

G J Goni

List of Publications by Year in descending order

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120
papers

5,560
citations

94433

37
h-index

88630

70
g-index

122
all docs

122
docs citations

122
times ranked

6012
citing authors

#	ARTICLE	IF	CITATIONS
1	Effects of a Warm Oceanic Feature on Hurricane Opal. Monthly Weather Review, 2000, 128, 1366-1383.	1.4	611
2	A review of global ocean temperature observations: Implications for ocean heat content estimates and climate change. Reviews of Geophysics, 2013, 51, 450-483.	23.0	367
3	Application of Oceanic Heat Content Estimation to Operational Forecasting of Recent Atlantic Category 5 Hurricanes. Weather and Forecasting, 2008, 23, 3-16.	1.4	194
4	State of the Climate in 2017. Bulletin of the American Meteorological Society, 2018, 99, Si-S310.	3.3	160
5	Oceanic mesoscale eddies as revealed by Lagrangian coherent structures. Geophysical Research Letters, 2008, 35, .	4.0	140
6	Applications of Satellite-Derived Ocean Measurements to Tropical Cyclone Intensity Forecasting. Oceanography, 2009, 22, 190-197.	1.0	136
7	State of the Climate in 2010. Bulletin of the American Meteorological Society, 2011, 92, S1-S236.	3.3	135
8	State of the Climate in 2012. Bulletin of the American Meteorological Society, 2013, 94, S1-S258.	3.3	129
9	Objective Detection of Oceanic Eddies and the Agulhas Leakage. Journal of Physical Oceanography, 2013, 43, 1426-1438.	1.7	124
10	Toward a Coordinated Global Observing System for Seagrasses and Marine Macroalgae. Frontiers in Marine Science, 2019, 6, .	2.5	123
11	State of the Climate in 2009. Bulletin of the American Meteorological Society, 2010, 91, s1-s222.	3.3	121
12	Atlantic Meridional Overturning Circulation: Observed Transport and Variability. Frontiers in Marine Science, 2019, 6, .	2.5	120
13	Ocean thermal structure monitoring could aid in the intensity forecast of tropical cyclones. Eos, 2003, 84, 573.	0.1	119
14	Dynamics of the Brazil-Malvinas Confluence based on inverted echo sounders and altimetry. Journal of Geophysical Research, 1996, 101, 16273-16289.	3.3	114
15	A census of North Brazil Current Rings observed from TOPEX/POSEIDON altimetry: 1992-1998. Geophysical Research Letters, 2001, 28, 1-4.	4.0	103
16	Simulating transport pathways of pelagic Sargassum from the Equatorial Atlantic into the Caribbean Sea. Progress in Oceanography, 2018, 165, 205-214.	3.2	101
17	Agulhas ring dynamics from TOPEX/POSEIDON satellite altimeter data. Journal of Marine Research, 1997, 55, 861-883.	0.3	99
18	Ocean heat content for tropical cyclone intensity forecasting and its impact on storm surge. Natural Hazards, 2013, 66, 1481-1500.	3.4	98

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19	Varying mesoscale structures influence larval fish distribution in the northern Gulf of Mexico. <i>Marine Ecology - Progress Series</i> , 2012, 463, 245-257.	1.9	97
20	OceanGliders: A Component of the Integrated GOOS. <i>Frontiers in Marine Science</i> , 2019, 6, .	2.5	83
21	State of the Climate in 2008. <i>Bulletin of the American Meteorological Society</i> , 2009, 90, S1-S196.	3.3	74
22	XBT Science: Assessment of Instrumental Biases and Errors. <i>Bulletin of the American Meteorological Society</i> , 2016, 97, 924-933.	3.3	72
23	Interannual variations in the Atlantic meridional overturning circulation and its relationship with the net northward heat transport in the South Atlantic. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	67
24	What Caused the Accelerated Sea Level Changes Along the U.S. East Coast During 2010â€“2015?. <i>Geophysical Research Letters</i> , 2018, 45, 13,367.	4.0	65
25	Observed low frequency variability of the Brazil Current front. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	64
26	Three Agulhas rings observed during the Benguela Current Experiment. <i>Journal of Geophysical Research</i> , 1999, 104, 20971-20985.	3.3	61
27	Investigation of the Brazil Current front variability from altimeter data. <i>Journal of Geophysical Research</i> , 2001, 106, 31117-31128.	3.3	57
28	The current status of the real-time <i>in situ</i> Global Ocean Observing System for operational oceanography. <i>Journal of Operational Oceanography</i> , 2015, 8, s189-s200.	1.2	56
29	Early emergence of anthropogenically forced heat waves in the western United States and Great Lakes. <i>Nature Climate Change</i> , 2018, 8, 414-420.	18.8	52
30	Annual cycle of the Brazil-Malvinas confluence region in the National Center for Atmospheric Research Climate System Model. <i>Journal of Geophysical Research</i> , 2000, 105, 26167-26177.	3.3	50
31	Cross-gyre transport by North Brazil Current rings. <i>Elsevier Oceanography Series</i> , 2003, 68, 411-441.	0.1	50
32	Upper ocean response to Hurricane Gonzalo (2014): Salinity effects revealed by targeted and sustained underwater glider observations. <i>Geophysical Research Letters</i> , 2015, 42, 7131-7138.	4.0	49
33	Temporal variability of the South Atlantic Meridional Overturning Circulation between 20Â°S and 35Â°S. <i>Geophysical Research Letters</i> , 2015, 42, 7655-7662.	4.0	46
34	Transport and variability of the Antarctic Circumpolar Current south of Africa. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	44
35	Investigation of the North Brazil Current retroflexion and North Equatorial Countercurrent variability. <i>Geophysical Research Letters</i> , 2004, 31, n/a-n/a.	4.0	43
36	Variability of preferred environmental conditions for Atlantic bluefin tuna (<i>Thunnus thynnus</i>) larvae in the Gulf of Mexico during 1993â€“2011. <i>Fisheries Oceanography</i> , 2016, 25, 320-336.	1.7	40

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37	State of the Climate in 2005. <i>Bulletin of the American Meteorological Society</i> , 2006, 87, s1-s102.	3.3	39
38	Global Perspectives on Observing Ocean Boundary Current Systems. <i>Frontiers in Marine Science</i> , 2019, 6, .	2.5	39
39	Sustainable Observations of the AMOC: Methodology and Technology. <i>Reviews of Geophysics</i> , 2020, 58, e2019RG000654.	23.0	39
40	Improving transport predictions of pelagic Sargassum. <i>Journal of Experimental Marine Biology and Ecology</i> , 2020, 529, 151398.	1.5	39
41	Monitoring the upper southeastern Atlantic transports using altimeter data. <i>Journal of Marine Research</i> , 1997, 55, 453-481.	0.3	38
42	Decadal Modulations of Interhemispheric Global Atmospheric Circulations and Monsoons by the South Atlantic Meridional Overturning Circulation. <i>Journal of Climate</i> , 2016, 29, 1831-1851.	3.2	38
43	Slow Down of the Gulf Stream during 1993â€“2016. <i>Scientific Reports</i> , 2019, 9, 6672.	3.3	37
44	State of the Climate in 2007. <i>Bulletin of the American Meteorological Society</i> , 2008, 89, S1-S179.	3.3	36
45	Basinâ€Wide Oceanographic Array Bridges the South Atlantic. <i>Eos</i> , 2014, 95, 53-54.	0.1	36
46	Synoptic study of warm rings in the North Brazil Current retroflexion region using satellite altimetry. <i>Elsevier Oceanography Series</i> , 2003, , 335-356.	0.1	35
47	North Brazil Current rings and transport of southern waters in a high resolution numerical simulation of the North Atlantic. <i>Elsevier Oceanography Series</i> , 2003, , 375-409.	0.1	35
48	Satellite Remote Sensing in Support of an Integrated Ocean Observing System. <i>IEEE Geoscience and Remote Sensing Magazine</i> , 2013, 1, 8-18.	9.6	35
49	The Ship of Opportunity Program. , 2010, , .		35
50	Low-salinity pools at Barbados, West Indies: Their origin, frequency, and variability. <i>Journal of Geophysical Research</i> , 2000, 105, 19699-19708.	3.3	32
51	An investigation of sound ray dynamics in the ocean volume using an area preserving mapping. <i>Wave Motion</i> , 1991, 14, 93-99.	2.0	31
52	Investigation of Brazil Current rings in the confluence region. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	31
53	Analysis of flight MH370 potential debris trajectories using ocean observations and numerical model results. <i>Journal of Operational Oceanography</i> , 2016, 9, 126-138.	1.2	31
54	More Than 50 Years of Successful Continuous Temperature Section Measurements by the Global Expendable Bathythermograph Network, Its Integrability, Societal Benefits, and Future. <i>Frontiers in Marine Science</i> , 2019, 6, .	2.5	31

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55	Ocean Observations in Support of Studies and Forecasts of Tropical and Extratropical Cyclones. <i>Frontiers in Marine Science</i> , 2019, 6, .	2.5	31
56	Transition regions and their role in the relationship between sea surface height and subsurface temperature structure in the Atlantic Ocean. <i>Geophysical Research Letters</i> , 2001, 28, 3943-3946.	4.0	29
57	Loop Current excursions and ring detachments during 1993â€“2009. <i>International Journal of Remote Sensing</i> , 2013, 34, 5042-5053.	2.9	29
58	Oceanographic conditions in the Gulf of Mexico in July 2010, during the Deepwater Horizon oil spill. <i>Continental Shelf Research</i> , 2014, 77, 118-131.	1.8	28
59	Seasonal variations in the South Atlantic Meridional Overturning Circulation from observations and numerical models. <i>Geophysical Research Letters</i> , 2014, 41, 4611-4618.	4.0	28
60	Surface Ocean Mixing Inferred from Different Multisatellite Altimetry Measurements. <i>Journal of Physical Oceanography</i> , 2010, 40, 2466-2480.	1.7	26
61	Remote sources for yearâ€“toâ€“year changes in the seasonality of the <sc>F</sc>lorida <sc>C</sc>urrent transport. <i>Journal of Geophysical Research: Oceans</i> , 2016, 121, 7547-7559.	2.6	25
62	Autonomous and Lagrangian Ocean Observations for Atlantic Tropical Cyclone Studies and Forecasts. <i>Oceanography</i> , 2017, 30, 92-103.	1.0	25
63	Statistical Evidence for the Role of Southwestern Indian Ocean Heat Content in the Indian Summer Monsoon Rainfall. <i>Scientific Reports</i> , 2018, 8, 12092.	3.3	25
64	Observation and quantification of inertial effects on the drift of floating objects at the ocean surface. <i>Physics of Fluids</i> , 2020, 32, .	4.0	25
65	Early Dynamics of Deep Blue XBT Probes. <i>Journal of Atmospheric and Oceanic Technology</i> , 2015, 32, 2253-2263.	1.3	20
66	Impact of Assimilating Underwater Glider Data on Hurricane Gonzalo (2014) Forecasts. <i>Weather and Forecasting</i> , 2017, 32, 1143-1159.	1.4	20
67	Weak chaos in an area-preserving mapping for sound ray propagation. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1991, 153, 181-185.	2.1	19
68	Identifying and Estimating Biases between XBT and Argo Observations Using Satellite Altimetry. <i>Journal of Atmospheric and Oceanic Technology</i> , 2010, 27, 226-240.	1.3	19
69	Validation of satellite-derived tropical cyclone heat potential with <i>in situ</i> observations in the North Indian Ocean. <i>Remote Sensing Letters</i> , 2012, 3, 615-620.	1.4	19
70	An assessment of the Brazil Current baroclinic structure and variability near 22Â° S in Distinct Ocean Forecasting and Analysis Systems. <i>Ocean Dynamics</i> , 2016, 66, 893-916.	2.2	19
71	Direct Evidence of a Changing Fall-Rate Bias in XBTs Manufactured during 1986â€“2008. <i>Journal of Atmospheric and Oceanic Technology</i> , 2011, 28, 1569-1578.	1.3	18
72	Identification of the Kuroshio Extension, its bifurcation and northern branch from altimetry and hydrographic data during October 1992-August 1999: Spatial and temporal variability. <i>Geophysical Research Letters</i> , 2001, 28, 1759-1762.	4.0	17

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73	An optimal XBT-based monitoring system for the South Atlantic meridional overturning circulation at 34°S. <i>Journal of Geophysical Research: Oceans</i> , 2015, 120, 161-181.	2.6	17
74	Clustering of Marine Debris and Sargassum-Like Drifters Explained by Inertial Particle Dynamics. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL089874.	4.0	17
75	Importance of the assimilation of Argo float measurements on the Meridional Overturning Circulation in the South Atlantic. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	4.0	16
76	A reconstructed South Atlantic Meridional Overturning Circulation time series since 1870. <i>Geophysical Research Letters</i> , 2017, 44, 3309-3318.	4.0	16
77	East Asian Monsoon as a Modulator of U.S. Great Plains Heat Waves. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 6342-6358.	3.3	16
78	Variability of the Deepwater Horizon Surface Oil Spill Extent and Its Relationship to Varying Ocean Currents and Extreme Weather Conditions. <i>The Reacting Atmosphere</i> , 2015, , 1-22.	0.8	16
79	An Overview of Global Observing Systems Relevant to GODAE. <i>Oceanography</i> , 2009, 22, 22-33.	1.0	16
80	Variability of the Atlantic off-equatorial eastward currents during 1993–2010 using a synthetic method. <i>Journal of Geophysical Research: Oceans</i> , 2013, 118, 3026-3045.	2.6	15
81	Relationship between ocean mean temperatures and Indian summer monsoon rainfall. <i>Atmospheric Science Letters</i> , 2015, 16, 408-413.	1.9	15
82	Heat content of the Arabian Sea Mini Warm Pool is increasing. <i>Atmospheric Science Letters</i> , 2016, 17, 39-42.	1.9	15
83	An Updated Estimate of Salinity for the Atlantic Ocean Sector Using Temperature–Salinity Relationships. <i>Journal of Atmospheric and Oceanic Technology</i> , 2018, 35, 1771-1784.	1.3	14
84	A Framework for the Development, Design and Implementation of a Sustained Arctic Ocean Observing System. <i>Frontiers in Marine Science</i> , 2019, 6, .	2.5	14
85	Monitoring pelagic Sargassum inundation potential for coastal communities. <i>Journal of Operational Oceanography</i> , 2023, 16, 48-59.	1.2	14
86	Wind forced variability of the Antarctic Circumpolar Current south of Africa between 1993 and 2010. <i>Journal of Geophysical Research: Oceans</i> , 2014, 119, 1123-1145.	2.6	13
87	Carriers of Sargassum and mechanism for coastal inundation in the Caribbean Sea. <i>Physics of Fluids</i> , 2022, 34, .	4.0	13
88	Chapter 5 Combining altimeter observations and oceanographic data for ocean circulation and climate studies. <i>Elsevier Oceanography Series</i> , 2000, 63, 79-97.	0.1	12
89	Near-surface salinity and temperature structure observed with dual-sensor drifters in the subtropical South Pacific. <i>Journal of Geophysical Research: Oceans</i> , 2017, 122, 5952-5969.	2.6	12
90	Observations of Near-Surface Salinity and Temperature Structure with Dual-Sensor Lagrangian Drifters During SPURS-2. <i>Oceanography</i> , 2019, 32, 66-75.	1.0	12

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91	Global Oceans. Bulletin of the American Meteorological Society, 2020, 101, S129-S184.	3.3	12
92	The impact of historical biases on the XBT-derived meridional overturning circulation estimates at 34°S. Geophysical Research Letters, 2015, 42, 1848-1855.	4.0	11
93	OSSE Assessment of Underwater Glider Arrays to Improve Ocean Model Initialization for Tropical Cyclone Prediction. Journal of Atmospheric and Oceanic Technology, 2020, 37, 467-487.	1.3	11
94	Global Oceans. Bulletin of the American Meteorological Society, 2021, 102, S143-S198.	3.3	11
95	Reducing Biases in XBT Measurements by Including Discrete Information from Pressure Switches. Journal of Atmospheric and Oceanic Technology, 2013, 30, 810-824.	1.3	10
96	The Role of the Gulf of Mexico Ocean Conditions in the Intensification of Hurricane Michael (2018). Journal of Geophysical Research: Oceans, 2021, 126, e2020JC016969.	2.6	10
97	North Atlantic subpolar gyre along predetermined ship tracks since 1993: a monthly data set of surface temperature, salinity, and density. Earth System Science Data, 2018, 10, 1403-1415.	9.9	9
98	Surface currents in the tropical Atlantic across high density XBT line AX08. Geophysical Research Letters, 2002, 29, 71-1-71-4.	4.0	8
99	Inferring Florida Current Volume Transport From Satellite Altimetry. Journal of Geophysical Research: Oceans, 2020, 125, e2020JC016763.	2.6	8
100	Measuring the Atlantic Meridional Overturning Circulation. Marine Technology Society Journal, 2015, 49, 167-177.	0.4	8
101	Exposing XBT bias in the Atlantic sector of the Southern Ocean. Deep-Sea Research Part I: Oceanographic Research Papers, 2013, 80, 11-22.	1.4	7
102	Planetary equatorial trapped waves in the Atlantic ocean from TOPEX/POSEIDON altimetry. Elsevier Oceanography Series, 2003, 68, 213-232.	0.1	6
103	Mixed-Layer Salinity Budget in the SPURS Region on Seasonal to Interannual Time Scales. Oceanography, 2015, 28, 78-85.	1.0	6
104	Synergy of In Situ and Satellite Ocean Observations in Determining Meridional Heat Transport in the Atlantic Ocean. Journal of Geophysical Research: Oceans, 2021, 126, e2020JC017073.	2.6	6
105	The Complementary Value of XBT and Argo Observations to Monitor Ocean Boundary Currents and Meridional Heat and Volume Transports: A Case Study in the Atlantic Ocean. Journal of Atmospheric and Oceanic Technology, 2020, 37, 2267-2282.	1.3	6
106	Surface mixed layer temperature and layer depth in water off the Argentinian Coast. Journal of Geophysical Research, 1983, 88, 5987-5996.	3.3	5
107	Ocean Conditions and the Intensification of Three Major Atlantic Hurricanes in 2017. Monthly Weather Review, 2021, 149, 1265-1286.	1.4	5
108	SURATLANT: a 1993-2017 surface sampling in the central part of the North Atlantic subpolar gyre. Earth System Science Data, 2018, 10, 1901-1924.	9.9	5

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109	Treading Water: Tools to Help US Coastal Communities Plan for Sea Level Rise Impacts. <i>Frontiers in Marine Science</i> , 2019, 6, .	2.5	4
110	Interannual Variability of the South Atlantic Ocean Heat Content in a High-Resolution Versus a Low-Resolution General Circulation Model. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL089908.	4.0	4
111	Chaos in Underwater Acoustics. , 1991, , 139-160.		4
112	The Tropics. <i>Bulletin of the American Meteorological Society</i> , 2020, 101, S185-S238.	3.3	4
113	Remote Impact of the Equatorial Pacific on Florida Current Transport. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	4
114	The Impact of Improved Thermistor Calibration on the Expendable Bathythermograph Profile Data. <i>Journal of Atmospheric and Oceanic Technology</i> , 2017, 34, 1947-1961.	1.3	3
115	What Caused the Large-Scale Heat Deficit in the Subtropical South Atlantic Ocean During 2009-2012?. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL088206.	4.0	2
116	Progress and Challenges in Monitoring Ocean Temperature and Heat Content. , 2010, , .		2
117	Comparison of hydrographic and altimeter based estimates of sea level height variability in the Atlantic Ocean. <i>Elsevier Oceanography Series</i> , 2003, , 23-48.	0.1	1
118	NOAA/AOML-CARICOOS Underwater Glider Operations in Support of Tropical Cyclone Intensification Studies. , 2018, , .		1
119	The Tropics. <i>Bulletin of the American Meteorological Society</i> , 2021, 102, S199-S262.	3.3	1
120	Mesoscale ocean variability signal recovered from altimeter data in the SW Atlantic Ocean: a comparison of orbit error correction in three Geosat data sets. <i>Boletim Do Instituto Oceanográfico</i> , 1995, 43, 101-110.	0.2	0