Colleen B Mouw

List of Publications by Year
in descending order

41 papers	1,471 citations	394390 19 h-index	330122 37 g-index
51 all docs	51 docs citations	51 times ranked	2184 citing authors

#	Article	IF	Citations
1	Aquatic color radiometry remote sensing of coastal and inland waters: Challenges and recommendations for future satellite missions. Remote Sensing of Environment, 2015, 160, 15-30.	11.0	254
2	Obtaining Phytoplankton Diversity from Ocean Color: A Scientific Roadmap for Future Development. Frontiers in Marine Science, 2017, 4, .	2.5	133
3	Capturing optically important constituents and properties in a marine biogeochemical and ecosystem model. Biogeosciences, 2015, 12, 4447-4481.	3.3	129
4	Satellite sensor requirements for monitoring essential biodiversity variables of coastal ecosystems. Ecological Applications, 2018, 28, 749-760.	3.8	116
5	A Consumer's Guide to Satellite Remote Sensing of Multiple Phytoplankton Groups in the Global Ocean. Frontiers in Marine Science, 2017, 4, .	2.5	115
6	Optical determination of phytoplankton size composition from global SeaWiFS imagery. Journal of Geophysical Research, 2010, 115, .	3.3	73
7	Phytoplankton size impact on export flux in the global ocean. Global Biogeochemical Cycles, 2016, 30, 1542-1562.	4.9	62
8	Phenology and time series trends of the dominant seasonal phytoplankton bloom across global scales. Global Ecology and Biogeography, 2018, 27, 551-569.	5.8	53
9	Primary production calculations in the Mid-Atlantic Bight, including effects of phytoplankton community size structure. Limnology and Oceanography, 2005, 50, 1232-1243.	3.1	50
10	Inter-comparison of phytoplankton functional type phenology metrics derived from ocean color algorithms and Earth System Models. Remote Sensing of Environment, 2017, 190, 162-177.	11.0	45
11	Bio-optical Properties of Cyanobacteria Blooms in Western Lake Erie. Frontiers in Marine Science, 2017, 4, .	2.5	43
12	Global ocean particulate organic carbon flux merged with satellite parameters. Earth System Science Data, 2016, 8, 531-541.	9.9	41
13	Global evaluation of particulate organic carbon flux parameterizations and implications for atmospheric pCO₂. Global Biogeochemical Cycles, 2017, 31, 1192-1215.	4.9	29
14	Evaluation and optimization of bioâ€optical inversion algorithms for remote sensing of Lake Superior's optical properties. Journal of Geophysical Research: Oceans, 2013, 118, 1696-1714.	2.6	28
15	Meeting Mentoring Needs in Physical Oceanography: An Evaluation of the Impact of MPOWIR. Oceanography, 2018, 31, 171-179.	1.0	26
16	Light absorption properties of southeastern Bering Sea waters: Analysis, parameterization and implications for remote sensing. Remote Sensing of Environment, 2013, 134, 120-134.	11.0	25
17	Multi-Spectral Remote Sensing of Phytoplankton Pigment Absorption Properties in Cyanobacteria Bloom Waters: A Regional Example in the Western Basin of Lake Erie. Remote Sensing, 2017, 9, 1309.	4.0	25
18	Absorption and fluorescence properties of chromophoric dissolved organic matter of the eastern Bering Sea in the summer with special reference to the influence of a cold pool. Biogeosciences, 2014, 11, 3225-3244.	3.3	24

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19	Impact of phytoplankton community size on a linked global ocean optical and ecosystem model. Journal of Marine Systems, 2012, 89, 61-75.	2.1	22
20	Characterizing CDOM Spectral Variability Across Diverse Regions and Spectral Ranges. Global Biogeochemical Cycles, 2018, 32, 57-77.	4.9	22
21	Remote sensing of physical cycles in Lake Superior using a spatio-temporal analysis of optical water typologies. Remote Sensing of Environment, 2015, 171, 149-161.	11.0	19
22	A Satellite Assessment of Environmental Controls of Phytoplankton Community Size Structure. Global Biogeochemical Cycles, 2019, 33, 540-558.	4.9	15
23	Concentrations of Multiple Phytoplankton Pigments in the Global Oceans Obtained from Satellite Ocean Color Measurements with MERIS. Applied Sciences (Switzerland), 2018, 8, 2678.	2.5	13
24	A global compilation of in situ aquatic high spectral resolution inherent and apparent optical property data for remote sensing applications. Earth System Science Data, 2020, 12, 1123-1139.	9.9	12
25	A modeling study of seasonal variations of sea ice and plankton in the Bering and Chukchi Seas during 2007â€“2008. Journal of Geophysical Research: Oceans, 2013, 118, 1520-1533.	2.6	11
26	Quantification of Rotavirus Diarrheal Risk Due to Hydroclimatic Extremes Over South Asia: Prospects of Satelliteâ€Based Observations in Detecting Outbreaks. GeoHealth, 2018, 2, 70-86.	4.0	11
27	Multi-Instrument Assessment of Phytoplankton Abundance and Cell Sizes in Mono-Specific Laboratory Cultures and Whole Plankton Community Composition in the North Atlantic. Frontiers in Marine Science, 2020, 7, .	2.5	11
28	Evidence of Environmental Changes Caused by Chinese Island-Building. Scientific Reports, 2019, 9, 5295.	3.3	10
29	Deriving inherent optical properties from decomposition of hyperspectral non-water absorption. Remote Sensing of Environment, 2019, 225, 193-206.	11.0	9
30	Optimization and assessment of phytoplankton size class algorithms for ocean color data on the Northeast U.S. continental shelf. Remote Sensing of Environment, 2021, 267, 112729.	11.0	9
31	The Impact of MPOWIR: A Decade of Investing in Mentoring Women in Physical Oceanography. Oceanography, 2014, 27, 39-48.	1.0	6
32	Open Ocean Particle Flux Variability From Surface to Seafloor. Geophysical Research Letters, 2021, 48, e2021GL092895.	4.0	6
33	Length, width, shape regularity, and chain structure: time series analysis of phytoplankton morphology from imagery. Limnology and Oceanography, 2022, 67, 1850-1864.	3.1	6
34	Expanding understanding of optical variability in Lake Superior with a 4-year dataset. Earth System Science Data, 2017, 9, 497-509.	9.9	5
35	Coastal Observations from a New Vantage Point. Eos, 2016, 97, .	0.1	4
36	A modeling study of seasonal variations of sea ice and plankton in the Bering and Chukchi Seas during 2007-2008. Journal of Geophysical Research: Oceans, 2013, , n/a-n/a.	2.6	2

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37	Inland and coastal waters. Eos, 2012, 93, 375-375.	0.1	1
38	Applications of satellite remote sensing technology to the analysis of phytoplankton community structure on large scales. , 2022, , 217-244.		1
39	Modification of SeaDAS SWIR atmospheric correction scheme for accurate retrieval of NIR remote sensing reflectance in the river delta regions of the world. , 2010, , .		0
40	The Pattullo Conference: Building Community Through Mentoring. Oceanography, 2009, 22, 226-227.	1.0	0
41	Interpreting Fin Whale (Balaenoptera physalus) Call Behavior in the Context of Environmental Conditions. Aquatic Mammals, 2019, 45, 691-705.	0.7	0