

# Irma ChacÃ³n

## List of Publications by Year in descending order

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Version: 2024-02-01

50  
papers

1,468  
citations

361296

20  
h-index

360920

35  
g-index

51  
all docs

51  
docs citations

51  
times ranked

1214  
citing authors

#	ARTICLE	IF	CITATIONS
1	Flow structure and transport in the Yucatan Channel. <i>Geophysical Research Letters</i> , 2002, 29, 10-1.	1.5	158
2	Water mass exchange in the Gulf of Cadiz. <i>Deep-sea Research Part A, Oceanographic Research Papers</i> , 1991, 38, S465-S503.	1.6	115
3	The role of the interface in exchange through the Strait of Gibraltar. <i>Journal of Geophysical Research</i> , 1995, 100, 10755.	3.3	98
4	The Ventilation of the Deep Gulf of Mexico. <i>Journal of Physical Oceanography</i> , 2005, 35, 1763-1781.	0.7	90
5	The potential vorticity flux through the Yucatan Channel and the Loop Current in the Gulf of Mexico. <i>Geophysical Research Letters</i> , 2002, 29, 16-1-16-4.	1.5	79
6	Deep flows in the Yucatan Channel and their relation to changes in the Loop Current extension. <i>Journal of Geophysical Research</i> , 2002, 107, 26-1-26-7.	3.3	74
7	Flow past a sphere moving vertically in a stratified diffusive fluid. <i>Journal of Fluid Mechanics</i> , 2000, 417, 211-236.	1.4	73
8	Geostrophy via potential vorticity inversion in the Yucatan Channel. <i>Journal of Marine Research</i> , 2001, 59, 725-747.	0.3	73
9	Analysis of flow variability in the Yucatan Channel. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	54
10	Loop Current Frontal Eddies: Formation along the Campeche Bank and Impact of Coastally Trapped Waves. <i>Journal of Physical Oceanography</i> , 2016, 46, 3339-3363.	0.7	42
11	Structure and variability of the Yucatan and loop currents along the slope and shelf break of the Yucatan channel and Campeche bank. <i>Dynamics of Atmospheres and Oceans</i> , 2016, 76, 217-239.	0.7	39
12	Circulation along the Mexican Caribbean coast. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	35
13	The Vertical Structure of a Loop Current Eddy. <i>Journal of Geophysical Research: Oceans</i> , 2018, 123, 6070-6090.	1.0	35
14	The Flow through the Gulf of Mexico. <i>Journal of Physical Oceanography</i> , 2019, 49, 1381-1401.	0.7	35
15	Diel and lunar cycles of vertical migration extending to below 1000 m in the ocean and the vertical connectivity of depth-tiered populations. <i>Limnology and Oceanography</i> , 2013, 58, 1207-1214.	1.6	33
16	Near-Surface and Deep Circulation Coupling in the Western Gulf of Mexico. <i>Journal of Physical Oceanography</i> , 2018, 48, 145-161.	0.7	31
17	Impact of Caribbean cyclones on the detachment of Loop Current anticyclones. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	30
18	A note on boundary conditions for salt and freshwater balances. <i>Ocean Modelling</i> , 1999, 1, 111-118.	1.0	26

#	ARTICLE	IF	CITATIONS
19	Subinertial flows and transports in Cozumel Channel. <i>Journal of Geophysical Research</i> , 2003, 108, n/a-n/a.	3.3	26
20	Interannual variability in the Yucatan Channel flow. <i>Geophysical Research Letters</i> , 2015, 42, 1496-1503.	1.5	26
21	Yucatan Current variability through the Cozumel and Yucatan channels. <i>Ciencias Marinas</i> , 2011, 37, 471-492.	0.4	26
22	Intrathermocline Eddies Embedded Within an Anticyclonic Vortex Ring. <i>Geophysical Research Letters</i> , 2018, 45, 7624-7633.	1.5	25
23	Upper-Layer Circulation in the Approaches to Yucatan Channel. <i>Geophysical Monograph Series</i> , 2013, , 57-69.	0.1	20
24	Heat Content Anomaly and Decay of Warm-Core Rings: the Case of the Gulf of Mexico. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL085600.	1.5	17
25	Trapping of the near-inertial wave wakes of two consecutive hurricanes in the Loop Current. <i>Journal of Geophysical Research: Oceans</i> , 2016, 121, 7431-7454.	1.0	16
26	Seasonal Variability of the Transport through the Yucatan Channel from Observations. <i>Journal of Physical Oceanography</i> , 2020, 50, 343-360.	0.7	16
27	Vertical Velocity and Vertical Heat Flux Observed within Loop Current Eddies in the Central Gulf of Mexico. <i>Journal of Physical Oceanography</i> , 2008, 38, 2461-2481.	0.7	15
28	Deep Currents in the Bay of Campeche. <i>Journal of Physical Oceanography</i> , 2011, 41, 1902-1920.	0.7	14
29	Observations of intermittent deep currents and eddies in the Gulf of Mexico. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	14
30	Ageostrophic fluctuations in Cozumel Channel. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	13
31	Maintenance of Coastal Surface Blooms by Surface Temperature Stratification and Wind Drift. <i>PLoS ONE</i> , 2013, 8, e58958.	1.1	12
32	Observations of Layering under a Warm-Core Ring in the Gulf of Mexico. <i>Journal of Physical Oceanography</i> , 2019, 49, 3145-3162.	0.7	12
33	Pitfalls in the estimation of wind wave directional spectra by variational principles. <i>Applied Ocean Research</i> , 1990, 12, 180-187.	1.8	11
34	Mooring observations of the near-inertial wave wake of Hurricane Ida (2009). <i>Dynamics of Atmospheres and Oceans</i> , 2016, 76, 325-344.	0.7	11
35	Canek: Measuring Transport in the Yucatan Channel. , 2003, , 275-286.		11
36	Inhomogeneous eddies. <i>Journal of Geophysical Research</i> , 1998, 103, 24869-24880.	3.3	7

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37	Numerical simulation of flow past a sphere in vertical motion within a stratified fluid. <i>Journal of Computational and Applied Mathematics</i> , 1999, 103, 67-76.	1.1	7
38	Initial flow field of stratified flow past an impulsively started sphere. <i>Applied Numerical Mathematics</i> , 2002, 40, 235-244.	1.2	5
39	Topographic effects on the dynamics of gravity currents in a rotating system. <i>Dynamics of Atmospheres and Oceans</i> , 2005, 39, 227-249.	0.7	5
40	Vertical Vorticity Balance in Meanders Downstream the Agulhas Retroflexion. <i>Journal of Physical Oceanography</i> , 2007, 37, 1740-1744.	0.7	5
41	Inorganic carbon and biological oceanography above a shallow oxygen minimum in the entrance to the Gulf of California in the Mexican Pacific. <i>Limnology and Oceanography</i> , 2010, 55, 481-491.	1.6	5
42	Two Limiting Types of Oceanic Finestructures. <i>Journal of Physical Oceanography</i> , 1987, 17, 1539-1545.	0.7	4
43	A practical determination of CTD platinum resistance thermometer response time, and its use to correct salinity bias and spikes. <i>Deep-sea Research Part A, Oceanographic Research Papers</i> , 1989, 36, 139-148.	1.6	4
44	Horizontal convective rolls in a tilted square duct of conductive and insulating walls. <i>Computers and Fluids</i> , 1997, 26, 1-17.	1.3	4
45	Free-rising, tethered CTD profiler: increased vertical resolution and near surface profiling. <i>Limnology and Oceanography: Methods</i> , 2012, 10, 475-482.	1.0	4
46	Hydrography and geostrophic currents in the Northern Gulf of California during the 1997-1998 El Niño. <i>Continental Shelf Research</i> , 2006, 26, 1154-1170.	0.9	3
47	Lateral Friction in Reduced-Gravity Models: Parameterizations Consistent with Energy Dissipation and Conservation of Angular Momentum. <i>Journal of Physical Oceanography</i> , 2011, 41, 1894-1901.	0.7	3
48	Eddy viscosity from bottom Ekman veering profiles. <i>Continental Shelf Research</i> , 2020, 204, 104170.	0.9	3
49	Dispersion of particles in two-dimensional circular vortices. <i>Physics of Fluids</i> , 2020, 32, 037101.	1.6	1
50	Near-surface temperature gradient in a coastal upwelling regime. <i>Journal of Geophysical Research: Oceans</i> , 2014, 119, 4972-4982.	1.0	0