

Julio Sheinbaum

List of Publications by Year in descending order

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68
papers

1,959
citations

236833

25
h-index

315616

38
g-index

70
all docs

70
docs citations

70
times ranked

1573
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	On the circulation in the Puerto Morelos fringing reef lagoon. <i>Coral Reefs</i> , 2007, 26, 149-163.	0.9	109
3	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
4	Geostrophy via potential vorticity inversion in the Yucatan Channel. <i>Journal of Marine Research</i> , 2001, 59, 725-747.	0.3	73
5	Yucatan Channel flow: Observations versus CLIPPER ATL6 and MERCATOR PAM models. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	64
6	Seasonal heat balance in the upper 100 m of the equatorial Atlantic Ocean. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	58
7	Data assimilation in ocean models. <i>Reports on Progress in Physics</i> , 1996, 59, 1209-1266.	8.1	57
8	The mesoscale variability in the Caribbean Sea. Part I: Simulations and characteristics with an embedded model. <i>Ocean Modelling</i> , 2008, 23, 82-101.	1.0	54
9	Direct observations of the upper layer circulation in the southern Gulf of Mexico. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2013, 85, 182-194.	0.6	49
10	A Loop Current experiment: Field and remote measurements. <i>Dynamics of Atmospheres and Oceans</i> , 2016, 76, 156-173.	0.7	46
11	Lagrangian dynamical geography of the Gulf of Mexico. <i>Scientific Reports</i> , 2017, 7, 7021.	1.6	46
12	Histone metabolic pathways and chromatin assembly factors as proliferation markers. <i>Cancer Letters</i> , 2005, 220, 1-9.	3.2	45
13	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
14	The mesoscale variability in the Caribbean Sea. Part II: Energy sources. <i>Ocean Modelling</i> , 2009, 26, 226-239.	1.0	39
15	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
16	Temporal variability of chlorophyll distribution in the Gulf of Mexico: bio-optical data from profiling floats. <i>Biogeosciences</i> , 2017, 14, 5647-5662.	1.3	39
17	Partitioning of the Open Waters of the Gulf of Mexico Based on the Seasonal and Interannual Variability of Chlorophyll Concentration. <i>Journal of Geophysical Research: Oceans</i> , 2018, 123, 2592-2614.	1.0	38
18	Wind-driven coastal upwelling and westward circulation in the Yucatan shelf. <i>Continental Shelf Research</i> , 2016, 118, 63-76.	0.9	37

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19	Seasonal and Interannual Modulation of the Eddy Kinetic Energy in the Caribbean Sea. <i>Journal of Physical Oceanography</i> , 2012, 42, 2041-2055.	0.7	36
20	Circulation along the Mexican Caribbean coast. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	35
21	The Flow through the Gulf of Mexico. <i>Journal of Physical Oceanography</i> , 2019, 49, 1381-1401.	0.7	35
22	Variational Assimilation of XBT Data. Part 1. <i>Journal of Physical Oceanography</i> , 1990, 20, 672-688.	0.7	34
23	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
24	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
25	Impact of Caribbean cyclones on the detachment of Loop Current anticyclones. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	30
26	Artificial modifications of the coast in response to the Deepwater Horizon oil spill: quick solutions or long-term liabilities?. <i>Frontiers in Ecology and the Environment</i> , 2012, 10, 44-49.	1.9	30
27	Seasonal Modes of Surface Cooling in the Gulf of Guinea. <i>Journal of Physical Oceanography</i> , 2011, 41, 1408-1416.	0.7	29
28	Variational Assimilation of XBT Data. Part II. Sensitivity Studies and Use of Smoothing Constraints. <i>Journal of Physical Oceanography</i> , 1990, 20, 689-704.	0.7	28
29	Persistent Lagrangian Transport Patterns in the Northwestern Gulf of Mexico. <i>Journal of Physical Oceanography</i> , 2019, 49, 353-367.	0.7	28
30	Surface Relative Dispersion in the Southwestern Gulf of Mexico. <i>Journal of Physical Oceanography</i> , 2017, 47, 387-403.	0.7	27
31	Interannual variability in the Yucatan Channel flow. <i>Geophysical Research Letters</i> , 2015, 42, 1496-1503.	1.5	26
32	Yucatan Current variability through the Cozumel and Yucatan channels. <i>Ciencias Marinas</i> , 2011, 37, 471-492.	0.4	26
33	Variability and Dynamics of the Yucatan Upwelling: High-Resolution Simulations. <i>Journal of Geophysical Research: Oceans</i> , 2018, 123, 1251-1262.	1.0	23
34	Lagrangian Geography of the Deep Gulf of Mexico. <i>Journal of Physical Oceanography</i> , 2019, 49, 269-290.	0.7	22
35	Shortcut for constructing any Lagrangian from its equations of motion. <i>Physical Review D</i> , 1983, 28, 1333-1336.	1.6	21
36	Upper-Layer Circulation in the Approaches to Yucatan Channel. <i>Geophysical Monograph Series</i> , 2013, , 57-69.	0.1	20

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37	Seasonal variability of saltwater intrusion at a point-source submarine groundwater discharge. <i>Limnology and Oceanography</i> , 2016, 61, 1245-1258.	1.6	18
38	Evolution of the riverine nutrient export to the Tropical Atlantic over the last 15 years: is there a link with Sargassum proliferation?. <i>Environmental Research Letters</i> , 2021, 16, 034042.	2.2	18
39	A NEMO-based model of Sargassum distribution in the tropical Atlantic: description of the model and sensitivity analysis (NEMO-Sarg1.0). <i>Geoscientific Model Development</i> , 2021, 14, 4069-4086.	1.3	18
40	Sensitivity of Loop Current metrics and eddy detachments to different model configurations: The impact of topography and Caribbean perturbations. <i>Atmosfera</i> , 0, , .	0.3	17
41	Influence of mesoscale eddies on cross-shelf exchange in the western Gulf of Mexico. <i>Continental Shelf Research</i> , 2020, 209, 104243.	0.9	17
42	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
43	Heat Balance and Eddies in the Caribbean Upwelling System. <i>Journal of Physical Oceanography</i> , 2013, 43, 1004-1014.	0.7	16
44	A Lagrangian approach to the Loop Current eddy separation. <i>Nonlinear Processes in Geophysics</i> , 2013, 20, 85-96.	0.6	16
45	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
46	Seasonal Variability of the Transport through the Yucatan Channel from Observations. <i>Journal of Physical Oceanography</i> , 2020, 50, 343-360.	0.7	16
47	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
48	Energetics of the Deep Gulf of Mexico. <i>Journal of Physical Oceanography</i> , 2020, 50, 1655-1675.	0.7	15
49	Deep Currents in the Bay of Campeche. <i>Journal of Physical Oceanography</i> , 2011, 41, 1902-1920.	0.7	14
50	Observations of intermittent deep currents and eddies in the Gulf of Mexico. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	14
51	Dissolved inorganic nitrogen and particulate organic nitrogen budget in the Yucatan shelf: driving mechanisms through a physical-biogeochemical coupled model. <i>Biogeosciences</i> , 2020, 17, 1087-1111.	1.3	14
52	Ageostrophic fluctuations in Cozumel Channel. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	13
53	Sea surface temperature influence on a winter cold front position and propagation: air-sea interactions of the Nortes winds in the Gulf of Mexico. <i>Atmospheric Science Letters</i> , 2016, 17, 302-307.	0.8	13
54	Assessing the exposure risk of large pelagic fish to oil spills scenarios in the deep waters of the Gulf of Mexico. <i>Marine Pollution Bulletin</i> , 2022, 176, 113434.	2.3	12

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55	Variational assimilation of simulated acoustic tomography data and point observations: A comparative study. <i>Journal of Geophysical Research</i> , 1995, 100, 20745.	3.3	11
56	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
57	Do Loop Current eddies stimulate productivity in the Gulf of Mexico?. <i>Biogeosciences</i> , 2021, 18, 4281-4303.	1.3	10
58	Northwest Africa upwelling and the Atlantic climate variability. <i>Geophysical Research Letters</i> , 2005, 32, .	1.5	9
59	Elementary properties of the enstrophy and strain fields in confined two-dimensional flows. <i>European Journal of Mechanics, B/Fluids</i> , 2008, 27, 54-61.	1.2	9
60	Inhomogeneous rodons. <i>Journal of Geophysical Research</i> , 1998, 103, 24869-24880.	3.3	7
61	Point source dispersion of surface drifters in the southern Gulf of Mexico. <i>Environmental Research Letters</i> , 2017, 12, 024006.	2.2	7
62	Tidal currents in the Yucatan Channel. <i>Geofisica International</i> , 2007, 46, 199-209.	0.2	7
63	Deep-Water Warming in the Gulf of Mexico from 2003 to 2019. <i>Journal of Physical Oceanography</i> , 2021, 51, 1021-1035.	0.7	6
64	Diel, lunar and seasonal vertical migration in the deep western Gulf of Mexico evidenced from a long-term data series of acoustic backscatter. <i>Progress in Oceanography</i> , 2021, 195, 102562.	1.5	5
65	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
66	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
67	Single-particle statistics in the southern Gulf of Mexico. <i>Geofisica International</i> , 2018, 57, .	0.2	3
68	Ocean currents and coastal exposure to offshore releases of passively transported material in the Gulf of Mexico. <i>Environmental Research Communications</i> , 2019, 1, 081006.	0.9	0