# B Greg Mitchell

## List of Publications by Year in Descending Order



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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 | Satellite detection of dinoflagellate blooms off California by UV reflectance ratios. *Elementa*, **2021**, 9, | 3.6 | 7 |
| 106 | Development of a multi-excitation fluorescence (MEF) imaging method to improve the information content of benthic coral reef surveys. *Coral Reefs*, **2021**, 40, 1831 | 4.2 | |
| 105 | Living coral tissue slows skeletal dissolution related to ocean acidification. *Nature Ecology and Evolution*, **2019**, 3, 1438-1444 | 12.3 | 19 |
| 104 | Biological CO mitigation by microalgae: technological trends, future prospects and challenges. *World Journal of Microbiology and Biotechnology*, **2019**, 35, 78 | 4.4 | 12 |
| 103 | Physical Drivers of Phytoplankton Bloom Initiation in the Southern Ocean's Scotia Sea. *Journal of Geophysical Research: Oceans*, **2019**, 124, 5811-5826 | 3.3 | 9 |
| 102 | Operational and economic aspects of Spirulina-based biorefinery. *Bioresource Technology*, **2019**, 292, 121946 | 11 | 54 |
| 101 | An Ocean-Colour Time Series for Use in Climate Studies: The Experience of the Ocean-Colour Climate Change Initiative (OC-CCI). *Sensors*, **2019**, 19, | 3.8 | 94 |
| 100 | A compilation of global bio-optical in situ data for ocean-colour satellite applications □ version two. *Earth System Science Data*, **2019**, 11, 1037-1068 | 10.5 | 20 |
| 99 | The optical and biological properties of glacial meltwater in an Antarctic fjord. *PLoS ONE*, **2019**, 14, e0213707 | 3.7 | 15 |
| 98 | UV Reflectance of the Ocean from DSCOVR/EPIC: Comparisons with a Theoretical Model and Aura/OMI Observations. *Journal of Atmospheric and Oceanic Technology*, **2019**, 36, 2087-2099 | 2 | 3 |
| 97 | Cross-compartment metabolic coupling enables flexible photoprotective mechanisms in the diatom Phaeodactylum tricornutum. *New Phytologist*, **2019**, 222, 1364-1379 | 9.8 | 21 |
| 96 | Simultaneous quantum yield measurements of carbon uptake and oxygen evolution in microalgal cultures. *PLoS ONE*, **2018**, 13, e0199125 | 3.7 | 6 |
| 95 | Modeling Net Growth of Phaeocystis antarctica Based on Physiological and Optical Responses to Light and Temperature Co-limitation. *Frontiers in Marine Science*, **2018**, 4, | 4.5 | 3 |
| 94 | Land-based drip-irrigated culture of Ulva compressa: The effect of culture platform design and nutrient concentration on biomass production and protein content. *PLoS ONE*, **2018**, 13, e0199287 | 3.7 | 2 |
| 93 | Caribbean massive corals not recovering from repeated thermal stress events during 2005-2013. *Ecology and Evolution*, **2017**, 7, 1339-1353 | 2.8 | 17 |
| 92 | Bioavailable dissolved organic matter and biological hot spots during austral winter in Antarctic waters. *Journal of Geophysical Research: Oceans*, **2017**, 122, 508-520 | 3.3 | 14 |
| 91 | Contemporaneous disequilibrium of bio-optical properties in the Southern Ocean. *Geophysical Research Letters*, **2017**, 44, 2835-2842 | 4.9 | 4 |

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| 90 | Controls on the distribution of fluorescent dissolved organic matter during an under-ice algal bloom in the western Arctic Ocean. *Global Biogeochemical Cycles*, **2017**, 31, 1118-1140 | 5.9 | 6 |
| 89 | Phytoplankton photosynthetic parameters off Baja California: A tool to estimate primary production with remote sensing data. *Ciencias Marinas*, **2017**, 43, 157-172 | 1.7 | 2 |
| 88 | Effects of sea ice cover on satellite-detected primary production in the Arctic Ocean. *Biology Letters*, **2016**, 12, | 3.6 | 51 |
| 87 | A compilation of global bio-optical in situ data for ocean-colour satellite applications. *Earth System Science Data*, **2016**, 8, 235-252 | 10.5 | 46 |
| 86 | Improving Automated Annotation of Benthic Survey Images Using Wide-band Fluorescence. *Scientific Reports*, **2016**, 6, 23166 | 4.9 | 25 |
| 85 | Developing priority variables (Ecosystem Essential Ocean Variables EOVs) for observing dynamics and change in Southern Ocean ecosystems. *Journal of Marine Systems*, **2016**, 161, 26-41 | 2.7 | 72 |
| 84 | Wide field-of-view fluorescence imaging of coral reefs. *Scientific Reports*, **2015**, 5, 7694 | 4.9 | 23 |
| 83 | Methods and measurement variance for field estimations of coral colony planar area using underwater photographs and semi-automated image segmentation. *Environmental Monitoring and Assessment*, **2015**, 187, 496 | 3.1 | 8 |
| 82 | Multi-satellite time series of inherent optical properties in the California Current. *Deep-Sea Research Part II: Topical Studies in Oceanography*, **2015**, 112, 91-106 | 2.3 | 13 |
| 81 | Evaluating the ocean biogeochemical components of Earth system models using atmospheric potential oxygen and ocean color data. *Biogeosciences*, **2015**, 12, 193-208 | 4.6 | 13 |
| 80 | Optimized multi-satellite merger of primary production estimates in the California Current using inherent optical properties. *Journal of Marine Systems*, **2015**, 147, 94-102 | 2.7 | 8 |
| 79 | Optimized Merger of Ocean Chlorophyll Algorithms of MODIS-Aqua and VIIRS. *IEEE Geoscience and Remote Sensing Letters*, **2015**, 12, 2282-2285 | 4.1 | 16 |
| 78 | Towards Automated Annotation of Benthic Survey Images: Variability of Human Experts and Operational Modes of Automation. *PLoS ONE*, **2015**, 10, e0130312 | 3.7 | 140 |
| 77 | Ocean-color radiometry across the Southern Atlantic and Southeastern Pacific: Accuracy and remote sensing implications. *Remote Sensing of Environment*, **2014**, 149, 13-32 | 13.2 | 16 |
| 76 | Life cycle GHG emissions from microalgal biodiesel--a CA-GREET model. *Environmental Science & Technology*, **2014**, 48, 6060-8 | 10.3 | 51 |
| 75 | When depth is no refuge: cumulative thermal stress increases with depth in Bocas del Toro, Panama. *Coral Reefs*, **2014**, 33, 193-205 | 4.2 | 16 |
| 74 | Phytoplankton blooms beneath the sea ice in the Chukchi sea. *Deep-Sea Research Part II: Topical Studies in Oceanography*, **2014**, 105, 1-16 | 2.3 | 144 |
| 73 | Evaluation of Satellite Retrievals of Ocean Chlorophyll-a in the California Current. *Remote Sensing*, **2014**, 6, 8524-8540 | 5 | 30 |

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| 72 | A synthesis of light absorption properties of the Arctic Ocean: application to semianalytical estimates of dissolved organic carbon concentrations from space. *Biogeosciences*, **2014**, 11, 3131-3147 | 4.6 | 21 |
| 71 | Pilot-scale data provide enhanced estimates of the life cycle energy and emissions profile of algae biofuels produced via hydrothermal liquefaction. *Bioresource Technology*, **2013**, 148, 163-71 | 11 | 187 |
| 70 | Winter mesoscale circulation on the shelf slope region of the southern Drake Passage. *Deep-Sea Research Part II: Topical Studies in Oceanography*, **2013**, 90, 4-14 | 2.3 | 18 |
| 69 | Planktonic C:Fe ratios and carrying capacity in the southern Drake Passage. *Deep-Sea Research Part II: Topical Studies in Oceanography*, **2013**, 90, 102-111 | 2.3 | 11 |
| 68 | The role of organic ligands in iron cycling and primary productivity in the Antarctic Peninsula: A modeling study. *Deep-Sea Research Part II: Topical Studies in Oceanography*, **2013**, 90, 112-133 | 2.3 | 11 |
| 67 | Analysis of horizontal and vertical processes contributing to natural iron supply in the mixed layer in southern Drake Passage. *Deep-Sea Research Part II: Topical Studies in Oceanography*, **2013**, 90, 68-76 | 2.3 | 33 |
| 66 | Optimal multiparameter analysis of source water distributions in the Southern Drake Passage. *Deep-Sea Research Part II: Topical Studies in Oceanography*, **2013**, 90, 31-42 | 2.3 | 17 |
| 65 | Light and nutrient control of photosynthesis in natural phytoplankton populations from the Chukchi and Beaufort seas, Arctic Ocean. *Limnology and Oceanography*, **2013**, 58, 2185-2205 | 4.8 | 33 |
| 64 | The MAREDAT global database of high performance liquid chromatography marine pigment measurements. *Earth System Science Data*, **2013**, 5, 109-123 | 10.5 | 34 |
| 63 | Spatial and temporal statistics of sea surface temperature and chlorophyll fronts in the California Current. *Journal of Plankton Research*, **2012**, 34, 749-760 | 2.2 | 72 |
| 62 | Estimating net community production in the Southern Ocean based on atmospheric potential oxygen and satellite ocean color data. *Global Biogeochemical Cycles*, **2012**, 26, n/a-n/a | 5.9 | 26 |
| 61 | Trends in the surface chlorophyll of the California Current: Merging data from multiple ocean color satellites. *Deep-Sea Research Part II: Topical Studies in Oceanography*, **2012**, 77-80, 89-98 | 2.3 | 81 |
| 60 | **2012**, | | 93 |
| 59 | Massive phytoplankton blooms under Arctic sea ice. *Science*, **2012**, 336, 1408 | 33.3 | 483 |
| 58 | Identification of water quality and zooplankton characteristics in Daya Bay, China, from 2001 to 2004. *Environmental Earth Sciences*, **2012**, 66, 655-671 | 2.9 | 12 |
| 57 | A short-term in situ CO enrichment experiment on Heron Island (GBR). *Scientific Reports*, **2012**, 2, 413 | 4.9 | 89 |
| 56 | Shape from Fluorescence. *Lecture Notes in Computer Science*, **2012**, 292-306 | 0.9 | 18 |
| 55 | 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 (41076070) and the National 908 project (No. 908-02-04-04).. *Oceanologia*, **2011**, 53, 605-622 | 2.2 | 6 |

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| 54 | Are phytoplankton blooms occurring earlier in the Arctic?. *Global Change Biology*, **2011**, 17, 1733-1739 | 11.4 | 218 |
| 53 | Blending of ocean colour algorithms applied to the Southern Ocean. *Remote Sensing Letters*, **2010**, 1, 119-124 | 2.3 | 47 |
| 52 | Seasonal and interannual variability of particulate organic carbon within the Southern Ocean from satellite ocean color observations. *Journal of Geophysical Research*, **2010**, 115, | | 25 |
| 51 | Empirical ocean color algorithms for estimating particulate organic carbon in the Southern Ocean. *Journal of Geophysical Research*, **2010**, 115, | | 19 |
| 50 | Global correlations between winds and ocean chlorophyll. *Journal of Geophysical Research*, **2010**, 115, | | 58 |
| 49 | Trends in primary production in the California Current detected with satellite data. *Journal of Geophysical Research*, **2009**, 114, | | 95 |
| 48 | Major role of microbes in carbon fluxes during Austral winter in the Southern Drake Passage. *PLoS ONE*, **2009**, 4, e6941 | 3.7 | 48 |
| 47 | Ocean Color Reveals Increased Blooms in Various Parts of the World. *Eos*, **2008**, 89, 170 | 1.5 | 35 |
| 46 | Photosynthetic maximum quantum yield increases are an essential component of the Southern Ocean phytoplankton response to iron. *Proceedings of the National Academy of Sciences of the United States of America*, **2008**, 105, 4775-80 | 11.5 | 49 |
| 45 | Eddies enhance biological production in the Weddell-Scotia Confluence of the Southern Ocean. *Geophysical Research Letters*, **2007**, 34, | 4.9 | 98 |
| 44 | Sea level anomalies control phytoplankton biomass in the Costa Rica Dome area. *Geophysical Research Letters*, **2007**, 34, | 4.9 | 17 |
| 43 | Iron limitation across chlorophyll gradients in the southern Drake Passage: Phytoplankton responses to iron addition and photosynthetic indicators of iron stress. *Limnology and Oceanography*, **2007**, 52, 2540-2554 | 4.8 | 98 |
| 42 | Climate effect on food supply to depths greater than 4,000 meters in the northeast Pacific. *Limnology and Oceanography*, **2006**, 51, 166-176 | 4.8 | 62 |
| 41 | Validation of ADEOS-II GLI ocean color products using in-situ observations. *Journal of Oceanography* , **2006**, 62, 373-393 | 1.9 | 21 |
| 40 | Assessment of the ultraviolet radiation field in ocean waters from space-based measurements and full radiative-transfer calculations. *Applied Optics*, **2005**, 44, 2863-9 | 1.7 | 28 |
| 39 | Ocean-color variability in the Gulf of California: scales from days to ENSO. *Deep-Sea Research Part II: Topical Studies in Oceanography*, **2004**, 51, 139-146 | 2.3 | 60 |
| 38 | Phytoplankton absorption, photosynthetic parameters, and primary production off Baja California: summer and autumn 1998. *Deep-Sea Research Part II: Topical Studies in Oceanography*, **2004**, 51, 799-816 | 2.3 | 17 |
| 37 | ADEOS-II/GLI ocean-color atmospheric correction: early phase result **2003**, 5155, 91 | | 2 |

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| 36 | A model for the assessment of UV penetration into ocean waters from space-based measurements and full radiative transfer calculations **2003**, 5156, 316 | | |
| 35 | Influence of submicron absorptive aerosol on Sea-viewing Wide Field-of-view Sensor (SeaWiFS)-derived marine reflectance during Aerosol Characterization Experiment (ACE)-Asia. *Journal of Geophysical Research*, **2003**, 108, | | 16 |
| 34 | Influence of the El Niño-La Niña cycle on satellite-derived primary production in the California Current. *Geophysical Research Letters*, **2002**, 29, 27-1-27-4 | 4.9 | 35 |
| 33 | UV absorption by mycosporine-like amino acids in Phaeocystis antarctica Karsten induced by photosynthetically available radiation. *Marine Biology*, **2001**, 138, 217-227 | 2.5 | 69 |
| 32 | Seasonal and nonseasonal variability of satellite-derived chlorophyll and colored dissolved organic matter concentration in the California Current. *Journal of Geophysical Research*, **2001**, 106, 2517-2529 | | 96 |
| 31 | A chlorophyll-dependent semianalytical reflectance model derived from field measurements of absorption and backscattering coefficients within the Southern Ocean. *Journal of Geophysical Research*, **2001**, 106, 7125-7138 | | 122 |
| 30 | Comparison of the ocean inherent optical properties obtained from measurements and inverse modeling. *Applied Optics*, **2001**, 40, 2384-97 | 1.7 | 38 |
| 29 | Estimation of the absorption and backscattering coefficients from in?water radiometric measurements. *Limnology and Oceanography*, **2000**, 45, 628-641 | 4.8 | 31 |
| 28 | Artificial neural networks for modeling the transfer function between marine reflectance and phytoplankton pigment concentration. *Journal of Geophysical Research*, **2000**, 105, 3483-3495 | | 64 |
| 27 | Influence of the 1997?98 El Niño on the surface chlorophyll in the California Current. *Geophysical Research Letters*, **2000**, 27, 2937-2940 | 4.9 | 70 |
| 26 | Photophysiological acclimation of Phaeocystis antarctica Karsten under light limitation. *Limnology and Oceanography*, **1999**, 44, 247-258 | 4.8 | 100 |
| 25 | Empirical chlorophyll algorithm and preliminary SeaWiFS validation for the California Current. *International Journal of Remote Sensing*, **1999**, 20, 3423-3429 | 3.1 | 73 |
| 24 | Obtaining absorption spectra from individual macroalgal spores using microphotometry. *Hydrobiologia*, **1999**, 398/399, 231-239 | 2.4 | 10 |
| 23 | Estimation of particulate organic carbon in the ocean from satellite remote sensing. *Science*, **1999**, 285, 239-42 | 33.3 | 192 |
| 22 | Obtaining absorption spectra from individual macroalgal spores using microphotometry **1999**, 231-239 | | |
| 21 | THE PHYCOBILIN SIGNATURES OF CHLOROPLASTS FROM THREE DINOFLAGELLATE SPECIES: A MICROANALYTICAL STUDY OF DINOPHYSIS CAUDATA, D. FORTII, AND D. ACUMINATA (DINOPHYSIALES, DINOPHYCEAE). *Journal of Phycology*, **1998**, 34, 945-951 | 3 | 34 |
| 20 | Spectral reflectance and absorption of a massive red tide off southern California. *Journal of Geophysical Research*, **1998**, 103, 21601-21609 | | 57 |
| 19 | Ocean color chlorophyll algorithms for SeaWiFS. *Journal of Geophysical Research*, **1998**, 103, 24937-24953 | | 1519 |

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| 18 | Modeling Net Photosynthesis Based on Temperature and Light in Colonial Phaeocystis Antarctica Karsten **1998**, 4105-4108 | | |
| 17 | Regional Challenges for Development of Satellite Ocean Color Algorithms. *COSPAR Colloquia Series* , **1997**, 183-190 | | |
| 16 | EFFECTS OF TEMPERATURE ON GROWTH, LIGHT ABSORPTION, AND QUANTUM YIELD IN DUNALIELLA TERTIOLECTA (CHLOROPHYCEAE)1. *Journal of Phycology*, **1994**, 30, 833-840 | 3 | 46 |
| 15 | The response of Antarctic phytoplankton to ultraviolet radiation: Absorption, photosynthesis, and taxonomic composition. *Antarctic Research Series*, **1994**, 143-158 | | 33 |
| 14 | Coastal zone color scanner retrospective. *Journal of Geophysical Research*, **1994**, 99, 7291 | | 18 |
| 13 | Photosynthesis of Phaeocystis in the Greenland Sea. *Limnology and Oceanography*, **1994**, 39, 948-953 | 4.8 | 35 |
| 12 | Absorption, fluorescence, and quantum yield for growth in nitrogen-limited Dunaliella tertiolecta. *Limnology and Oceanography*, **1991**, 36, 910-921 | 4.8 | 52 |
| 11 | Light limitation of phytoplankton biomass and macronutrient utilization in the Southern Ocean. *Limnology and Oceanography*, **1991**, 36, 1662-1677 | 4.8 | 265 |
| 10 | Meridional zonation of the Barents Sea ecosystem inferred from satellite remote sensing and in situ bio-optical observations. *Polar Research*, **1991**, 10, 147-162 | 2 | 19 |
| 9 | Bio-optical properties of Antarctic Peninsula waters: differentiation from temperate ocean models. *Deep-sea Research Part A, Oceanographic Research Papers*, **1991**, 38, 1009-1028 | | 157 |
| 8 | Reflectance model for quantifying chlorophyll a in the presence of productivity degradation products. *Journal of Geophysical Research*, **1991**, 96, 20599 | | 189 |
| 7 | Chlorophyll □specific absorption and fluorescence excitation spectra for light-limited phytoplankton. *Deep-sea Research Part A, Oceanographic Research Papers*, **1988**, 35, 639-663 | | 170 |
| 6 | Variability in pigment particulate fluorescence and absorption spectra in the northeastern Pacific Ocean. *Deep-sea Research Part A, Oceanographic Research Papers*, **1988**, 35, 665-689 | | 70 |
| 5 | Microphotometric analysis of individual particle absorption spectra1. *Limnology and Oceanography*, **1988**, 33, 128-135 | 4.8 | 22 |
| 4 | Photoadaptation in marine phytoplankton : changes in spectral absorption and excitation of chlorophyll a fluorescence. *Plant Physiology*, **1984**, 76, 518-24 | 6.6 | 51 |
| 3 | Determination of Absorption and Fluorescence Excitation Spectra for Phytoplankton. *Lecture Notes on Coastal and Estuarine Studies*, **1984**, 157-169 | | 23 |
| 2 | A simple, steady state description of phytoplankton growth based on absorption cross section and quantum efficiency1. *Limnology and Oceanography*, **1983**, 28, 770-776 | 4.8 | 165 |
| 1 | A synthesis of light absorption properties of the Pan-Arctic Ocean: application to semi-analytical estimates of dissolved organic carbon concentrations from space | | 3 |