UV absorption by mycosporine-like amino acids in <i>Phaeocystis antarctica</i> Karsten induced by photosynthetically available radiation. <i>Marine Biology</i> , 2001 , 138, 217-227	2.5	69
79	Artificial neural networks for modeling the transfer function between marine reflectance and phytoplankton pigment concentration. <i>Journal of Geophysical Research</i> , 2000 , 105, 3483-3495		64
78	Climate effect on food supply to depths greater than 4,000 meters in the northeast Pacific. <i>Limnology and Oceanography</i> , 2006 , 51, 166-176	4.8	62
77	Ocean-color variability in the Gulf of California: scales from days to ENSO. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2004 , 51, 139-146	2.3	60
76	Global correlations between winds and ocean chlorophyll. <i>Journal of Geophysical Research</i> , 2010 , 115,		58
75	Spectral reflectance and absorption of a massive red tide off southern California. <i>Journal of Geophysical Research</i> , 1998 , 103, 21601-21609		57
74	Operational and economic aspects of Spirulina-based biorefinery. <i>Bioresource Technology</i> , 2019 , 292, 121946	11	54
73	Absorption, fluorescence, and quantum yield for growth in nitrogen-limited <i>Dunaliella tertiolecta</i> . <i>Limnology and Oceanography</i> , 1991 , 36, 910-921	4.8	52

72	Effects of sea ice cover on satellite-detected primary production in the Arctic Ocean. <i>Biology Letters</i> , 2016 , 12,	3.6	51
71	Life cycle GHG emissions from microalgal biodiesel--a CA-GREET model. <i>Environmental Science & Technology</i> , 2014 , 48, 6060-8	10.3	51
70	Photoadaptation in marine phytoplankton : changes in spectral absorption and excitation of chlorophyll a fluorescence. <i>Plant Physiology</i> , 1984 , 76, 518-24	6.6	51
69	Photosynthetic maximum quantum yield increases are an essential component of the Southern Ocean phytoplankton response to iron. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 4775-80	11.5	49
68	Major role of microbes in carbon fluxes during Austral winter in the Southern Drake Passage. <i>PLoS ONE</i> , 2009 , 4, e6941	3.7	48
67	Blending of ocean colour algorithms applied to the Southern Ocean. <i>Remote Sensing Letters</i> , 2010 , 1, 119-124	2.3	47
66	EFFECTS OF TEMPERATURE ON GROWTH, LIGHT ABSORPTION, AND QUANTUM YIELD IN DUNALIELLA TERTIOLECTA (CHLOROPHYCEAE)1. <i>Journal of Phycology</i> , 1994 , 30, 833-840	3	46
65	A compilation of global bio-optical in situ data for ocean-colour satellite applications. <i>Earth System Science Data</i> , 2016 , 8, 235-252	10.5	46
64	Comparison of the ocean inherent optical properties obtained from measurements and inverse modeling. <i>Applied Optics</i> , 2001 , 40, 2384-97	1.7	38
63	Ocean Color Reveals Increased Blooms in Various Parts of the World. <i>Eos</i> , 2008 , 89, 170	1.5	35
62	Influence of the El Niño-La Niña cycle on satellite-derived primary production in the California Current. <i>Geophysical Research Letters</i> , 2002 , 29, 27-1-27-4	4.9	35
61	Photosynthesis of Phaeocystis in the Greenland Sea. <i>Limnology and Oceanography</i> , 1994 , 39, 948-953	4.8	35
60	THE PHYCOBILIN SIGNATURES OF CHLOROPLASTS FROM THREE DINOFLAGELLATE SPECIES: A MICROANALYTICAL STUDY OF DINOPHYSIS CAUDATA, D. FORTII, AND D. ACUMINATA (DINOPHYSIALES, DINOPHYCEAE). <i>Journal of Phycology</i> , 1998 , 34, 945-951	3	34
59	The MAREDAT global database of high performance liquid chromatography marine pigment measurements. <i>Earth System Science Data</i> , 2013 , 5, 109-123	10.5	34
58	Analysis of horizontal and vertical processes contributing to natural iron supply in the mixed layer in southern Drake Passage. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2013 , 90, 68-76	2.3	33
57	Light and nutrient control of photosynthesis in natural phytoplankton populations from the Chukchi and Beaufort seas, Arctic Ocean. <i>Limnology and Oceanography</i> , 2013 , 58, 2185-2205	4.8	33
56	The response of Antarctic phytoplankton to ultraviolet radiation: Absorption, photosynthesis, and taxonomic composition. <i>Antarctic Research Series</i> , 1994 , 143-158		33
55	Estimation of the absorption and backscattering coefficients from in-water radiometric measurements. <i>Limnology and Oceanography</i> , 2000 , 45, 628-641	4.8	31

54	Evaluation of Satellite Retrievals of Ocean Chlorophyll-a in the California Current. <i>Remote Sensing</i> , 2014 , 6, 8524-8540	5	30
53	Assessment of the ultraviolet radiation field in ocean waters from space-based measurements and full radiative-transfer calculations. <i>Applied Optics</i> , 2005 , 44, 2863-9	1.7	28
52	Estimating net community production in the Southern Ocean based on atmospheric potential oxygen and satellite ocean color data. <i>Global Biogeochemical Cycles</i> , 2012 , 26, n/a-n/a	5.9	26
51	Seasonal and interannual variability of particulate organic carbon within the Southern Ocean from satellite ocean color observations. <i>Journal of Geophysical Research</i> , 2010 , 115,		25
50	Improving Automated Annotation of Benthic Survey Images Using Wide-band Fluorescence. <i>Scientific Reports</i> , 2016 , 6, 23166	4.9	25
49	Wide field-of-view fluorescence imaging of coral reefs. <i>Scientific Reports</i> , 2015 , 5, 7694	4.9	23
48	Determination of Absorption and Fluorescence Excitation Spectra for Phytoplankton. <i>Lecture Notes on Coastal and Estuarine Studies</i> , 1984 , 157-169		23
47	Microphotometric analysis of individual particle absorption spectra ¹ . <i>Limnology and Oceanography</i> , 1988 , 33, 128-135	4.8	22
46	A synthesis of light absorption properties of the Arctic Ocean: application to semianalytical estimates of dissolved organic carbon concentrations from space. <i>Biogeosciences</i> , 2014 , 11, 3131-3147	4.6	21
45	Validation of ADEOS-II GLI ocean color products using in-situ observations. <i>Journal of Oceanography</i> , 2006 , 62, 373-393	1.9	21
44	Cross-compartment metabolic coupling enables flexible photoprotective mechanisms in the diatom <i>Phaeodactylum tricornutum</i> . <i>New Phytologist</i> , 2019 , 222, 1364-1379	9.8	21
43	A compilation of global bio-optical in situ data for ocean-colour satellite applications [version two]. <i>Earth System Science Data</i> , 2019 , 11, 1037-1068	10.5	20
42	Living coral tissue slows skeletal dissolution related to ocean acidification. <i>Nature Ecology and Evolution</i> , 2019 , 3, 1438-1444	12.3	19
41	Empirical ocean color algorithms for estimating particulate organic carbon in the Southern Ocean. <i>Journal of Geophysical Research</i> , 2010 , 115,		19
40	Meridional zonation of the Barents Sea ecosystem inferred from satellite remote sensing and in situ bio-optical observations. <i>Polar Research</i> , 1991 , 10, 147-162	2	19
39	Winter mesoscale circulation on the shelf slope region of the southern Drake Passage. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2013 , 90, 4-14	2.3	18
38	Coastal zone color scanner retrospective. <i>Journal of Geophysical Research</i> , 1994 , 99, 7291		18
37	Shape from Fluorescence. <i>Lecture Notes in Computer Science</i> , 2012 , 292-306	0.9	18

36	Caribbean massive corals not recovering from repeated thermal stress events during 2005-2013. <i>Ecology and Evolution</i> , 2017 , 7, 1339-1353	2.8	17
35	Optimal multiparameter analysis of source water distributions in the Southern Drake Passage. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2013 , 90, 31-42	2.3	17
34	Sea level anomalies control phytoplankton biomass in the Costa Rica Dome area. <i>Geophysical Research Letters</i> , 2007 , 34,	4.9	17
33	Phytoplankton absorption, photosynthetic parameters, and primary production off Baja California: summer and autumn 1998. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2004 , 51, 799-816	2.3	17
32	Ocean-color radiometry across the Southern Atlantic and Southeastern Pacific: Accuracy and remote sensing implications. <i>Remote Sensing of Environment</i> , 2014 , 149, 13-32	13.2	16
31	When depth is no refuge: cumulative thermal stress increases with depth in Bocas del Toro, Panama. <i>Coral Reefs</i> , 2014 , 33, 193-205	4.2	16
30	Optimized Merger of Ocean Chlorophyll Algorithms of MODIS-Aqua and VIIRS. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2015 , 12, 2282-2285	4.1	16
29	Influence of submicron absorptive aerosol on Sea-viewing Wide Field-of-view Sensor (SeaWiFS)-derived marine reflectance during Aerosol Characterization Experiment (ACE)-Asia. <i>Journal of Geophysical Research</i> , 2003 , 108,		16
28	The optical and biological properties of glacial meltwater in an Antarctic fjord. <i>PLoS ONE</i> , 2019 , 14, e0213107	13.1	15
27	Bioavailable dissolved organic matter and biological hot spots during austral winter in Antarctic waters. <i>Journal of Geophysical Research: Oceans</i> , 2017 , 122, 508-520	3.3	14
26	Multi-satellite time series of inherent optical properties in the California Current. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2015 , 112, 91-106	2.3	13
25	Evaluating the ocean biogeochemical components of Earth system models using atmospheric potential oxygen and ocean color data. <i>Biogeosciences</i> , 2015 , 12, 193-208	4.6	13
24	Biological CO mitigation by microalgae: technological trends, future prospects and challenges. <i>World Journal of Microbiology and Biotechnology</i> , 2019 , 35, 78	4.4	12
23	Identification of water quality and zooplankton characteristics in Daya Bay, China, from 2001 to 2004. <i>Environmental Earth Sciences</i> , 2012 , 66, 655-671	2.9	12
22	Planktonic C:Fe ratios and carrying capacity in the southern Drake Passage. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2013 , 90, 102-111	2.3	11
21	The role of organic ligands in iron cycling and primary productivity in the Antarctic Peninsula: A modeling study. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2013 , 90, 112-133	2.3	11
20	Obtaining absorption spectra from individual macroalgal spores using microphotometry. <i>Hydrobiologia</i> , 1999 , 398/399, 231-239	2.4	10
19	Physical Drivers of Phytoplankton Bloom Initiation in the Southern Ocean's Scotia Sea. <i>Journal of Geophysical Research: Oceans</i> , 2019 , 124, 5811-5826	3.3	9

18	Methods and measurement variance for field estimations of coral colony planar area using underwater photographs and semi-automated image segmentation. <i>Environmental Monitoring and Assessment</i> , 2015 , 187, 496	3.1	8
17	Optimized multi-satellite merger of primary production estimates in the California Current using inherent optical properties. <i>Journal of Marine Systems</i> , 2015 , 147, 94-102	2.7	8
16	Satellite detection of dinoflagellate blooms off California by UV reflectance ratios. <i>Elementa</i> , 2021 , 9,	3.6	7
15	Simultaneous quantum yield measurements of carbon uptake and oxygen evolution in microalgal cultures. <i>PLoS ONE</i> , 2018 , 13, e0199125	3.7	6
14	Controls on the distribution of fluorescent dissolved organic matter during an under-ice algal bloom in the western Arctic Ocean. <i>Global Biogeochemical Cycles</i> , 2017 , 31, 1118-1140	5.9	6
13	Demonstration of a new indicator for studying upwelling in the northern South China Sea**This research was supported by the projects of knowledge innovation program of the Chinese Academy of Sciences (No. KZCX2-YW-Q07-02, No. KSCX2-SW-132 and No. KSCX2-YW-Z-1024), the National Natural Science Foundation of China (41071070) and the National 863 project (No. 2006 CB 41001).	2.2	6
12	Contemporaneous disequilibrium of bio-optical properties in the Southern Ocean. <i>Geophysical Research Letters</i> , 2017 , 44, 2835-2842	4.9	4
11	Modeling Net Growth of <i>Phaeocystis antarctica</i> Based on Physiological and Optical Responses to Light and Temperature Co-limitation. <i>Frontiers in Marine Science</i> , 2018 , 4,	4.5	3
10	A synthesis of light absorption properties of the Pan-Arctic Ocean: application to semi-analytical estimates of dissolved organic carbon concentrations from space		3
9	UV Reflectance of the Ocean from DSCOVR/EPIC: Comparisons with a Theoretical Model and Aura/OMI Observations. <i>Journal of Atmospheric and Oceanic Technology</i> , 2019 , 36, 2087-2099	2	3
8	ADEOS-II/GLI ocean-color atmospheric correction: early phase result 2003 , 5155, 91		2
7	Phytoplankton photosynthetic parameters off Baja California: A tool to estimate primary production with remote sensing data. <i>Ciencias Marinas</i> , 2017 , 43, 157-172	1.7	2
6	Land-based drip-irrigated culture of <i>Ulva compressa</i> : The effect of culture platform design and nutrient concentration on biomass production and protein content. <i>PLoS ONE</i> , 2018 , 13, e0199287	3.7	2
5	Regional Challenges for Development of Satellite Ocean Color Algorithms. <i>COSPAR Colloquia Series</i> , 1997 , 183-190		
4	A model for the assessment of UV penetration into ocean waters from space-based measurements and full radiative transfer calculations 2003 , 5156, 316		
3	Modeling Net Photosynthesis Based on Temperature and Light in Colonial <i>Phaeocystis Antarctica</i> Karsten 1998 , 4105-4108		
2	Obtaining absorption spectra from individual macroalgal spores using microphotometry 1999 , 231-239		
1	Development of a multi-excitation fluorescence (MEF) imaging method to improve the information content of benthic coral reef surveys. <i>Coral Reefs</i> , 2021 , 40, 1831	4.2	

