# G J Goni

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/1001900/publications.pdf

Version: 2024-02-01

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|---|---|---|---|
| 120 papers | 5,560 citations | 94381 37 h-index | 88593 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. | 0.5 | 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. | 9.0 | 367 |
| 3 | Application of Oceanic Heat Content Estimation to Operational Forecasting of Recent Atlantic Category 5 Hurricanes. Weather and Forecasting, 2008, 23, 3-16. | 0.5 | 194 |
| 4 | State of the Climate in 2017. Bulletin of the American Meteorological Society, 2018, 99, Si-S310. | 1.7 | 160 |
| 5 | Oceanic mesoscale eddies as revealed by Lagrangian coherent structures. Geophysical Research Letters, 2008, 35, . | 1.5 | 140 |
| 6 | Applications of Satellite-Derived Ocean Measurements to Tropical Cyclone Intensity Forecasting. Oceanography, 2009, 22, 190-197. | 0.5 | 136 |
| 7 | State of the Climate in 2010. Bulletin of the American Meteorological Society, 2011, 92, S1-S236. | 1.7 | 135 |
| 8 | State of the Climate in 2012. Bulletin of the American Meteorological Society, 2013, 94, S1-S258. | 1.7 | 129 |
| 9 | Objective Detection of Oceanic Eddies and the Agulhas Leakage. Journal of Physical Oceanography, 2013, 43, 1426-1438. | 0.7 | 124 |
| 10 | Toward a Coordinated Global Observing System for Seagrasses and Marine Macroalgae. Frontiers in Marine Science, 2019, 6, . | 1.2 | 123 |
| 11 | State of the Climate in 2009. Bulletin of the American Meteorological Society, 2010, 91, s1-s222. | 1.7 | 121 |
| 12 | Atlantic Meridional Overturning Circulation: Observed Transport and Variability. Frontiers in Marine Science, 2019, 6, . | 1.2 | 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. | 1.5 | 103 |
| 16 | Simulating transport pathways of pelagic Sargassum from the Equatorial Atlantic into the Caribbean Sea. Progress in Oceanography, 2018, 165, 205-214. | 1.5 | 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. | 1.6 | 98 |

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|---|---|---|---|
| 19 | Varying mesoscale structures influence larval fish distribution in the northern Gulf of Mexico. Marine Ecology - Progress Series, 2012, 463, 245-257. | 0.9 | 97 |
| 20 | OceanGliders: A Component of the Integrated GOOS. Frontiers in Marine Science, 2019, 6, . | 1.2 | 83 |
| 21 | State of the Climate in 2008. Bulletin of the American Meteorological Society, 2009, 90, S1-S196. | 1.7 | 74 |
| 22 | XBT Science: Assessment of Instrumental Biases and Errors. Bulletin of the American Meteorological Society, 2016, 97, 924-933. | 1.7 | 72 |
| 23 | 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, . | 1.5 | 67 |
| 24 | What Caused the Accelerated Sea Level Changes Along the U.S. East Coast During 2010â€“2015?. Geophysical Research Letters, 2018, 45, 13,367. | 1.5 | 65 |
| 25 | Observed low frequency variability of the Brazil Current front. Journal of Geophysical Research, 2011, 116, . | 3.3 | 64 |
| 26 | Three Agulhas rings observed during the Benguela Current Experiment. Journal of Geophysical Research, 1999, 104, 20971-20985. | 3.3 | 61 |
| 27 | Investigation of the Brazil Current front variability from altimeter data. Journal of Geophysical Research, 2001, 106, 31117-31128. | 3.3 | 57 |
| 28 | The current status of the real-time in situ Global Ocean Observing System for operational oceanography. Journal of Operational Oceanography, 2015, 8, s189-s200. | 0.6 | 56 |
| 29 | Early emergence of anthropogenically forced heat waves in the western United States and Great Lakes. Nature Climate Change, 2018, 8, 414-420. | 8.1 | 52 |
| 30 | 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 |
| 31 | Cross-gyre transport by North Brazil Current rings. Elsevier Oceanography Series, 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. Geophysical Research Letters, 2015, 42, 7131-7138. | 1.5 | 49 |
| 33 | Temporal variability of the South Atlantic Meridional Overturning Circulation between 20Â°S and 35Â°S. Geophysical Research Letters, 2015, 42, 7655-7662. | 1.5 | 46 |
| 34 | Transport and variability of the Antarctic Circumpolar Current south of Africa. Journal of Geophysical Research, 2008, 113, . | 3.3 | 44 |
| 35 | Investigation of the North Brazil Current retroflection and North Equatorial Countercurrent variability. Geophysical Research Letters, 2004, 31, n/a-n/a. | 1.5 | 43 |
| 36 | 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. | 0.9 | 40 |

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|---|---|---|---|
| 37 | State of the Climate in 2005. Bulletin of the American Meteorological Society, 2006, 87, s1-s102. | 1.7 | 39 |
| 38 | Global Perspectives on Observing Ocean Boundary Current Systems. Frontiers in Marine Science, 2019, 6, . | 1.2 | 39 |
| 39 | Sustainable Observations of the AMOC: Methodology and Technology. Reviews of Geophysics, 2020, 58, e2019RG000654. | 9.0 | 39 |
| 40 | Improving transport predictions of pelagic Sargassum. Journal of Experimental Marine Biology and Ecology, 2020, 529, 151398. | 0.7 | 39 |
| 41 | Monitoring the upper southeastern Atlantic transports using altimeter data. Journal of Marine Research, 1997, 55, 453-481. | 0.3 | 38 |
| 42 | Decadal Modulations of Interhemispheric Global Atmospheric Circulations and Monsoons by the South Atlantic Meridional Overturning Circulation. Journal of Climate, 2016, 29, 1831-1851. | 1.2 | 38 |
| 43 | Slow Down of the Gulf Stream during 1993â€“2016. Scientific Reports, 2019, 9, 6672. | 1.6 | 37 |
| 44 | State of the Climate in 2007. Bulletin of the American Meteorological Society, 2008, 89, S1-S179. | 1.7 | 36 |
| 45 | Basinâ€Wide Oceanographic Array Bridges the South Atlantic. Eos, 2014, 95, 53-54. | 0.1 | 36 |
| 46 | Synoptic study of warm rings in the North Brazil Current retroflection region using satellite altimetry. Elsevier Oceanography Series, 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. Elsevier Oceanography Series, 2003, , 375-409. | 0.1 | 35 |
| 48 | Satellite Remote Sensing in Support of an Integrated Ocean Observing System. IEEE Geoscience and Remote Sensing Magazine, 2013, 1, 8-18. | 4.9 | 35 |
| 49 | The Ship of Opportunity Program. , 2010, , . | | 35 |
| 50 | Low-salinity pools at Barbados, West Indies: Their origin, frequency, and variability. Journal of Geophysical Research, 2000, 105, 19699-19708. | 3.3 | 32 |
| 51 | An investigation of sound ray dynamics in the ocean volume using an area preserving mapping. Wave Motion, 1991, 14, 93-99. | 1.0 | 31 |
| 52 | Investigation of Brazil Current rings in the confluence region. Journal of Geophysical Research, 2006, 111, . | 3.3 | 31 |
| 53 | Analysis of flight MH370 potential debris trajectories using ocean observations and numerical model results. Journal of Operational Oceanography, 2016, 9, 126-138. | 0.6 | 31 |
| 54 | 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, . | 1.2 | 31 |

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|---|---|---|---|
| 55 | Ocean Observations in Support of Studies and Forecasts of Tropical and Extratropical Cyclones. Frontiers in Marine Science, 2019, 6, . | 1.2 | 31 |
| 56 | 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. | 1.5 | 29 |
| 57 | Loop Current excursions and ring detachments during 1993â€“2009. International Journal of Remote Sensing, 2013, 34, 5042-5053. | 1.3 | 29 |
| 58 | Oceanographic conditions in the Gulf of Mexico in July 2010, during the Deepwater Horizon oil spill. Continental Shelf Research, 2014, 77, 118-131. | 0.9 | 28 |
| 59 | Seasonal variations in the South Atlantic Meridional Overturning Circulation from observations and numerical models. Geophysical Research Letters, 2014, 41, 4611-4618. | 1.5 | 28 |
| 60 | Surface Ocean Mixing Inferred from Different Multisatellite Altimetry Measurements. Journal of Physical Oceanography, 2010, 40, 2466-2480. | 0.7 | 26 |
| 61 | 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. | 1.0 | 25 |
| 62 | Autonomous and Lagrangian Ocean Observations for Atlantic Tropical Cyclone Studies and Forecasts. Oceanography, 2017, 30, 92-103. | 0.5 | 25 |
| 63 | Statistical Evidence for the Role of Southwestern Indian Ocean Heat Content in the Indian Summer Monsoon Rainfall. Scientific Reports, 2018, 8, 12092. | 1.6 | 25 |
| 64 | Observation and quantification of inertial effects on the drift of floating objects at the ocean surface. Physics of Fluids, 2020, 32, . | 1.6 | 25 |
| 65 | Early Dynamics of Deep Blue XBT Probes. Journal of Atmospheric and Oceanic Technology, 2015, 32, 2253-2263. | 0.5 | 20 |
| 66 | Impact of Assimilating Underwater Glider Data on Hurricane Gonzalo (2014) Forecasts. Weather and Forecasting, 2017, 32, 1143-1159. | 0.5 | 20 |
| 67 | 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. | 0.9 | 19 |
| 68 | Identifying and Estimating Biases between XBT and Argo Observations Using Satellite Altimetry. Journal of Atmospheric and Oceanic Technology, 2010, 27, 226-240. | 0.5 | 19 |
| 69 | Validation of satellite-derived tropical cyclone heat potential with in situ observations in the North Indian Ocean. Remote Sensing Letters, 2012, 3, 615-620. | 0.6 | 19 |
| 70 | 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. | 0.9 | 19 |
| 71 | Direct Evidence of a Changing Fall-Rate Bias in XBTs Manufactured during 1986â€“2008. Journal of Atmospheric and Oceanic Technology, 2011, 28, 1569-1578. | 0.5 | 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. Geophysical Research Letters, 2001, 28, 1759-1762. | 1.5 | 17 |

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|---|---|---|---|
| 73 | 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. | 1.0 | 17 |
| 74 | Clustering of Marineâ€Debrisâ€•and Sargassumâ€Like Drifters Explained by Inertial Particle Dynamics. Geophysical Research Letters, 2020, 47, e2020GL089874. | 1.5 | 17 |
| 75 | 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. | 1.5 | 16 |
| 76 | A reconstructed South Atlantic Meridional Overturning Circulation time series since 1870. Geophysical Research Letters, 2017, 44, 3309-3318. | 1.5 | 16 |
| 77 | East Asian Monsoon as a Modulator of U.S. Great Plains Heat Waves. Journal of Geophysical Research D: Atmospheres, 2019, 124, 6342-6358. | 1.2 | 16 |
| 78 | 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 |
| 79 | An Overview of Global Observing Systems Relevant to GODAE. Oceanography, 2009, 22, 22-33. | 0.5 | 16 |
| 80 | Variability of the Atlantic offâ€equatorial eastward currents during 1993â€“2010 using a synthetic method. Journal of Geophysical Research: Oceans, 2013, 118, 3026-3045. | 1.0 | 15 |
| 81 | Relationship between ocean mean temperatures and Indian summer monsoon rainfall. Atmospheric Science Letters, 2015, 16, 408-413. | 0.8 | 15 |
| 82 | Heat content of the Arabian Sea Mini Warm Pool is increasing. Atmospheric Science Letters, 2016, 17, 39-42. | 0.8 | 15 |
| 83 | An Updated Estimate of Salinity for the Atlantic Ocean Sector Using Temperatureâ€“Salinity Relationships. Journal of Atmospheric and Oceanic Technology, 2018, 35, 1771-1784. | 0.5 | 14 |
| 84 | A Framework for the Development, Design and Implementation of a Sustained Arctic Ocean Observing System. Frontiers in Marine Science, 2019, 6, . | 1.2 | 14 |
| 85 | Monitoring pelagic Sargassum inundation potential for coastal communities. Journal of Operational Oceanography, 2023, 16, 48-59. | 0.6 | 14 |
| 86 | Wind forced variability of the Antarctic Circumpolar Current south of Africa between 1993 and 2010. Journal of Geophysical Research: Oceans, 2014, 119, 1123-1145. | 1.0 | 13 |
| 87 | Carriers of Sargassum and mechanism for coastal inundation in the Caribbean Sea. Physics of Fluids, 2022, 34, . | 1.6 | 13 |
| 88 | Chapter 5 Combining altimeter observations and oceanographie data for ocean circulation and climate studies. Elsevier Oceanography Series, 2000, 63, 79-97. | 0.1 | 12 |
| 89 | 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. | 1.0 | 12 |
| 90 | Observations of Near-Surface Salinity and Temperature Structure with Dual-Sensor Lagrangian Drifters During SPURS-2. Oceanography, 2019, 32, 66-75. | 0.5 | 12 |

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|---|---|---|---|
| 91 | Global Oceans. Bulletin of the American Meteorological Society, 2020, 101, S129-S184. | 1.7 | 12 |
| 92 | The impact of historical biases on the XBTâ€derived meridional overturning circulation estimates at 34Â°S. Geophysical Research Letters, 2015, 42, 1848-1855. | 1.5 | 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. | 0.5 | 11 |
| 94 | Global Oceans. Bulletin of the American Meteorological Society, 2021, 102, S143-S198. | 1.7 | 11 |
| 95 | Reducing Biases in XBT Measurements by Including Discrete Information from Pressure Switches. Journal of Atmospheric and Oceanic Technology, 2013, 30, 810-824. | 0.5 | 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. | 1.0 | 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. | 3.7 | 9 |
| 98 | Surface currents in the tropical Atlantic across high density XBT line AX08. Geophysical Research Letters, 2002, 29, 71-1-71-4. | 1.5 | 8 |
| 99 | Inferring Florida Current Volume Transport From Satellite Altimetry. Journal of Geophysical Research: Oceans, 2020, 125, e2020JC016763. | 1.0 | 8 |
| 100 | Measuring the Atlantic Meridional Overturning Circulation. Marine Technology Society Journal, 2015, 49, 167-177. | 0.3 | 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. | 0.6 | 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. | 0.5 | 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. | 1.0 | 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. | 0.5 | 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. | 0.5 | 5 |
| 108 | SURATLANT: a 1993â€“2017 surface sampling in the central part of the North Atlantic subpolar gyre. Earth System Science Data, 2018, 10, 1901-1924. | 3.7 | 5 |

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| 109 | Treading Water: Tools to Help US Coastal Communities Plan for Sea Level Rise Impacts. Frontiers in Marine Science, 2019, 6, . | 1.2 | 4 |
| 110 | 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. | 1.5 | 4 |
| 111 | Chaos in Underwater Acoustics. , 1991, , 139-160. | | 4 |
| 112 | The Tropics. Bulletin of the American Meteorological Society, 2020, 101, S185-S238. | 1.7 | 4 |
| 113 | Remote Impact of the Equatorial Pacific on Florida Current Transport. Geophysical Research Letters, 2022, 49, . | 1.5 | 4 |
| 114 | The Impact of Improved Thermistor Calibration on the Expendable Bathythermograph Profile Data. Journal of Atmospheric and Oceanic Technology, 2017, 34, 1947-1961. | 0.5 | 3 |
| 115 | What Caused the Largeâ€Scale Heat Deficit in the Subtropical South Atlantic Ocean During 2009â€“2012?. Geophysical Research Letters, 2020, 47, e2020GL088206. | 1.5 | 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. Elsevier Oceanography Series, 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. Bulletin of the American Meteorological Society, 2021, 102, S199-S262. | 1.7 | 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. Boletim Do Instituto OceanogrÃ¡fico, 1995, 43, 101-110. | 0.2 | 0 |