

Francois Colas

List of Publications by Citations

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56
papers

1,934
citations

26
h-index

43
g-index

58
ext. papers

2,233
ext. citations

4.2
avg, IF

4.68
L-index

#	Paper	IF	Citations
56	Average circulation, seasonal cycle, and mesoscale dynamics of the Peru Current System: A modeling approach. <i>Journal of Geophysical Research</i> , 2005 , 110,		229
55	Procedures for offline grid nesting in regional ocean models. <i>Ocean Modelling</i> , 2010 , 35, 1-15	3	146
54	Heat balance and eddies in the Peru-Chile current system. <i>Climate Dynamics</i> , 2012 , 39, 509-529	4.2	117
53	Cold filamentary intensification and oceanic surface convergence lines. <i>Geophysical Research Letters</i> , 2009 , 36,	4.9	93
52	Eddy properties in the California Current System. <i>Journal of Geophysical Research</i> , 2011 , 116,		92
51	On the pathways of the equatorial subsurface currents in the eastern equatorial Pacific and their contributions to the Peru-Chile Undercurrent. <i>Journal of Geophysical Research</i> , 2010 , 115,		84
50	1997–1998 El Niño off Peru: A numerical study. <i>Progress in Oceanography</i> , 2008 , 79, 138-155	3.8	75
49	Are there inescapable issues prohibiting the use of terrain-following coordinates in climate models?. <i>Ocean Modelling</i> , 2012 , 42, 57-79	3	74
48	Seasonal variability of the Canary Current: A numerical study. <i>Journal of Geophysical Research</i> , 2011 , 116,		61
47	Broad impacts of fine-scale dynamics on seascape structure from zooplankton to seabirds. <i>Nature Communications</i> , 2014 , 5, 5239	17.4	58
46	Eddies in Eastern Boundary Subtropical Upwelling Systems. <i>Geophysical Monograph Series</i> , 2008 , 131-147.	7.1	51
45	Partial decoupling of primary productivity from upwelling in the California Current system. <i>Nature Geoscience</i> , 2016 , 9, 505-508	18.3	50
44	An individual-based model study of anchovy early life history in the northern Humboldt Current system. <i>Progress in Oceanography</i> , 2008 , 79, 313-325	3.8	50
43	Mesoscale Eddy Buoyancy Flux and Eddy-Induced Circulation in Eastern Boundary Currents. <i>Journal of Physical Oceanography</i> , 2013 , 43, 1073-1095	2.4	44
42	Impacts of El Niño events on the Peruvian upwelling system productivity. <i>Journal of Geophysical Research: Oceans</i> , 2017 , 122, 5423-5444	3.3	41
41	Peru-Chile upwelling dynamics under climate change. <i>Journal of Geophysical Research: Oceans</i> , 2015 , 120, 1152-1172	3.3	39
40	An Index to Distinguish Surface- and Subsurface-Intensified Vortices from Surface Observations. <i>Journal of Physical Oceanography</i> , 2016 , 46, 2529-2552	2.4	35

39	Do submesoscale frontal processes ventilate the oxygen minimum zone off Peru?. <i>Geophysical Research Letters</i> , 2016 , 43, 8133-8142	4.9	33
38	Equatorially forced intraseasonal propagations along the Peru-Chile coast and their relation with the nearshore eddy activity in 1992-2000: A modeling study. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		33
37	Subsurface connections in the eastern tropical Pacific during La Niña 1999-2001 and El Niño 2002-2003. <i>Journal of Geophysical Research</i> , 2011 , 116,		32
36	Small pelagic fish reproductive strategies in upwelling systems: A natal homing evolutionary model to study environmental constraints. <i>Progress in Oceanography</i> , 2009 , 83, 261-269	3.8	32
35	Distribution of Pleuroncodes monodon larvae over the continental shelf of south-central Chile: Field and modeling evidence for partial local retention and transport. <i>Progress in Oceanography</i> , 2012 , 92-95, 206-227	3.8	31
34	Mesoscale SST-wind stress coupling in the Peru-Chile current system: Which mechanisms drive its seasonal variability?. <i>Climate Dynamics</i> , 2016 , 47, 2309-2330	4.2	28
33	Sensitivity of the Northern Humboldt Current System nearshore modeled circulation to initial and boundary conditions. <i>Journal of Geophysical Research</i> , 2011 , 116,		28
32	Ichthyoplankton transport from the African coast to the Canary Islands. <i>Journal of Marine Systems</i> , 2011 , 87, 109-122	2.7	28
31	What shapes mesoscale wind anomalies in coastal upwelling zones?. <i>Climate Dynamics</i> , 2011 , 36, 2037-2049	4.4	28
30	Mesoscale variability in the northeastern tropical Pacific: Forcing mechanisms and eddy properties. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		26
29	Disentangling the Mesoscale Ocean-Atmosphere Interactions. <i>Journal of Geophysical Research: Oceans</i> , 2019 , 124, 2164-2178	3.3	24
28	A Lagrangian study tracing water parcel origins in the Canary Upwelling System. <i>Scientia Marina</i> , 2012 , 76, 79-94	1.8	23
27	Lagrangian circulation of the North Atlantic Central Water over the abyssal plain and continental slopes of the Bay of Biscay: description of selected mesoscale features. <i>Scientia Marina</i> , 2006 , 70, 27-42	1.8	21
26	Identifying appropriate spatial scales for marine conservation and management using a larval dispersal model: The case of <i>Concholepas concholepas</i> (loco) in Chile. <i>Progress in Oceanography</i> , 2014 , 124, 42-53	3.8	20
25	Oxygen Variability During ENSO in the Tropical South Eastern Pacific. <i>Frontiers in Marine Science</i> , 2019 , 5,	4.5	19
24	Impacts of the Mesoscale Ocean-Atmosphere Coupling on the Peru-Chile Ocean Dynamics: The Current-Induced Wind Stress Modulation. <i>Journal of Geophysical Research: Oceans</i> , 2018 , 123, 812-833	3.3	17
23	Modeling transport and survival of anchoveta eggs and yolk-sac larvae in the coastal zone off central-southern Chile: Assessing spatial and temporal spawning parameters. <i>Progress in Oceanography</i> , 2012 , 92-95, 178-191	3.8	17
22	Forcings and Evolution of the 2017 Coastal El Niño Off Northern Peru and Ecuador. <i>Frontiers in Marine Science</i> , 2018 , 5,	4.5	17

21	Effects of seasonal variability in across- and alongshore transport of anchoveta (<i>Engraulis ringens</i>) larvae on model-based pre-recruitment indices off central Chile. <i>Progress in Oceanography</i> , 2012 , 92-95, 192-205	3.8	16
20	A data-assimilative ocean forecasting system for the Prince William sound and an evaluation of its performance during sound Predictions 2009. <i>Continental Shelf Research</i> , 2013 , 63, S193-S208	2.4	14
19	Physical and biogeochemical impacts of RCP8.5 scenario in the Peru upwelling system. <i>Biogeosciences</i> , 2020 , 17, 3317-3341	4.6	12
18	Impact of Ocean-Atmosphere Current Feedback on Ocean Mesoscale Activity: Regional Variations and Sensitivity to Model Resolution. <i>Journal of Climate</i> , 2020 , 33, 2585-2602	4.4	11
17	Spatial and seasonal patterns of fine-scale to mesoscale upper ocean dynamics in an Eastern Boundary Current System. <i>Progress in Oceanography</i> , 2016 , 142, 105-116	3.8	10
16	Influence of Biological Factors on Connectivity Patterns for <i>Concholepas concholepas</i> (loco) in Chile. <i>PLoS ONE</i> , 2016 , 11, e0146418	3.7	10
15	Modeling tides and their influence on the circulation in Prince William Sound, Alaska. <i>Continental Shelf Research</i> , 2013 , 63, S126-S137	2.4	9
14	Striations and preferred eddy tracks triggered by topographic steering of the background flow in the eastern South Pacific. <i>Journal of Geophysical Research: Oceans</i> , 2017 , 122, 2847-2870	3.3	8
13	Lagrangian study of the Panama Bight and surrounding regions. <i>Journal of Geophysical Research</i> , 2006 , 111,		8
12	Modelling the seasonal dynamics of the Peru-Chile Undercurrent off Central Chile (30°S). <i>Continental Shelf Research</i> , 2016 , 123, 61-79	2.4	8
11	Mechanisms of the intensification of the upwelling-favorable winds during El Niño 1997-1998 in the Peruvian upwelling system. <i>Climate Dynamics</i> , 2018 , 51, 3717-3733	4.2	7
10	Untangling the roles of wind, run-off and tides in Prince William Sound. <i>Continental Shelf Research</i> , 2013 , 63, S79-S89	2.4	7
9	An Ocean Observing and Prediction Experiment in Prince William Sound, Alaska. <i>Bulletin of the American Meteorological Society</i> , 2011 , 92, 997-1007	6.1	5
8	Larval supply of Peruvian scallop to the marine reserve of Lobos de Tierra Island: A modeling approach. <i>Journal of Sea Research</i> , 2019 , 144, 142-155	1.9	3
7	ENSO Climate Forcing of the Marine Mercury Cycle in the Peruvian Upwelling Zone Does Not Affect Methylmercury Levels of Marine Avian Top Predators. <i>Environmental Science & Technology</i> , 2021 , 55, 15754-15765	10.3	2
6	Marine heatwaves in the Humboldt current system: from 5-day localized warming to year-long El Niños. <i>Scientific Reports</i> , 2021 , 11, 21172	4.9	2
5	Projection of upwelling-favorable winds in the Peruvian upwelling system under the RCP8.5 scenario using a high-resolution regional model. <i>Climate Dynamics</i> , 2021 , 57, 1-16	4.2	2
4	Statistical identification of coastal hypoxia events controlled by wind-induced upwelling. <i>Continental Shelf Research</i> , 2022 , 233, 104634	2.4	1

3	Evidences and drivers of ocean deoxygenation off Peru over recent past decades. <i>Scientific Reports</i> , 2021 , 11, 20292	4.9	1
2	Impact of Chlorophyll Shading on the Peruvian Upwelling System. <i>Geophysical Research Letters</i> , 2021 , 48, e2021GL094429	4.9	1
1	Paralytic shellfish toxins in Peruvian scallops associated with blooms of <i>Alexandrium ostenfeldii</i> (Paulsen) Balech & Tangen in Paracas Bay, Peru. <i>Marine Pollution Bulletin</i> , 2021 , 173, 112988	6.7	0