Irma ChacÃ³n

List of Publications by Year
in descending order

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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	Seasonal Variability of the Transport through the Yucatan Channel from Observations. Journal of Physical Oceanography, 2020, 50, 343-360.	0.7	16
2	Eddy viscosity from bottom Ekman veering profiles. Continental Shelf Research, 2020, 204, 104170.	0.9	3
3	Dispersion of particles in two-dimensional circular vortices. Physics of Fluids, 2020, 32, 037101.	1.6	1
4	Heat Content Anomaly and Decay of Warmâ€Core Rings: the Case of the Gulf of Mexico. Geophysical Research Letters, 2020, 47, e2019GL085600.	1.5	17
5	Observations of Layering under a Warm-Core Ring in the Gulf of Mexico. Journal of Physical Oceanography, 2019, 49, 3145-3162.	0.7	12
6	The Flow through the Gulf of Mexico. Journal of Physical Oceanography, 2019, 49, 1381-1401.	0.7	35
7	Near-Surface and Deep Circulation Coupling in the Western Gulf of Mexico. Journal of Physical Oceanography, 2018, 48, 145-161.	0.7	31
8	The Vertical Structure of a Loop Current Eddy. Journal of Geophysical Research: Oceans, 2018, 123, 6070-6090.	1.0	35
9	Intrathermocline Eddies Embedded Within an Anticyclonic Vortex Ring. Geophysical Research Letters, 2018, 45, 7624-7633.	1.5	25
10	Trapping of the nearâ€inertial wave wakes of two consecutive hurricanes in the <scp>L</scp>oop <scp>C</scp>urrent. Journal of Geophysical Research: Oceans, 2016, 121, 7431-7454.	1.0	16
11	Structure and variability of the Yucatan and loop currents along the slope and shelf break of the Yucatan channel and Campeche bank. Dynamics of Atmospheres and Oceans, 2016, 76, 217-239.	0.7	39
12	Mooring observations of the near-inertial wave wake of Hurricane Ida (2009). Dynamics of Atmospheres and Oceans, 2016, 76, 325-344.	0.7	11
13	Loop Current Frontal Eddies: Formation along the Campeche Bank and Impact of Coastally Trapped Waves. Journal of Physical Oceanography, 2016, 46, 3339-3363.	0.7	42
14	Interannual variability in the Yucatan Channel flow. Geophysical Research Letters, 2015, 42, 1496-1503.	1.5	26
15	Nearâ€surface temperature gradient in a coastal upwelling regime. Journal of Geophysical Research: Oceans, 2014, 119, 4972-4982.	1.0	0
16	Upper-Layer Circulation in the Approaches to Yucatan Channel. Geophysical Monograph Series, 2013, , 57-69.	0.1	20
17	Diel and lunar cycles of vertical migration extending to below 1000 m in the ocean and the vertical connectivity of depthâ€tiered populations. Limnology and Oceanography, 2013, 58, 1207-1214.	1.6	33
18	Maintenance of Coastal Surface Blooms by Surface Temperature Stratification and Wind Drift. PLoS ONE, 2013, 8, e58958.	1.1	12

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19	Free-rising, tethered CTD profiler: increased vertical resolution and near surface profiling. Limnology and Oceanography: Methods, 2012, 10, 475-482.	1.0	4
20	Impact of Caribbean cyclones on the detachment of Loop Current anticyclones. Journal of Geophysical Research, 2012, 117, .	3.3	30
21	Observations of intermittent deep currents and eddies in the Gulf of Mexico. Journal of Geophysical Research, 2012, 117, .	3.3	14
22	Deep Currents in the Bay of Campeche. Journal of Physical Oceanography, 2011, 41, 1902-1920.	0.7	14
23	Lateral Friction in Reduced-Gravity Models: Parameterizations Consistent with Energy Dissipation and Conservation of Angular Momentum. Journal of Physical Oceanography, 2011, 41, 1894-1901.	0.7	3
24	Yucatan Current variability through the Cozumel and Yucatan channels. Ciencias Marinas, 2011, 37, 471-492.	0.4	26
25	Inorganic carbon and biological oceanography above a shallow oxygen minimum in the entrance to the Gulf of California in the Mexican Pacific. Limnology and Oceanography, 2010, 55, 481-491.	1.6	5
26	Vertical Velocity and Vertical Heat Flux Observed within Loop Current Eddies in the Central Gulf of Mexico. Journal of Physical Oceanography, 2008, 38, 2461-2481.	0.7	15
27	Vertical Vorticity Balance in Meanders Downstream the Agulhas Retroflection. Journal of Physical Oceanography, 2007, 37, 1740-1744.	0.7	5
28	Circulation along the Mexican Caribbean coast. Journal of Geophysical Research, 2006, 111, .	3.3	35
29	Hydrography and geostrophic currents in the Northern Gulf of California during the 1997â€“1998 El NiÃ±o. Continental Shelf Research, 2006, 26, 1154-1170.	0.9	3
30	The Ventilation of the Deep Gulf of Mexico. Journal of Physical Oceanography, 2005, 35, 1763-1781.	0.7	90
31	Topographic effects on the dynamics of gravity currents in a rotating system. Dynamics of Atmospheres and Oceans, 2005, 39, 227-249.	0.7	5
32	Ageostrophic fluctuations in Cozumel Channel. Journal of Geophysical Research, 2005, 110, .	3.3	13
33	Subinertial flows and transports in Cozumel Channel. Journal of Geophysical Research, 2003, 108, n/a-n/a.	3.3	26
34	Analysis of flow variability in the Yucatan Channel. Journal of Geophysical Research, 2003, 108, .	3.3	54
35	Canek: Measuring Transport in the Yucatan Channel. , 2003, , 275-286.		11
36	Deep flows in the Yucatan Channel and their relation to changes in the Loop Current extension. Journal of Geophysical Research, 2002, 107, 26-1-26-7.	3.3	74

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37	The potential vorticity flux through the Yucatan Channel and the Loop Current in the Gulf of Mexico. Geophysical Research Letters, 2002, 29, 16-1-16-4.	1.5	79
38	Flow structure and transport in the Yucatan Channel. Geophysical Research Letters, 2002, 29, 10-1.	1.5	158
39	Initial flow field of stratified flow past an impulsively started sphere. Applied Numerical Mathematics, 2002, 40, 235-244.	1.2	5
40	Geostrophy via potential vorticity inversion in the Yucatan Channel. Journal of Marine Research, 2001, 59, 725-747.	0.3	73
41	Flow past a sphere moving vertically in a stratified diffusive fluid. Journal of Fluid Mechanics, 2000, 417, 211-236.	1.4	73
42	Numerical simulation of flow past a sphere in vertical motion within a stratified fluid. Journal of Computational and Applied Mathematics, 1999, 103, 67-76.	1.1	7
43	A note on boundary conditions for salt and freshwater balances. Ocean Modelling, 1999, 1, 111-118.	1.0	26
44	Inhomogeneous rodons. Journal of Geophysical Research, 1998, 103, 24869-24880.	3.3	7
45	Horizontal convective rolls in a tilted square duct of conductive and insulating walls. Computers and Fluids, 1997, 26, 1-17.	1.3	4
46	The role of the interface in exchange through the Strait of Gibraltar. Journal of Geophysical Research, 1995, 100, 10755.	3.3	98
47	Water mass exchange in the Gulf of Cadiz. Deep-sea Research Part A, Oceanographic Research Papers, 1991, 38, S465-S503.	1.6	115
48	Pitfalls in the estimation of wind wave directional spectra by variational principles. Applied Ocean Research, 1990, 12, 180-187.	1.8	11
49	A practical determination of CTD platinum resistance thermometer response time, and its use to correct salinity bias and spikes. Deep-sea Research Part A, Oceanographic Research Papers, 1989, 36, 139-148.	1.6	4
50	Two Limiting Types of Oceanic Finestructures. Journal of Physical Oceanography, 1987, 17, 1539-1545.	0.7	4