

# Brian B Barnes

## List of Publications by Year in descending order

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Version: 2024-02-01

46  
papers

1,915  
citations

236925

25  
h-index

254184

43  
g-index

46  
all docs

46  
docs citations

46  
times ranked

2163  
citing authors

#	ARTICLE	IF	CITATIONS
1	The great Atlantic <i>Sargassum</i> belt. <i>Science</i> , 2019, 365, 83-87.	12.6	353
2	Severe 2010 Cold-Water Event Caused Unprecedented Mortality to Corals of the Florida Reef Tract and Reversed Previous Survivorship Patterns. <i>PLoS ONE</i> , 2011, 6, e23047.	2.5	184
3	A machine learning approach to estimate surface ocean pCO <sub>2</sub> from satellite measurements. <i>Remote Sensing of Environment</i> , 2019, 228, 203-226.	11.0	79
4	MODIS-derived spatiotemporal water clarity patterns in optically shallow Florida Keys waters: A new approach to remove bottom contamination. <i>Remote Sensing of Environment</i> , 2013, 134, 377-391.	11.0	64
5	Validation of VIIRS and MODIS reflectance data in coastal and oceanic waters: An assessment of methods. <i>Remote Sensing of Environment</i> , 2019, 220, 110-123.	11.0	63
6	Assessment of satellite-derived diffuse attenuation coefficients and euphotic depths in south Florida coastal waters. <i>Remote Sensing of Environment</i> , 2013, 131, 38-50.	11.0	62
7	An EOF-Based Algorithm to Estimate Chlorophyll a Concentrations in Taihu Lake from MODIS Land-Band Measurements: Implications for Near Real-Time Applications and Forecasting Models. <i>Remote Sensing</i> , 2014, 6, 10694-10715.	4.0	59
8	A framework for identifying and characterising coral reef "oases" against a backdrop of degradation. <i>Journal of Applied Ecology</i> , 2018, 55, 2865-2875.	4.0	58
9	<em>Sargassum</em> Watch Warns of Incoming Seaweed. <i>Eos</i> , 2016, 97, .	0.1	58
10	In search of floating algae and other organisms in global oceans and lakes. <i>Remote Sensing of Environment</i> , 2020, 239, 111659.	11.0	52
11	Use of Landsat data to track historical water quality changes in Florida Keys marine environments. <i>Remote Sensing of Environment</i> , 2014, 140, 485-496.	11.0	51
12	Extensive coral mortality and critical habitat loss following dredging and their association with remotely-sensed sediment plumes. <i>Marine Pollution Bulletin</i> , 2019, 145, 185-199.	5.0	51
13	Improving ocean color data coverage through machine learning. <i>Remote Sensing of Environment</i> , 2019, 222, 286-302.	11.0	50
14	Cross-Sensor Continuity of Satellite-Derived Water Clarity in the Gulf of Mexico: Insights Into Temporal Aliasing and Implications for Long-Term Water Clarity Assessment. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2015, 53, 1761-1772.	6.3	45
15	A Harmful Algal Bloom of <i>Karenia brevis</i> in the Northeastern Gulf of Mexico as Revealed by MODIS and VIIRS: A Comparison. <i>Sensors</i> , 2015, 15, 2873-2887.	3.8	45
16	Sediment plumes induced by the Port of Miami dredging: Analysis and interpretation using Landsat and MODIS data. <i>Remote Sensing of Environment</i> , 2015, 170, 328-339.	11.0	41
17	Influence of a red band-based water classification approach on chlorophyll algorithms for optically complex estuaries. <i>Remote Sensing of Environment</i> , 2014, 155, 289-302.	11.0	39
18	Dependence of satellite ocean color data products on viewing angles: A comparison between SeaWiFS, MODIS, and VIIRS. <i>Remote Sensing of Environment</i> , 2016, 175, 120-129.	11.0	35

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19	Satellite-based virtual buoy system to monitor coastal water quality. <i>Optical Engineering</i> , 2013, 53, 051402.	1.0	34
20	Estimation of diffuse attenuation of ultraviolet light in optically shallow Florida Keys waters from MODIS measurements. <i>Remote Sensing of Environment</i> , 2014, 140, 519-532.	11.0	33
21	Multi-band spectral matching inversion algorithm to derive water column properties in optically shallow waters: An optimization of parameterization. <i>Remote Sensing of Environment</i> , 2018, 204, 424-438.	11.0	31
22	Recovering low quality MODIS-Terra data over highly turbid waters through noise reduction and regional vicarious calibration adjustment: A case study in Taihu Lake. <i>Remote Sensing of Environment</i> , 2017, 197, 72-84.	11.0	30
23	Oyster reef community interactions: The effect of resident fauna on oyster ( <i>Crassostrea</i> spp.) larval recruitment. <i>Journal of Experimental Marine Biology and Ecology</i> , 2010, 391, 169-177.	1.5	29
24	A Hybrid Cloud Detection Algorithm to Improve MODIS Sea Surface Temperature Data Quality and Coverage Over the Eastern Gulf of Mexico. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2013, 51, 3273-3285.	6.3	29
25	Remote detection of cyanobacteria blooms in an optically shallow subtropical lagoonal estuary using MODIS data. <i>Remote Sensing of Environment</i> , 2019, 231, 111227.	11.0	29
26	Prediction of coral bleaching in the Florida Keys using remotely sensed data. <i>Coral Reefs</i> , 2015, 34, 491-503.	2.2	26
27	Spectral characteristics of sea snot reflectance observed from satellites: Implications for remote sensing of marine debris. <i>Remote Sensing of Environment</i> , 2022, 269, 112842.	11.0	26
28	Developing a Smart Semantic Web With Linked Data and Models for Near-Real-Time Monitoring of Red Tides in the Eastern Gulf of Mexico. <i>IEEE Systems Journal</i> , 2016, 10, 1282-1290.	4.6	24
29	On the Interplay Between Ocean Color Data Quality and Data Quantity: Impacts of Quality Control Flags. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2020, 17, 745-749.	3.1	24
30	Disturbances drive changes in coral community assemblages and coral calcification capacity. <i>Ecosphere</i> , 2020, 11, e03066.	2.2	23
31	Comparison of two atmospheric correction approaches applied to MODIS measurements over North American waters. <i>Remote Sensing of Environment</i> , 2018, 216, 442-455.	11.0	21
32	Performance of POLYMER Atmospheric Correction of Ocean Color Imagery in the Presence of Absorbing Aerosols. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2019, 57, 6666-6674.	6.3	21
33	Vertical migration of <i>Karenia brevis</i> in the northeastern Gulf of Mexico observed from glider measurements. <i>Harmful Algae</i> , 2016, 58, 59-65.	4.8	20
34	Cloud and Sun glint statistics derived from GOES and MODIS observations over the Intra-Americas Sea for GEOCAPE mission planning. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 1725-1745.	3.3	19
35	Benthic classification and IOP retrievals in shallow water environments using MERIS imagery. <i>Remote Sensing of Environment</i> , 2020, 249, 112015.	11.0	19
36	An Improved High-Resolution SST Climatology to Assess Cold Water Events off Florida. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2011, 8, 769-773.	3.1	17

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37	Cross-calibration of MODIS and VIIRS long near infrared bands for ocean color science and applications. <i>Remote Sensing of Environment</i> , 2021, 260, 112439.	11.0	15
38	VIIRS captures phytoplankton vertical migration in the NE Gulf of Mexico. <i>Harmful Algae</i> , 2017, 66, 40-46.	4.8	14
39	The development of a non-linear autoregressive model with exogenous input (NARX) to model climate-water clarity relationships: reconstructing a historical water clarity index for the coastal waters of the southeastern USA. <i>Theoretical and Applied Climatology</i> , 2017, 130, 557-569.	2.8	13
40	QWIP: A Quantitative Metric for Quality Control of Aquatic Reflectance Spectral Shape Using the Apparent Visible Wavelength. <i>Frontiers in Remote Sensing</i> , 2022, 3, .	3.5	9
41	Monitoring <i>Sargassum</i> Inundation on Beaches and Nearshore Waters Using PlanetScope/Dove Observations. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2022, 19, 1-5.	3.1	5
42	Using machine learning to model and predict water clarity in the Great Lakes. <i>Journal of Great Lakes Research</i> , 2020, 46, 1501-1510.	1.9	4
43	Estimating estuarine primary production using satellite data and machine learning. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2022, 110, 102821.	1.9	4
44	Linking Weather Patterns, Water Quality And Invasive Mussel Distributions In The Development And Application Of A Water Clarity Index For The Great Lakes. , 2018, , .		3
45	Sensitivity of Satellite Ocean Color Data to System Vicarious Calibration of the Long Near Infrared Band. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2021, 59, 2562-2578.	6.3	3
46	Vicarious Calibration of the Long Near Infrared Band: Cross-Sensor Differences in Sensitivity. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2022, 60, 1-9.	6.3	1