Yves G Morel

List of Publications by Year
in descending order

51 papers	1,575 citations	257450 24 h-index	315739 38 g-index
53 all docs	53 docs citations	53 times ranked	1542 citing authors

#	Article	IF	Citations
1	Loop Current Ring Shedding: The Formation of Cyclones and the Effect of Topography. Journal of Physical Oceanography, 2006, 36, 569-591.	1.7	87
2	Evolution of Isolated Interior Vortices in the Ocean. Journal of Physical Oceanography, 1997, 27, 727-748.	1.7	77
3	Meddy coupling with a deep cyclone in the Gulf of Cadiz. Journal of Marine Systems, 2002, 32, 13-42.	2.1	77
4	Multipolar vortices in two-dimensional incompressible flows. Journal of Fluid Mechanics, 1994, 267, 23-51.	3.4	76
5	Simulating the dynamics and intensification of cyclonic Loop Current Frontal Eddies in the Gulf of Mexico. Journal of Geophysical Research, 2012, 117, .	3.3	76
6	Dynamics and Evolution of a Northern Meddy. Journal of Physical Oceanography, 2002, 32, 55-79.	1.7	74
7	Surface layer circulation derived from Lagrangian drifters in the Bay of Biscay. Journal of Marine Systems, 2013, 109-110, S60-S76.	2.1	74
8	On the influence of Mediterranean Water on the Central Waters of the North Atlantic Ocean. Deep-Sea Research Part I: Oceanographic Research Papers, 2001, 48, 347-381.	1.4	72
9	Instability of the Mediterranean Water undercurrents southwest of Portugal: effects of baroclinicity and of topography. Oceanologica Acta: European Journal of Oceanology - Revue Europeene De Oceanologie, 2000, 23, 551-573.	0.7	64
10	Erosion of a Surface Vortex by a Seamount. Journal of Physical Oceanography, 2003, 33, 1664-1679.	1.7	64
11	Surface mixing and biological activity in the four Eastern Boundary Upwelling Systems. Nonlinear Processes in Geophysics, 2009, 16, 557-568.	1.3	64
12	An Index to Distinguish Surface- and Subsurface-Intensified Vortices from Surface Observations. Journal of Physical Oceanography, 2016, 46, 2529-2552.	1.7	61
13	Effects of Isopycnal and Diapycnal Mixing on the Stability of Oceanic Currents. Journal of Physical Oceanography, 2001, 31, 2280-2296.	1.7	39
14	Real-time tracking of a Galician Meddy. Geophysical Research Letters, 1999, 26, 1877-1880.	4.0	37
15	Influence of a Strong Bottom Slope on the Evolution of a Surface-Intensified Vortex. Journal of Physical Oceanography, 1999, 29, 911-924.	1.7	34
16	Erosion of a Surface Vortex by a Seamount on the Î² Plane. Journal of Physical Oceanography, 2005, 35, 2012-2030.	1.7	34
17	Interaction between an eddy and a zonal jet. Dynamics of Atmospheres and Oceans, 2003, 36, 247-270.	1.8	32
18	Thermal Mass Correction for the Evaluation of Salinity. Journal of Atmospheric and Oceanic Technology, 2009, 26, 665-672.	1.3	32

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19	The Net Advective Effect of a Vertically Sheared Current on a Coherent Vortex. Journal of Physical Oceanography, 2001, 31, 2210-2225.	1.7	31
20	Interaction between an eddy and a zonal jet. Dynamics of Atmospheres and Oceans, 2003, 36, 271-296.	1.8	29
21	Intense vortex motion in a stratified fluid on the beta-plane: an analytical theory and its validation. Journal of Fluid Mechanics, 1997, 336, 203-220.	3.4	28
22	The Influence of an Upper Thermocline Current on Intrathermocline Eddies. Journal of Physical Oceanography, 1995, 25, 3247-3252.	1.7	27
23	Influence of bottom topography on an upwelling current: Generation of long trapped filaments. Ocean Modelling, 2010, 35, 277-303.	2.4	27
24	Cross-shelf variability in the Iberian Peninsula Upwelling System: Impact of a mesoscale filament. Continental Shelf Research, 2013, 59, 97-114.	1.8	27
25	Eddies in the Tropical Atlantic Ocean and Their Seasonal Variability. Geophysical Research Letters, 2019, 46, 12156-12164.	4.0	27
26	Sources of short-lived bromocarbons in the Iberian upwelling system. Biogeosciences, 2011, 8, 1551-1564.	3.3	26
27	Resistance of a Coherent Vortex to a Vertical Shear. Journal of Physical Oceanography, 2002, 32, 3089-3100.	1.7	23
28	Possible Sources Driving the Potential Vorticity Structure and Long-Wave Instability of Coastal Upwelling and Downwelling Currents. Journal of Physical Oceanography, 2006, 36, 875-896.	1.7	22
29	Efficiency of high order numerical schemes for momentum advection. Journal of Marine Systems, 2007, 67, 31-46.	2.1	22
30	Internal tide interactions in the Bay of Biscay: Observations and modelling. Journal of Marine Systems, 2013, 109-110, S26-S44.	2.1	22
31	Observations and Mechanisms for the Formation of Deep Equatorial and Tropical Circulation. Earth and Space Science, 2019, 6, 370-386.	2.6	22
32	Time splitting and linear stability of the slow part of the barotropic component. Ocean Modelling, 2008, 23, 73-81.	2.4	18
33	Subduction of a Surface Vortex under an Outcropping Front. Journal of Physical Oceanography, 2004, 34, 1610-1627.	1.7	18
34	Effect of the wind on the shelf dynamics: Formation of a secondary upwelling along the continental margin. Ocean Modelling, 2010, 31, 51-79.	2.4	15
35	Observed Tracer Fields Structuration by Middepth Zonal Jets in the Tropical Pacific. Journal of Physical Oceanography, 2020, 50, 281-304.	1.7	15
36	Potential vorticity diagnostics based on balances between volume integral and boundary conditions. Ocean Modelling, 2019, 138, 23-35.	2.4	14

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37	Ekman drift and vortical structures. Ocean Modelling, 2009, 27, 185-197.	2.4	13
38	Sea level anomalies using altimetry, model and tide gauges along the African coasts in the Eastern Tropical Atlantic Ocean: Inter-comparison and temporal variability. Advances in Space Research, 2021, 68, 534-552.	2.6	8
39	From seasonal flood pulse to seiche: Multi-frequency water-level fluctuations in a large shallow tropical lagoon (NokouÃ© Lagoon, Benin). Estuarine, Coastal and Shelf Science, 2022, 267, 107767.	2.1	8
40	From Mixing to the Large Scale Circulation: How the Inverse Cascade Is Involved in the Formation of the Subsurface Currents in the Gulf of Guinea. Fluids, 2020, 5, 147.	1.7	7
41	Seasonal and interannual variability of salinity in a large West-African lagoon (NokouÃ© Lagoon,) Tj ETQq1 1 0.784314 rgBT /Overloc	2.1	7
42	A numerical scheme for modeling tidal wetting and drying. Journal of Geophysical Research, 2011, 116, .	3.3	6
43	Deep Eddy Kinetic Energy in the Tropical Pacific From Lagrangian Floats. Journal of Geophysical Research: Oceans, 2020, 125, e2020JC016313.	2.6	6
44	Effects of upwelling duration and phytoplankton growth regime on dissolved-oxygen levels in an idealized Iberian Peninsula upwelling system. Nonlinear Processes in Geophysics, 2020, 27, 277-294.	1.3	6
45	Influence of the Transport on the Instability of a Boundary Current. Journal of Physical Oceanography, 2002, 32, 2806-2815.	1.7	5
46	Production and dispersion of mixed waters in stratified coastal areas. Continental Shelf Research, 2012, 39-40, 49-77.	1.8	5
47	Diapycnal mixing of passive tracers by Kelvinâ€“Helmholtz instabilities. Journal of Fluid Mechanics, 2020, 900, .	3.4	5
48	What Can We Learn From Observed Temperature and Salinity Isopycnal Anomalies at Eddy Generation Sites? Application in the Tropical Atlantic Ocean. Journal of Geophysical Research: Oceans, 2021, 126, e2021JC017630.	2.6	5
49	Observation and analysis of mixing in a tidal and wind-mixed coastal region. Ocean Modelling, 2011, 37, 65-84.	2.4	4
50	Adaptation of the vertical resolution in the mixed layer for HYCOM. Ocean Modelling, 2009, 30, 178-189.	2.4	2
51	A theoretical model to analyze the Central to Eastern Pacific El NiÃ±o continuum. Ocean Modelling, 2018, 130, 140-159.	2.4	0