Christopher W Brown

List of Publications by Year
in descending order

50 papers	3,633 citations	186265 28 h-index	223800 46 g-index
50 all docs	50 docs citations	50 times ranked	4174 citing authors

#	Article	IF	Citations
1	Coccolithophorid blooms in the global ocean. Journal of Geophysical Research, 1994, 99, 7467.	3.3	415
2	A model system approach to biological climate forcing. The example of Emiliania huxleyi. Global and Planetary Change, 1993, 8, 27-46.	3.5	302
3	Environmental signatures associated with cholera epidemics. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 17676-17681.	7.1	255
4	Representing key phytoplankton functional groups in ocean carbon cycle models: Coccolithophorids. Global Biogeochemical Cycles, 2002, 16, 47-1-47-20.	4.9	234
5	Effects of increased pCO2 and temperature on the North Atlantic spring bloom. I. The phytoplankton community and biogeochemical response. Marine Ecology - Progress Series, 2009, 388, 13-25.	1.9	227
6	Pelagic functional group modeling: Progress, challenges and prospects. Deep-Sea Research Part II: Topical Studies in Oceanography, 2006, 53, 459-512.	1.4	200
7	Modeling of HABs and eutrophication: Status, advances, challenges. Journal of Marine Systems, 2010, 83, 262-275.	2.1	171
8	Light backscattering properties of marine phytoplankton: relationships to cell size, chemical composition and taxonomy. Journal of Plankton Research, 2004, 26, 191-212.	1.8	162
9	Detecting Trichodesmium blooms in SeaWiFS imagery. Deep-Sea Research Part II: Topical Studies in Oceanography, 2001, 49, 107-121.	1.4	148
10	The effect of primary productivity and seasonality on the distribution of deep-sea benthic foraminifera in the North Atlantic. Deep-Sea Research Part I: Oceanographic Research Papers, 2006, 53, 28-47.	1.4	116
11	Poleward expansion of the coccolithophore Emiliania huxleyi. Journal of Plankton Research, 2014, 36, 316-325.	1.8	112
12	Impact of chromophoric dissolved organic matter on UV inhibition of primary productivity in the sea. Marine Ecology - Progress Series, 1996, 140, 207-216.	1.9	109
13	Predicting the distribution of the scyphomedusa Chrysaora quinquecirrha in Chesapeake Bay. Marine Ecology - Progress Series, 2007, 329, 99-113.	1.9	88
14	Predicting potentially toxigenic Pseudo-nitzschia blooms in the Chesapeake Bay. Journal of Marine Systems, 2010, 83, 127-140.	2.1	81
15	Estimating oceanic chlorophyll concentrations with neural networks. International Journal of Remote Sensing, 1999, 20, 189-194.	2.9	79
16	Climate Forcing and Salinity Variability in Chesapeake Bay, USA. Estuaries and Coasts, 2012, 35, 237-261.	2.2	67
17	Advancing Marine Biogeochemical and Ecosystem Reanalyses and Forecasts as Tools for Monitoring and Managing Ecosystem Health. Frontiers in Marine Science, 2019, 6, .	2.5	62
18	Ecological forecasting in Chesapeake Bay: Using a mechanisticâ€"empirical modeling approach. Journal of Marine Systems, 2013, 125, 113-125.	2.1	59

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19	Distribution pattern of coccolithophorid blooms in the western North Atlantic Ocean. Continental Shelf Research, 1994, 14, 175-197.	1.8	56
20	Analysis of satellite imagery forEmiliania huxleyiblooms in the Bering Sea before 1997. Geophysical Research Letters, 2003, 30, .	4.0	56
21	Establishing a global climatology of marine phytoplankton phenological characteristics. Journal of Geophysical Research, 2012, 117, .	3.3	55
22	Remote sensing of coccolithophore blooms in the Western South atlantic ocean. Remote Sensing of Environment, 1997, 60, 83-91.	11.0	54
23	Predicting the Distribution of Vibrio spp. in the Chesapeake Bay: A Vibrio cholerae Case Study. EcoHealth, 2009, 6, 378-389.	2.0	51
24	Distribution of calcifying and silicifying phytoplankton in relation to environmental and biogeochemical parameters during the late stages of the 2005 North East Atlantic Spring Bloom. Biogeosciences, 2009, 6, 2155-2179.	3.3	50
25	Coccolithophore surface distributions in the North Atlantic and their modulation of the air-sea flux of CO₂ from 10 years of satellite Earth observation data. Biogeosciences, 2013, 10, 2699-2709.	3.3	45
26	Phenology of marine phytoplankton from satellite ocean color measurements. Geophysical Research Letters, 2009, 36, .	4.0	37
27	Modeling and forecasting the distribution of<i>Vibrio vulnificus</i>in Chesapeake Bay. Journal of Applied Microbiology, 2014, 117, 1312-1327.	3.1	33
28	Relationship between the distribution pattern of right whales, Eubalaena glacialis, and satellite-derived sea surface thermal structure in the Great South Channel. Continental Shelf Research, 1989, 9, 247-260.	1.8	31
29	Blooms of Emiliania huxleyi (Prymnesiophyceae) in surface waters of the Nova Scotian Shelf and the Grand Bank. Journal of Plankton Research, 1993, 15, 1429-1438.	1.8	29
30	The influence of tropical instability waves on phytoplankton blooms in the wake of the Marquesas Islands during 1998 and on the currents observed during the drift of the Kon-Tiki in 1947. Geophysical Research Letters, 2004, 31, .	4.0	28
31	Modeling Rappahannock River Basin Using SWAT - Pilot for Chesapeake Bay Watershed. Applied Engineering in Agriculture, 2010, 26, 795-805.	0.7	25
32	Strong sea surface cooling in the eastern equatorial Pacific and implications for GalÃ¡pagos Penguin conservation. Geophysical Research Letters, 2015, 42, 6432-6437.	4.0	25
33	Geostationary satellites reveal motions of ocean surface fronts. Journal of Marine Systems, 2002, 37, 3-15.	2.1	23
34	Satellite remote sensing observations and aerial photography of storm-induced neritic carbonate transport from shallow carbonate platforms. International Journal of Remote Sensing, 2002, 23, 2853-2868.	2.9	17
35	Decadal timeâ€series of SeaWiFS retrieved CDOM absorption and estimated CO₂ photoproduction on the continental shelf of the eastern United States. Geophysical Research Letters, 2009, 36, .	4.0	17
36	An Advanced Data Assimilation System for the Chesapeake Bay: Performance Evaluation. Journal of Atmospheric and Oceanic Technology, 2012, 29, 1542-1557.	1.3	17

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37	Forecasting system predicts presence of sea nettles in Chesapeake Bay. Eos, 2002, 83, 321.	0.1	14
38	Interannual and Decadal Variability in Tropical Pacific Chlorophyll from a Statistical Reconstruction: 1958â€“2008. Journal of Climate, 2017, 30, 7293-7315.	3.2	13
39	Predicting phytoplankton composition from spaceâ€"Using the ratio of euphotic depth to mixed-layer depth: An evaluation. Remote Sensing of Environment, 1995, 53, 172-176.	11.0	12
40	Seasonality of oceanic primary production and its interannual variability from 1998 to 2007. Deep-Sea Research Part I: Oceanographic Research Papers, 2014, 90, 166-175.	1.4	12
41	Incorporating environmental data in abundance-based algorithms for deriving phytoplankton size classes in the Atlantic Ocean. Remote Sensing of Environment, 2020, 240, 111689.	11.0	12
42	The Significance of the South Atlantic Equatorial Countercurrent to the Ecology of the Green Turtle Breeding Population of Ascension Island. Journal of Herpetology, 1990, 24, 81.	0.5	10
43	The Roles of Emerging Technology and Modeling Techniques in Operational Ecological Forecasting at NOAA. Marine Technology Society Journal, 2015, 49, 193-203.	0.4	7
44	Assessing satellite sea surface salinity from ocean color radiometric measurements for coastal hydrodynamic model data assimilation. Journal of Applied Remote Sensing, 2016, 10, 036003.	1.3	5
45	Towards operational forecasts of algal blooms and pathogens. , 2012, , 345-368.		4
46	The 'CORSAGE' programme: Continuous orbital remote sensing of archipelagic geochemical effects. International Journal of Remote Sensing, 1997, 18, 305-321.	2.9	3
47	Modeling Hypoxia and Its Ecological Consequences in Chesapeake Bay. , 2017, , 119-147.		2
48	Satellites Reveal the Influence of Equatorial Currents and Tropical Instability Waves on the Drift of the Kon-Tiki in the Pacific. Oceanography, 2004, 17, 166-175.	1.0	2
49	Monitoring a Sentinel Species from Satellites: Detecting Emiliania huxleyi in 25 Years of AVHRR Imagery. , 2013, , 277-288.		1
50	An Introduction to Satellite Sensors, Observations and Techniques. , 2007, , 21-50.		0