

James A Carton

List of Publications by Year in descending order

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120
papers

10,548
citations

66343

42
h-index

33894

99
g-index

122
all docs

122
docs citations

122
times ranked

9341
citing authors

#	ARTICLE	IF	CITATIONS
1	Space-Based Observations for Understanding Changes in the Arctic-Boreal Zone. <i>Reviews of Geophysics</i> , 2020, 58, e2019RG000652.	23.0	39
2	GEOS-5S2S Version 2: The GMAO High-Resolution Coupled Model and Assimilation System for Seasonal Prediction. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2019JD031767.	3.3	52
3	Temperature and Salinity Variability in the SODA3, ECCO4r3, and ORAS5 Ocean Reanalyses, 1993-2015. <i>Journal of Climate</i> , 2019, 32, 2277-2293.	3.2	46
4	Observational Needs for Improving Ocean and Coupled Reanalysis, S2S Prediction, and Decadal Prediction. <i>Frontiers in Marine Science</i> , 2019, 6, 391.	2.5	24
5	Estimation of Systematic Errors in the GFS Using Analysis Increments. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 1626-1637.	3.3	14
6	On the representation error in data assimilation. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2018, 144, 1257-1278.	2.7	202
7	SODA3: A New Ocean Climate Reanalysis. <i>Journal of Climate</i> , 2018, 31, 6967-6983.	3.2	349
8	Improved Global Net Surface Heat Flux. <i>Journal of Geophysical Research: Oceans</i> , 2018, 123, 3144-3163.	2.6	25
9	Delayed and Quasi-Synchronous Response of Tropical Atlantic Surface Salinity to Rainfall. <i>Journal of Geophysical Research: Oceans</i> , 2018, 123, 5971-5985.	2.6	14
10	Interannual surface salinity on the northwestern Atlantic shelf. <i>Journal of Geophysical Research: Oceans</i> , 2017, 122, 3638-3659.	2.6	25
11	The role of the Indian Ocean sector for prediction of the coupled Indo-Pacific system: Impact of atmospheric coupling. <i>Journal of Geophysical Research: Oceans</i> , 2017, 122, 2813-2829.	2.6	3
12	Seasonal heat and freshwater cycles in the Arctic Ocean in CMIP5 coupled models. <i>Journal of Geophysical Research: Oceans</i> , 2016, 121, 2043-2057.	2.6	7
13	Global linkages originating from decadal oceanic variability in the subpolar North Atlantic. <i>Geophysical Research Letters</i> , 2016, 43, 10,909.	4.0	25
14	Climatological Annual Cycle of the Salinity Budgets of the Subtropical Maxima. <i>Journal of Physical Oceanography</i> , 2016, 46, 2981-2994.	1.7	26
15	A Hybrid Global Ocean Data Assimilation System at NCEP. <i>Monthly Weather Review</i> , 2015, 143, 4660-4677.	1.4	64
16	The seasonal cycle of the Arctic Ocean under climate change. <i>Geophysical Research Letters</i> , 2015, 42, 7681-7686.	4.0	29
17	From Salty to Fresh-Salinity Processes in the Upper-ocean Regional Study-2 (SPURS-2): Diagnosing the Physics of a Rainfall-Dominated Salinity Minimum. <i>Oceanography</i> , 2015, 28, 150-159.	1.0	26
18	Interannual Caribbean salinity in satellite data and model simulations. <i>Journal of Geophysical Research: Oceans</i> , 2015, 120, 1375-1387.	2.6	14

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19	A curious local surface salinity maximum in the northwestern tropical Atlantic. <i>Journal of Geophysical Research: Oceans</i> , 2014, 119, 484-495.	2.6	31
20	Salty anomalies forced by Tehuantepec and Papagayo gap winds: Aquarius observations. <i>Remote Sensing Letters</i> , 2014, 5, 568-574.	1.4	3
21	Year-to-year salinity changes in the Amazon plume: Contrasting 2011 and 2012 Aquarius/SACD and SMOS satellite data. <i>Remote Sensing of Environment</i> , 2014, 140, 14-22.	11.0	65
22	Sea level in ocean reanalyses and tide gauges. <i>Journal of Geophysical Research: Oceans</i> , 2014, 119, 147-155.	2.6	24
23	Ocean response to volcanic eruptions in coupled Model Intercomparison Project 5 simulations. <i>Journal of Geophysical Research: Oceans</i> , 2014, 119, 5622-5637.	2.6	90
24	A verification framework for interannual-to-decadal predictions experiments. <i>Climate Dynamics</i> , 2013, 40, 245-272.	3.8	254
25	Compatibility of C- and Ku-band scatterometer winds: ERS-2 and QuikSCAT. <i>Journal of Marine Systems</i> , 2013, 117-118, 72-80.	2.1	26
26	Removing Spurious Low-Frequency Variability in Drifter Velocities. <i>Journal of Atmospheric and Oceanic Technology</i> , 2013, 30, 353-360.	1.3	92
27	The local ensemble transform Kalman filter and the running-in-place algorithm applied to a global ocean general circulation model. <i>Nonlinear Processes in Geophysics</i> , 2013, 20, 1031-1046.	1.3	27
28	Tropical Atlantic Biases in CCSM4. <i>Journal of Climate</i> , 2012, 25, 3684-3701.	3.2	58
29	Intercomparison and validation of continental water level products derived from satellite radar altimetry. <i>Journal of Applied Remote Sensing</i> , 2012, 6, 061710.	1.3	53
30	Comparative analysis of classification algorithms and multiple sensor data for land use/land cover classification in the Brazilian Amazon. <i>Journal of Applied Remote Sensing</i> , 2012, 6, 061706.	1.3	36
31	Haline hurricane wake in the Amazon/Orinoco plume: AQUARIUS/SACD and SMOS observations. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	107
32	Does direct impact of SST on short wind waves matter for scatterometry?. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	29
33	Matching ASCAT and QuikSCAT winds. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	84
34	Subarctic and Arctic sea surface temperature and its relation to ocean heat content 1982-2010. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	26
35	Detecting historical ocean climate variability. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	8
36	Differences between two estimates of air-sea turbulent heat fluxes over the Atlantic Ocean. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	13

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37	Spurious trends in global surface drifter currents. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	4.0	46
38	Interannual to decadal variability of Atlantic Water in the Nordic and adjacent seas. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	29
39	Distinguishing the Roles of Natural and Anthropogenically Forced Decadal Climate Variability. <i>Bulletin of the American Meteorological Society</i> , 2011, 92, 141-156.	3.3	125
40	Climatic Effects on Lake Basins. Part I: Modeling Tropical Lake Levels. <i>Journal of Climate</i> , 2011, 24, 2983-2999.	3.2	18
41	Impact of Bathythermograph Temperature Bias Models on an Ocean Reanalysis. <i>Journal of Climate</i> , 2011, 24, 84-93.	3.2	14
42	On the Rapid Intensification of Hurricane Wilma (2005). Part I: Model Prediction and Structural Changes. <i>Weather and Forecasting</i> , 2011, 26, 885-901.	1.4	81
43	The 1918/19 El Niño. <i>Bulletin of the American Meteorological Society</i> , 2010, 91, 177-183.	3.3	44
44	Intraseasonal Latent Heat Flux Based on Satellite Observations. <i>Journal of Climate</i> , 2009, 22, 4539-4556.	3.2	46
45	Observed Subseasonal Variability of Oceanic Barrier and Compensated Layers. <i>Journal of Climate</i> , 2009, 22, 6104-6119.	3.2	34
46	Use of breeding to detect and explain instabilities in the global ocean. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	16
47	Variability of upwelling and chlorophyll in the equatorial Atlantic. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	53
48	Global Decadal Upper-Ocean Heat Content as Viewed in Nine Analyses. <i>Journal of Climate</i> , 2008, 21, 6015-6035.	3.2	70
49	Comparison of bulk sea surface and mixed layer temperatures. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	15
50	A Reanalysis of Ocean Climate Using Simple Ocean Data Assimilation (SODA). <i>Monthly Weather Review</i> , 2008, 136, 2999-3017.	1.4	1,558
51	Variability of the Oceanic Mixed Layer, 1960–2004. <i>Journal of Climate</i> , 2008, 21, 1029-1047.	3.2	83
52	Origin of the Springtime Westerly Bias in Equatorial Atlantic Surface Winds in the Community Atmosphere Model Version 3 (CAM3) Simulation. <i>Journal of Climate</i> , 2008, 21, 4766-4778.	3.2	21
53	What's Next for Salinity?. <i>Oceanography</i> , 2008, 21, 82-85.	1.0	4
54	Seasonal Climate of the Tropical Atlantic Sector in the NCAR Community Climate System Model 3: Error Structure and Probable Causes of Errors. <i>Journal of Climate</i> , 2007, 20, 1053-1070.	3.2	61

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55	Fine-Resolution Global Sea-Ice/Ocean Modeling and Data Assimilation. , 2006, , .		0
56	Influence of the tropics on the climate of the South Atlantic. Geophysical Research Letters, 2006, 33, .	4.0	10
57	Low frequency variation of sea surface salinity in the tropical Atlantic. Geophysical Research Letters, 2006, 33, .	4.0	24
58	Progress and Prospects of U.S. Data Assimilation in Ocean Research. Oceanography, 2006, 19, 172-183.	1.0	33
59	Climate Fluctuations of Tropical Coupled Systems—The Role of Ocean Dynamics. Journal of Climate, 2006, 19, 5122-5174.	3.2	203
60	The Community Climate System Model Version 3 (CCSM3). Journal of Climate, 2006, 19, 2122-2143.	3.2	2,075
61	Forecast Model Bias Correction in Ocean Data Assimilation. Monthly Weather Review, 2005, 133, 1328-1342.	1.4	54
62	Sea level rise and the warming of the oceans in the Simple Ocean Data Assimilation (SODA) ocean reanalysis. Journal of Geophysical Research, 2005, 110, .	3.3	214
63	Tropical instability waves at 0°N, 23°W in the Atlantic: A case study using Pilot Research Moored Array in the Tropical Atlantic (PIRATA) mooring data. Journal of Geophysical Research, 2005, 110, .	3.3	48
64	Satellite evidence of hurricane-induced phytoplankton blooms in an oceanic desert. Journal of Geophysical Research, 2004, 109, .	3.3	282
65	Tropical instability vortices in the Atlantic Ocean. Journal of Geophysical Research, 2004, 109, .	3.3	26
66	Seasonal salt budget of the northwestern tropical Atlantic Ocean along 38°W. Journal of Geophysical Research, 2004, 109, .	3.3	58
67	Seasonal mixed layer heat budget of the tropical Atlantic Ocean. Journal of Geophysical Research, 2003, 108, .	3.3	139
68	Near surface westerly wind jet in the Atlantic ITCZ. Geophysical Research Letters, 2003, 30, .	4.0	61
69	The Intertropical Convergence Zone in the South Atlantic and the Equatorial Cold Tongue. Journal of Climate, 2003, 16, 723-733.	3.2	46
70	Role of the Atmosphere in Climate Variability of the Tropical Atlantic. Journal of Climate, 2003, 16, 2052-2065.	3.2	41
71	Modeling Climate Variability in the Tropical Atlantic Atmosphere. Journal of Climate, 2003, 16, 3858-3876.	3.2	11
72	SST-forced surface wind variability in the tropical Atlantic: An empirical model. Journal of Geophysical Research, 2002, 107, ACL 4-1.	3.3	12

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73	Secular trend in the near-surface currents of the equatorial Pacific Ocean. <i>Geophysical Research Letters</i> , 2002, 29, 9-1-9-3.	4.0	1
74	Surface drifter pathways originating in the equatorial Atlantic cold tongue. <i>Geophysical Research Letters</i> , 2002, 29, 62-1-62-4.	4.0	18
75	Seasonal Heat Budgets of the North Pacific and North Atlantic Oceans. <i>Journal of Physical Oceanography</i> , 2002, 32, 3474-3489.	1.7	12
76	Coupled land/atmosphere interactions in the West African Monsoon. <i>Geophysical Research Letters</i> , 2001, 28, 1503-1506.	4.0	46
77	Intense surface currents in the tropical Pacific during 1996-1998. <i>Journal of Geophysical Research</i> , 2001, 106, 16673-16684.	3.3	24
78	Anomalous surface currents in the tropical Indian Ocean. <i>Geophysical Research Letters</i> , 2001, 28, 4207-4210.	4.0	28
79	Identifying Low-Dimensional Nonlinear Behavior in Atmospheric Data. <i>Monthly Weather Review</i> , 2001, 129, 2116-2125.	1.4	7
80	A Simple Ocean Data Assimilation Analysis of the Global Upper Ocean 1950-95. Part I: Methodology. <i>Journal of Physical Oceanography</i> , 2000, 30, 294-309.	1.7	569
81	A Simple Ocean Data Assimilation Analysis of the Global Upper Ocean 1950-95. Part II: Results. <i>Journal of Physical Oceanography</i> , 2000, 30, 311-326.	1.7	246
82	Structure of Interannual-to-Decadal Climate Variability in the Tropical Atlantic Sector. <i>Journal of Climate</i> , 2000, 13, 3285-3297.	3.2	180
83	Comparison of retrospective analyses of the global ocean heat content. <i>Dynamics of Atmospheres and Oceans</i> , 1999, 29, 119-145.	1.8	11
84	Caribbean Sea eddies inferred from TOPEX/POSEIDON altimetry and a 1/6° Atlantic Ocean model simulation. <i>Journal of Geophysical Research</i> , 1999, 104, 7743-7752.	3.3	71
85	Interannual and Decadal Variability in the Tropical and Midlatitude Pacific Ocean. <i>Journal of Climate</i> , 1999, 12, 3402-3418.	3.2	56
86	Gravity and the hydrosphere: new frontier. <i>Hydrological Sciences Journal</i> , 1999, 44, 407-415.	2.6	17
87	Satellite gravity: insights into the solid Earth and its fluid envelope. <i>Eos</i> , 1998, 79, 237-237.	0.1	5
88	Latent Heat Flux and Interannual Variability of the Coupled Atmosphere-Ocean System. <i>Journals of the Atmospheric Sciences</i> , 1998, 55, 494-501.	1.7	16
89	A New Model of the Oceanic Evaporation Duct. <i>Journal of Applied Meteorology and Climatology</i> , 1997, 36, 193-204.	1.7	143
90	Annual cycle of sea surface temperature in the tropical Atlantic Ocean. <i>Journal of Geophysical Research</i> , 1997, 102, 27813-27824.	3.3	66

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91	The hydrography and circulation of the upper 1200 meters in the tropical North Atlantic during 1982â€“91. <i>Journal of Marine Research</i> , 1997, 55, 633-670.	0.3	9
92	Annual Cycle and ENSO in a Coupled Oceanâ€“Atmosphere General Circulation Model. <i>Monthly Weather Review</i> , 1997, 125, 680-702.	1.4	36
93	See-saw sea. <i>Nature</i> , 1997, 385, 487-489.	27.8	5
94	Decadal and Interannual SST Variability in the Tropical Atlantic Ocean. <i>Journal of Physical Oceanography</i> , 1996, 26, 1165-1175.	1.7	233
95	Impact of altimeter, thermistor, and expendable bathythermograph data on retrospective analyses of the tropical Pacific Ocean. <i>Journal of Geophysical Research</i> , 1996, 101, 14147-14159.	3.3	41
96	A Numerical Simulation of the Variability in the Tropical Atlantic Ocean, 1980â€“88. <i>Journal of Physical Oceanography</i> , 1995, 25, 835-854.	1.7	31
97	Dynamics of the equatorial Atlantic from altimetry. <i>Journal of Geophysical Research</i> , 1995, 100, 25061.	3.3	9
98	Sea level variability in the eastern tropical Pacific as observed by TOPEX and Tropical Ocean-Global Atmosphere Tropical Atmosphere-Ocean Experiment. <i>Journal of Geophysical Research</i> , 1994, 99, 24739.	3.3	33
99	Warm Events in the Tropical Atlantic. <i>Journal of Physical Oceanography</i> , 1994, 24, 888-903.	1.7	200
100	The Seasonal Cycle in Coupled Ocean-Atmosphere Model. <i>Journal of Climate</i> , 1994, 7, 1208-1217.	3.2	44
101	Comparison of dynamic height variations in the tropical Atlantic during 1987â€“1989 as viewed in sections Hydrography and Geosat altimetry. <i>Journal of Geophysical Research</i> , 1993, 98, 14369-14377.	3.3	7
102	Effect of seasonal surface freshwater flux on sea surface temperature in the tropical Atlantic Ocean. <i>Journal of Geophysical Research</i> , 1991, 96, 12593-12598.	3.3	36
103	Long waves and eddies in the tropical Atlantic Ocean: 1984â€“1990. <i>Journal of Geophysical Research</i> , 1991, 96, 15161-15171.	3.3	20
104	Predictability of the tropical Atlantic Ocean. <i>Journal of Marine Systems</i> , 1991, 1, 299-313.	2.1	3
105	Data Assimilation Applied to the Temperature and Circulation in the Tropical Atlantic, 1983â€“84. <i>Journal of Physical Oceanography</i> , 1990, 20, 1150-1165.	1.7	28
106	Annual and Interannual Variation of the Freshwater Budget in the Tropical Atlantic Ocean and the Caribbean Sea. <i>Journal of Physical Oceanography</i> , 1990, 20, 831-845.	1.7	41
107	Estimates of the zonal slope and seasonal transport of the Atlantic North Equatorial Countercurrent. <i>Journal of Geophysical Research</i> , 1990, 95, 3091-3100.	3.3	33
108	Application of multi-variate statistical objective analysis to the circulation in the tropical Atlantic ocean. <i>Dynamics of Atmospheres and Oceans</i> , 1989, 13, 491-515.	1.8	14

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109	Estimates of sea level in the tropical Atlantic Ocean using Geosat altimetry. Journal of Geophysical Research, 1989, 94, 8029-8039.	3.3	22
110	Spatial Dependence of the Relationship between Rainfall and Outgoing Longwave Radiation in the Tropical Atlantic. Journal of Climate, 1988, 1, 1047-1054.	3.2	31
111	How Predictable are the Geostrophic Currents in the Recirculation Zone of the North Atlantic?. Journal of Physical Oceanography, 1987, 17, 751-762.	1.7	16
112	Dynamical Forecasting and Dynamical Interpolation: An Experiment in the California Current. Journal of Physical Oceanography, 1986, 16, 1561-1579.	1.7	37
113	Modelling the pole tide and its effect on the Earth's rotation. Geophysical Journal International, 1986, 84, 121-137.	2.4	33
114	A real-time dynamical forecast of ocean synoptic/mesoscale eddies. Nature, 1984, 309, 781-783.	27.8	80
115	Coastal Circulation Caused by an Isolated Storm. Journal of Physical Oceanography, 1984, 14, 114-124.	1.7	19
116	Coastal Upwelling Viewed as a Stochastic Phenomenon. Journal of Physical Oceanography, 1984, 14, 1499-1509.	1.7	10
117	The variation with frequency of the long-period tides. Journal of Geophysical Research, 1983, 88, 7563-7571.	3.3	33
118	Towards a High-Resolution Global Coupled Navy Prediction System. , 0, , .		0
119	A Global Survey of Ocean-Atmosphere Interaction and Climate Variability. Geophysical Monograph Series, 0, , 1-19.	0.1	35
120	Tropical Atlantic Variability: Patterns, Mechanisms, and Impacts. Geophysical Monograph Series, 0, , 121-142.	0.1	219