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	Monitoring pelagic Sargassum inundation potential for coastal communities. Journal of Operational Oceanography, 2023, 16, 48-59.	1.2	14
2	Carriers of Sargassum and mechanism for coastal inundation in the Caribbean Sea. Physics of Fluids, 2022, 34, .	4.0	13
3	Remote Impact of the Equatorial Pacific on Florida Current Transport. Geophysical Research Letters, 2022, 49, .	4.0	4
4	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
5	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
6	Ocean Conditions and the Intensification of Three Major Atlantic Hurricanes in 2017. Monthly Weather Review, 2021, 149, 1265-1286.	1.4	5
7	Global Oceans. Bulletin of the American Meteorological Society, 2021, 102, S143-S198.	3.3	11
8	The Tropics. Bulletin of the American Meteorological Society, 2021, 102, S199-S262.	3.3	1
9	Sustainable Observations of the AMOC: Methodology and Technology. Reviews of Geophysics, 2020, 58, e2019RG000654.	23.0	39
10	Clustering of Marineâ€Debrisâ€and Sargassumâ€Like Drifters Explained by Inertial Particle Dynamics. Geophysical Research Letters, 2020, 47, e2020GL089874.	4.0	17
11	Interannual Variability of the South Atlantic Ocean Heat Content in a Highâ€Resolution Versus a Lowâ€Resolution General Circulation Model. Geophysical Research Letters, 2020, 47, e2020GL089908.	4.0	4
12	What Caused the Largeâ€Scale Heat Deficit in the Subtropical South Atlantic Ocean During 2009â€“2012?. Geophysical Research Letters, 2020, 47, e2020GL088206.	4.0	2
13	Improving transport predictions of pelagic Sargassum. Journal of Experimental Marine Biology and Ecology, 2020, 529, 151398.	1.5	39
14	Observation and quantification of inertial effects on the drift of floating objects at the ocean surface. Physics of Fluids, 2020, 32, .	4.0	25
15	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
16	Inferring Florida Current Volume Transport From Satellite Altimetry. Journal of Geophysical Research: Oceans, 2020, 125, e2020JC016763.	2.6	8
17	The Tropics. Bulletin of the American Meteorological Society, 2020, 101, S185-S238.	3.3	4
18	Global Oceans. Bulletin of the American Meteorological Society, 2020, 101, S129-S184.	3.3	12

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19	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
20	A Framework for the Development, Design and Implementation of a Sustained Arctic Ocean Observing System. Frontiers in Marine Science, 2019, 6, .	2.5	14
21	More Than 50 Years of Successful Continuous Temperature Section Measurements by the Global Expendable Bathythermograph Network, Its Integrability, Societal Benefits, and Future. Frontiers in Marine Science, 2019, 6, .	2.5	31
22	Observations of Near-Surface Salinity and Temperature Structure with Dual-Sensor Lagrangian Drifters During SPURS-2. Oceanography, 2019, 32, 66-75.	1.0	12
23	Atlantic Meridional Overturning Circulation: Observed Transport and Variability. Frontiers in Marine Science, 2019, 6, .	2.5	120
24	Global Perspectives on Observing Ocean Boundary Current Systems. Frontiers in Marine Science, 2019, 6, .	2.5	39
25	Ocean Observations in Support of Studies and Forecasts of Tropical and Extratropical Cyclones. Frontiers in Marine Science, 2019, 6, .	2.5	31
26	OceanGliders: A Component of the Integrated GOOS. Frontiers in Marine Science, 2019, 6, .	2.5	83
27	East Asian Monsoon as a Modulator of U.S. Great Plains Heat Waves. Journal of Geophysical Research D: Atmospheres, 2019, 124, 6342-6358.	3.3	16
28	Toward a Coordinated Global Observing System for Seagrasses and Marine Macroalgae. Frontiers in Marine Science, 2019, 6, .	2.5	123
29	Slow Down of the Gulf Stream during 1993â€“2016. Scientific Reports, 2019, 9, 6672.	3.3	37
30	Treading Water: Tools to Help US Coastal Communities Plan for Sea Level Rise Impacts. Frontiers in Marine Science, 2019, 6, .	2.5	4
31	Early emergence of anthropogenically forced heat waves in the western United States and Great Lakes. Nature Climate Change, 2018, 8, 414-420.	18.8	52
32	What Caused the Accelerated Sea Level Changes Along the U.S. East Coast During 2010â€“2015?. Geophysical Research Letters, 2018, 45, 13,367.	4.0	65
33	NOAA/AOML-CARICOOS Underwater Glider Operations in Support of Tropical Cyclone Intensification Studies. , 2018, , .		1
34	State of the Climate in 2017. Bulletin of the American Meteorological Society, 2018, 99, Si-S310.	3.3	160
35	Simulating transport pathways of pelagic Sargassum from the Equatorial Atlantic into the Caribbean Sea. Progress in Oceanography, 2018, 165, 205-214.	3.2	101
36	An Updated Estimate of Salinity for the Atlantic Ocean Sector Using Temperatureâ€“Salinity Relationships. Journal of Atmospheric and Oceanic Technology, 2018, 35, 1771-1784.	1.3	14

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37	Statistical Evidence for the Role of Southwestern Indian Ocean Heat Content in the Indian Summer Monsoon Rainfall. Scientific Reports, 2018, 8, 12092.	3.3	25
38	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
39	SURATLANT: a 1993â€“2017 surface sampling in the central part of the North Atlantic subpolar gyre. Earth System Science Data, 2018, 10, 1901-1924.	9.9	5
40	A reconstructed South Atlantic Meridional Overturning Circulation time series since 1870. Geophysical Research Letters, 2017, 44, 3309-3318.	4.0	16
41	Impact of Assimilating Underwater Glider Data on Hurricane Gonzalo (2014) Forecasts. Weather and Forecasting, 2017, 32, 1143-1159.	1.4	20
42	The Impact of Improved Thermistor Calibration on the Expendable Bathythermograph Profile Data. Journal of Atmospheric and Oceanic Technology, 2017, 34, 1947-1961.	1.3	3
43	Nearâ€surface salinity and temperature structure observed with dualâ€sensor drifters in the subtropical S outh P acific. Journal of Geophysical Research: Oceans, 2017, 122, 5952-5969.	2.6	12
44	Autonomous and Lagrangian Ocean Observations for Atlantic Tropical Cyclone Studies and Forecasts. Oceanography, 2017, 30, 92-103.	1.0	25
45	Analysis of flight MH370 potential debris trajectories using ocean observations and numerical model results. Journal of Operational Oceanography, 2016, 9, 126-138.	1.2	31
46	Heat content of the Arabian Sea Mini Warm Pool is increasing. Atmospheric Science Letters, 2016, 17, 39-42.	1.9	15
47	Remote sources for yearâ€toâ€year changes in the seasonality of the <scp>F</scp>lorida <scp>C</scp>urrent transport. Journal of Geophysical Research: Oceans, 2016, 121, 7547-7559.	2.6	25
48	Decadal Modulations of Interhemispheric Global Atmospheric Circulations and Monsoons by the South Atlantic Meridional Overturning Circulation. Journal of Climate, 2016, 29, 1831-1851.	3.2	38
49	Variability of preferred environmental conditions for Atlantic bluefin tuna (Thunnus thynnus) larvae in the Gulf of Mexico during 1993â€“2011. Fisheries Oceanography, 2016, 25, 320-336.	1.7	40
50	An assessment of the Brazil Current baroclinic structure and variability near 22Â° S in Distinct Ocean Forecasting and Analysis Systems. Ocean Dynamics, 2016, 66, 893-916.	2.2	19
51	XBT Science: Assessment of Instrumental Biases and Errors. Bulletin of the American Meteorological Society, 2016, 97, 924-933.	3.3	72
52	Relationship between ocean mean temperatures and Indian summer monsoon rainfall. Atmospheric Science Letters, 2015, 16, 408-413.	1.9	15
53	Upper ocean response to Hurricane Gonzalo (2014): Salinity effects revealed by targeted and sustained underwater glider observations. Geophysical Research Letters, 2015, 42, 7131-7138.	4.0	49
54	The impact of historical biases on the XBTâ€derived meridional overturning circulation estimates at 34Â°S. Geophysical Research Letters, 2015, 42, 1848-1855.	4.0	11

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55	Temporal variability of the South Atlantic Meridional Overturning Circulation between 20Â°S and 35Â°S. Geophysical Research Letters, 2015, 42, 7655-7662.	4.0	46
56	Mixed-Layer Salinity Budget in the SPURS Region on Seasonal to Interannual Time Scales. Oceanography, 2015, 28, 78-85.	1.0	6
57	The current status of the real-time in situ Global Ocean Observing System for operational oceanography. Journal of Operational Oceanography, 2015, 8, s189-s200.	1.2	56
58	Early Dynamics of Deep Blue XBT Probes. Journal of Atmospheric and Oceanic Technology, 2015, 32, 2253-2263.	1.3	20
59	An optimal XBTâ€based monitoring system for the <scp>S</scp>outh <scp>A</scp>tlantic meridional overturning circulation at 34Â°S. Journal of Geophysical Research: Oceans, 2015, 120, 161-181.	2.6	17
60	Variability of the Deepwater Horizon Surface Oil Spill Extent and Its Relationship to Varying Ocean Currents and Extreme Weather Conditions. The Reacting Atmosphere, 2015, , 1-22.	0.8	16
61	Measuring the Atlantic Meridional Overturning Circulation. Marine Technology Society Journal, 2015, 49, 167-177.	0.4	8
62	Oceanographic conditions in the Gulf of Mexico in July 2010, during the Deepwater Horizon oil spill. Continental Shelf Research, 2014, 77, 118-131.	1.8	28
63	Basinâ€Wide Oceanographic Array Bridges the South Atlantic. Eos, 2014, 95, 53-54.	0.1	36
64	Seasonal variations in the South Atlantic Meridional Overturning Circulation from observations and numerical models. Geophysical Research Letters, 2014, 41, 4611-4618.	4.0	28
65	Wind forced variability of the Antarctic Circumpolar Current south of Africa between 1993 and 2010. Journal of Geophysical Research: Oceans, 2014, 119, 1123-1145.	2.6	13
66	Ocean heat content for tropical cyclone intensity forecasting and its impact on storm surge. Natural Hazards, 2013, 66, 1481-1500.	3.4	98
67	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
68	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
69	Satellite Remote Sensing in Support of an Integrated Ocean Observing System. IEEE Geoscience and Remote Sensing Magazine, 2013, 1, 8-18.	9.6	35
70	Objective Detection of Oceanic Eddies and the Agulhas Leakage. Journal of Physical Oceanography, 2013, 43, 1426-1438.	1.7	124
71	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
72	Loop Current excursions and ring detachments during 1993â€“2009. International Journal of Remote Sensing, 2013, 34, 5042-5053.	2.9	29

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73	State of the Climate in 2012. Bulletin of the American Meteorological Society, 2013, 94, S1-S258.	3.3	129
74	Variability of the Atlantic offâ€equatorial eastward currents during 1993â€“2010 using a synthetic method. Journal of Geophysical Research: Oceans, 2013, 118, 3026-3045.	2.6	15
75	Validation of satellite-derived tropical cyclone heat potential with in situ observations in the North Indian Ocean. Remote Sensing Letters, 2012, 3, 615-620.	1.4	19
76	Varying mesoscale structures influence larval fish distribution in the northern Gulf of Mexico. Marine Ecology - Progress Series, 2012, 463, 245-257.	1.9	97
77	Importance of the assimilation of Argo float measurements on the Meridional Overturning Circulation in the South Atlantic. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	16
78	Observed low frequency variability of the Brazil Current front. Journal of Geophysical Research, 2011, 116, .	3.3	64
79	State of the Climate in 2010. Bulletin of the American Meteorological Society, 2011, 92, S1-S236.	3.3	135
80	Direct Evidence of a Changing Fall-Rate Bias in XBTs Manufactured during 1986â€“2008. Journal of Atmospheric and Oceanic Technology, 2011, 28, 1569-1578.	1.3	18
81	Identifying and Estimating Biases between XBT and Argo Observations Using Satellite Altimetry. Journal of Atmospheric and Oceanic Technology, 2010, 27, 226-240.	1.3	19
82	Surface Ocean Mixing Inferred from Different Multisatellite Altimetry Measurements. Journal of Physical Oceanography, 2010, 40, 2466-2480.	1.7	26
83	State of the Climate in 2009. Bulletin of the American Meteorological Society, 2010, 91, s1-s222.	3.3	121
84	The Ship of Opportunity Program. , 2010, , .		35
85	Progress and Challenges in Monitoring Ocean Temperature and Heat Content. , 2010, , .		2
86	Applications of Satellite-Derived Ocean Measurements to Tropical Cyclone Intensity Forecasting. Oceanography, 2009, 22, 190-197.	1.0	136
87	Interannual variations in the Atlantic meridional overturning circulation and its relationship with the net northward heat transport in the South Atlantic. Geophysical Research Letters, 2009, 36, .	4.0	67
88	State of the Climate in 2008. Bulletin of the American Meteorological Society, 2009, 90, S1-S196.	3.3	74
89	An Overview of Global Observing Systems Relevant to GODAE. Oceanography, 2009, 22, 22-33.	1.0	16
90	Transport and variability of the Antarctic Circumpolar Current south of Africa. Journal of Geophysical Research, 2008, 113, .	3.3	44

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91	Oceanic mesoscale eddies as revealed by Lagrangian coherent structures. Geophysical Research Letters, 2008, 35, .	4.0	140
92	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
93	State of the Climate in 2007. Bulletin of the American Meteorological Society, 2008, 89, S1-S179.	3.3	36
94	Investigation of Brazil Current rings in the confluence region. Journal of Geophysical Research, 2006, 111, .	3.3	31
95	State of the Climate in 2005. Bulletin of the American Meteorological Society, 2006, 87, s1-s102.	3.3	39
96	Investigation of the North Brazil Current retroflection and North Equatorial Countercurrent variability. Geophysical Research Letters, 2004, 31, n/a-n/a.	4.0	43
97	Ocean thermal structure monitoring could aid in the intensity forecast of tropical cyclones. Eos, 2003, 84, 573.	0.1	119
98	Synoptic study of warm rings in the North Brazil Current retroflection region using satellite altimetry. Elsevier Oceanography Series, 2003, , 335-356.	0.1	35
99	North Brazil Current rings and transport of southern waters in a high resolution numerical simulation of the North Atlantic. Elsevier Oceanography Series, 2003, , 375-409.	0.1	35
100	Comparison of hydrographic and altimeter based estimates of sea level height variability in the Atlantic Ocean. Elsevier Oceanography Series, 2003, , 23-48.	0.1	1
101	Planetary equatorial trapped waves in the Atlantic ocean from TOPEX/POSEIDON altimetry. Elsevier Oceanography Series, 2003, 68, 213-232.	0.1	6
102	Cross-gyre transport by North Brazil Current rings. Elsevier Oceanography Series, 2003, 68, 411-441.	0.1	50
103	Surface currents in the tropical Atlantic across high density XBT line AX08. Geophysical Research Letters, 2002, 29, 71-1-71-4.	4.0	8
104	A census of North Brazil Current Rings observed from TOPEX/POSEIDON altimetry: 1992-1998. Geophysical Research Letters, 2001, 28, 1-4.	4.0	103
105	Identification of the Kuroshio Extension, its bifurcation and northern branch from altimetry and hydrographic data during October 1992-August 1999: Spatial and temporal variability. Geophysical Research Letters, 2001, 28, 1759-1762.	4.0	17
106	Investigation of the Brazil Current front variability from altimeter data. Journal of Geophysical Research, 2001, 106, 31117-31128.	3.3	57
107	Transition regions and their role in the relationship between sea surface height and subsurface temperature structure in the Atlantic Ocean. Geophysical Research Letters, 2001, 28, 3943-3946.	4.0	29
108	Chapter 5 Combining altimeter observations and oceanographie data for ocean circulation and climate studies. Elsevier Oceanography Series, 2000, 63, 79-97.	0.1	12

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109	Effects of a Warm Oceanic Feature on Hurricane Opal. Monthly Weather Review, 2000, 128, 1366-1383.	1.4	611
110	Annual cycle of the Brazil-Malvinas confluence region in the National Center for Atmospheric Research Climate System Model. Journal of Geophysical Research, 2000, 105, 26167-26177.	3.3	50
111	Low-salinity pools at Barbados, West Indies: Their origin, frequency, and variability. Journal of Geophysical Research, 2000, 105, 19699-19708.	3.3	32
112	Three Agulhas rings observed during the Benguela Current Experiment. Journal of Geophysical Research, 1999, 104, 20971-20985.	3.3	61
113	Monitoring the upper southeastern Atlantic transports using altimeter data. Journal of Marine Research, 1997, 55, 453-481.	0.3	38
114	Agulhas ring dynamics from TOPEX/POSEIDON satellite altimeter data. Journal of Marine Research, 1997, 55, 861-883.	0.3	99
115	Dynamics of the Brazil-Malvinas Confluence based on inverted echo sounders and altimetry. Journal of Geophysical Research, 1996, 101, 16273-16289.	3.3	114
116	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 OceanogrÃ¡fico, 1995, 43, 101-110.	0.2	0
117	An investigation of sound ray dynamics in the ocean volume using an area preserving mapping. Wave Motion, 1991, 14, 93-99.	2.0	31
118	Weak chaos in an area-preserving mapping for sound ray propagation. Physics Letters, Section A: General, Atomic and Solid State Physics, 1991, 153, 181-185.	2.1	19
119	Chaos in Underwater Acoustics. , 1991, , 139-160.		4
120	Surface mixed layer temperature and layer depth in water off the Argentinian Coast. Journal of Geophysical Research, 1983, 88, 5987-5996.	3.3	5