Otis B Brown

List of Publications by Citations

63 papers	5,497 citations	34 h-index	69 g-index
69 ext. papers	5,924 ext. citations	6.3 avg, IF	4.65 L-index

#	Paper	IF	Citations
63	A semianalytic radiance model of ocean color. *Journal of Geophysical Research*, **1988**, 93, 10909		895
62	Phytoplankton pigment concentrations in the Middle Atlantic Bight: comparison of ship determinations and CZCS estimates. *Applied Optics*, **1983**, 22, 20-36	1.7	582
61	On the limiting aerodynamic roughness of the ocean in very strong winds. *Geophysical Research Letters*, **2004**, 31,	4.9	542
60	Computed relationships between the inherent and apparent optical properties of a flat homogeneous ocean. *Applied Optics*, **1975**, 14, 417-27	1.7	487
59	An overview of MODIS capabilities for ocean science observations. *IEEE Transactions on Geoscience and Remote Sensing*, **1998**, 36, 1250-1265	8.1	334
58	Temporal variations in the separation of Brazil and Malvinas Currents. *Deep-sea Research Part A, Oceanographic Research Papers*, **1988**, 35, 1971-1990		237
57	Study of the Rō de la Plata turbidity front, Part 1: spatial and temporal distribution. *Continental Shelf Research*, **1996**, 16, 1259-1282	2.4	164
56	The Marine-Atmospheric Emitted Radiance Interferometer: A High-Accuracy, Seagoing Infrared Spectroradiometer. *Journal of Atmospheric and Oceanic Technology*, **2001**, 18, 994-1013	2	142
55	A decade of sea surface temperature from MODIS. *Remote Sensing of Environment*, **2015**, 165, 27-41	13.2	132
54	Observations of the Infrared Radiative Properties of the Ocean Implications for the Measurement of Sea Surface Temperature via Satellite Remote Sensing. *Bulletin of the American Meteorological Society*, **1996**, 77, 41-51	6.1	114
53	Chronology of warm-core ring 82B. *Journal of Geophysical Research*, **1985**, 90, 8803		100
52	Nimbus 7 CZCS: reduction of its radiometric sensitivity with time. *Applied Optics*, **1983**, 22, 3929-31	1.7	99
51	Phytoplankton blooming off the u.s. East coast: a satellite description. *Science*, **1985**, 229, 163-7	33.3	97
50	Surface-ocean color and deep-ocean carbon flux: how close a connection?. *Deep-sea Research Part A, Oceanographic Research Papers*, **1990**, 37, 1331-1343		91
49	An Independent Assessment of Pathfinder AVHRR Sea Surface Temperature Accuracy Using the Marine Atmosphere Emitted Radiance Interferometer (MAERI). *Bulletin of the American Meteorological Society*, **2000**, 81, 1525-1536	6.1	89
48	Agulhas ring dynamics from TOPEX/POSEIDON satellite altimeter data. *Journal of Marine Research*, **1997**, 55, 861-883	1.5	87
47	Calibration of advanced very high resolution radiometer infrared observations. *Journal of Geophysical Research*, **1985**, 90, 11667		83

46	Development of Near-Surface Flow Pattern and Water Mass Distribution in the Somali Basin in Response to the Southwest Monsoon of 1979. *Journal of Physical Oceanography*, **1983**, 13, 1398-1415	2.4	81
45	Rapid evolution of a Gulf Stream warm-core ring. *Nature*, **1984**, 308, 837-840	50.4	78
44	Gulf Stream warm rings: a statistical study of their behavior. *Deep-sea Research Part A, Oceanographic Research Papers*, **1986**, 33, 1459-1473		73
43	The Annual Cycle of Satellite-derived Sea Surface Temperature in the Southwestern Atlantic Ocean. *Journal of Climate*, **1991**, 4, 457-467	4.4	58
42	Efficient objective analysis of dynamically heterogeneous and nonstationary fields via the parameter matrix. *Deep-sea Research Part A, Oceanographic Research Papers*, **1992**, 39, 1255-1271		56
41	Evolution of sea surface temperature in the somali basin during the southwest monsoon of 1979. *Science*, **1980**, 209, 595-7	33.3	56
40	Gulf Stream frontal statistics from Florida Straits to Cape Hatteras derived from satellite and historical data. *Journal of Geophysical Research*, **1983**, 88, 4569-4577		52
39	Propagation of thermal fronts in the somali current system. *Deep-sea Research Part A, Oceanographic Research Papers*, **1981**, 28, 521-527		52
38	Satellite infrared observations of the kinematics of a warm-core ring. *Marine and Freshwater Research*, **1983**, 34, 535	2.2	48
37	Observations of offshore shelf-water transport induced by a warm-core ring. *Deep-sea Research Part A, Oceanographic Research Papers*, **1992**, 39, S97-S113		43
36	Irradiance reflectivity of a flat ocean as a function of its optical properties. *Applied Optics*, **1973**, 12, 1549-51	1.7	43
35	Influence of bottom depth and albedo on the diffuse reflectance of a flat homogeneous ocean. *Applied Optics*, **1974**, 13, 2153-9	1.7	42
34	Two component mie scattering models of sargasso sea particles. *Applied Optics*, **1973**, 12, 2461-5	1.7	41
33	A THEORETICAL MODEL OF LIGHT SCATTERING BY SARGASSO SEA PARTICULATES1. *Limnology and Oceanography*, **1972**, 17, 826-832	4.8	40
32	Size-refractive index distribution of clear coastal water particulates from light scattering. *Applied Optics*, **1974**, 13, 2874-81	1.7	38
31	Calibration of advanced very high resolution radiometer infrared channels: A new approach to nonlinear correction. *Journal of Geophysical Research*, **1993**, 98, 18257		36
30	Processing and analysis of large volumes of satellite-derived thermal infrared data. *Journal of Geophysical Research*, **1987**, 92, 12993		36
29	Multiplafform sampling (ship, aircraft, and satellite) of a Gulf Stream warm core ring. *Applied Optics*, **1987**, 26, 2068-81	1.7	34

28	Five years of Florida Current structure and transport from the Royal Caribbean Cruise Ship Explorer of the Seas. *Journal of Geophysical Research*, **2008**, 113,		32
27	Physical Characteristics and Processes of the Río de la Plata Estuary **1999**, 161-194		31
26	Unlocking the Potential of NEXRAD Data through NOAA's Big Data Partnership. *Bulletin of the American Meteorological Society*, **2018**, 99, 189-204	6.1	30
25	Sea-surface temperature measurements from the Moderate-Resolution Imaging Spectroradiometer (MODIS) on Aqua and Terra		26
24	Gulf Stream remote forcing of shelfbreak currents in the Mid-Atlantic Bight. *Geophysical Research Letters*, **1988**, 15, 405-407	4.9	24
23	Theory of Coincidence Counts and Simple Practical Methods of Coincidence Count Correction for Optical and Resistive Pulse Particle Counters. *Review of Scientific Instruments*, **1972**, 43, 1407-1412	1.7	21
22	Diffuse reflectance of the ocean: some effects of vertical structure. *Applied Optics*, **1975**, 14, 2892-5	1.7	20
21	Advances in satellite oceanography. *Reviews of Geophysics*, **1983**, 21, 1216	23.1	17
20	Challenges of a Sustained Climate Observing System **2013**, 13-50		15
19	Analysis of a general circulation model product: 1. Frontal systems in the Brazil/Malvinas and Kuroshio/Oyashio regions. *Journal of Geophysical Research*, **1992**, 97, 20117		14
18	Tidal variations of flow convergence, shear, and stratification at the Rio de la Plata estuary turbidity front. *Journal of Geophysical Research*, **2008**, 113,		12
17	Eddy and wave dynamics in the South Atlantic as diagnosed from Geosat altimeter data. *Journal of Geophysical Research*, **1993**, 98, 12297		12
16	Observations for Model Intercomparison Project (Obs4MIPs): status for CMIP6. *Geoscientific Model Development*, **2020**, 13, 2945-2958	6.3	9
15	A Conceptual Enterprise Framework for Managing Scientific Data Stewardship. *Data Science Journal* , **2018**, 17, 15	2	9
14	Comment on "Method for the determination of the index of refraction of particles suspended in the ocean". *Journal of the Optical Society of America*, **1973**, 63, 1616		8
13	Assimilation of Sea Surface Height Data into an Isopycnic Ocean Model. *Journal of Physical Oceanography*, **1996**, 26, 1189-1213	2.4	6
12	Seasonal and interannual studies of vortices in sea surface temperature data. *International Journal of Remote Sensing*, **2004**, 25, 1371-1376	3.1	5
11	A comparison of GEOSAT altimeter inferred currents and measured flow at 5400 m depth in the Argentine Basin. *Deep-Sea Research Part II: Topical Studies in Oceanography*, **1993**, 40, 989-999	2.3	5

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10	Processing, Compression and Transmission of Satellite IR Data for Near-Real-Time Use at Sea. *Journal of Atmospheric and Oceanic Technology*, **1988**, 5, 320-327	2	5
9	A multi-phase Monte Carlo technique for simulation of radiative transfer. *Journal of Quantitative Spectroscopy and Radiative Transfer*, **1975**, 15, 419-422	2.1	5
8	Interannual Variability of Arabian Sea Surface Temperature **1981**, 135-143		3
7	Sensitivity of Arctic Sea Ice Extent to Sea Ice Concentration Threshold Choice and Its Implication to Ice Coverage Decadal Trends and Statistical Projections. *Remote Sensing*, **2020**, 12, 807	5	2
6	Evidence for zonally-trapped propagating waves in the eastern atlantic from satellite sea surface temperature observations. *Boundary-Layer Meteorology*, **1980**, 18, 145-157	3.4	2
5	Observations for Model Intercomparison Project (Obs4MIPs): Status for CMIP6 **2019**,		1
4	members of commissions, boards, and committees1. *Bulletin of the American Meteorological Society* , **1999**, 80, 1599-1620	6.1	
3	Remote Sensing of Shelf Sea Hydrodynamics. *Eos*, **1985**, 66, 605	1.5	
2	Mesoscale ocean variability signal recovered from altimeter data in the SW Atlantic Ocean: a comparison of orbit error correction in three Geosat data sets. *Boletim Do Instituto Oceanográfico*, **1995**, 43, 101-110		
1	OBSERVATION OF LONG PERIOD SEA SURFACE TEMPERATURE VARIABILITY DURING GATE **1980**, 103-124		