

Pierrick Penven

List of Publications by Year in descending order

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Version: 2024-02-01

71
papers

4,431
citations

109137

35
h-index

106150

65
g-index

74
all docs

74
docs citations

74
times ranked

4135
citing authors

#	ARTICLE	IF	CITATIONS
1	An investigation of sea level and circulation response during a coastal trapped wave event on the Eastern Agulhas Bank, South Africa. <i>Continental Shelf Research</i> , 2022, 240, 104698.	0.9	3
2	Mesoscale Eddy Kinetic Energy Budgets and Transfers between Vertical Modes in the Agulhas Current. <i>Journal of Physical Oceanography</i> , 2022, 52, 677-704.	0.7	3
3	Benefits of radar-derived surface current assimilation for South of Africa ocean circulation. <i>Geoscience Letters</i> , 2021, 8, .	1.3	4
4	Contourite and mixed turbidite-contourite systems in the Mozambique Channel (SW Indian Ocean): Link between geometry, sediment characteristics and modelled bottom currents. <i>Marine Geology</i> , 2021, 437, 106502.	0.9	36
5	Where and How the East Madagascar Current Retroflexion Originates?. <i>Journal of Geophysical Research: Oceans</i> , 2021, 126, e2020JC016203.	1.0	2
6	A Model Investigation of the Influences of the Southâ€East Madagascar Current on the Southâ€East Madagascar Bloom. <i>Journal of Geophysical Research: Oceans</i> , 2020, 125, e2019JC015761.	1.0	4
7	The impact of internal waves on upper continental slopes: insights from the Mozambican margin (southwest Indian Ocean). <i>Earth Surface Processes and Landforms</i> , 2020, 45, 1469-1482.	1.2	33
8	Generation of Submesoscale Frontal Eddies in the Agulhas Current. <i>Journal of Geophysical Research: Oceans</i> , 2019, 124, 7606-7625.	1.0	29
9	The influence of bottom currents on the Zambezi Valley morphology (Mozambique Channel, SW Indian) Tj ETQq1 1,0,784314,rgBT /C 0.9 46	1.0	46
10	Contourite depositional systems along the Mozambique channel: The interplay between bottom currents and sedimentary processes. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2019, 147, 79-99.	0.6	43
11	A New Definition of the Southâ€East Madagascar Bloom and Analysis of Its Variability. <i>Journal of Geophysical Research: Oceans</i> , 2019, 124, 1717-1735.	1.0	14
12	Uncovering a New Current: The Southwest Madagascar Coastal Current. <i>Geophysical Research Letters</i> , 2018, 45, 1930-1938.	1.5	16
13	Shelf-edge jet currents in the southern Benguela: A modelling approach. <i>Journal of Marine Systems</i> , 2018, 188, 27-38.	0.9	17
14	Coastal upwelling south of Madagascar: Temporal and spatial variability. <i>Journal of Marine Systems</i> , 2018, 178, 29-37.	0.9	30
15	Seasonal Phasing of Agulhas Current Transport Tied to a Baroclinic Adjustment of Nearâ€Field Winds. <i>Journal of Geophysical Research: Oceans</i> , 2018, 123, 7067-7083.	1.0	20
16	SIDDIES Corridor: A Major Eastâ€West Pathway of Longâ€Lived Surface and Subsurface Eddies Crossing the Subtropical South Indian Ocean. <i>Journal of Geophysical Research: Oceans</i> , 2018, 123, 5406-5425.	1.0	32
17	Impact of offshore eddies on shelf circulation and river plumes of the Sofala Bank, Mozambique Channel. <i>Journal of Marine Systems</i> , 2018, 185, 1-12.	0.9	9
18	The role of the <sc>A</sc>gulhas in the <sc>B</sc>nguela Current system: A numerical modeling approach. <i>Journal of Geophysical Research: Oceans</i> , 2017, 122, 3375-3393.	1.0	23

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19	Respective Roles of the Guinea Current and Local Winds on the Coastal Upwelling in the Northern Gulf of Guinea. <i>Journal of Physical Oceanography</i> , 2017, 47, 1367-1387.	0.7	26
20	Modulation of the Agulhas Current Retroflexion and Leakage by Oceanic Current Interaction with the Atmosphere in Coupled Simulations. <i>Journal of Physical Oceanography</i> , 2017, 47, 2077-2100.	0.7	56
21	A biophysical model of <i>S. aurita</i> early life history in the northern Gulf of Guinea. <i>Progress in Oceanography</i> , 2017, 151, 83-96.	1.5	7
22	Modelling the tides and their impacts on the vertical stratification over the Sofala Bank, Mozambique. <i>African Journal of Marine Science</i> , 2016, 38, 465-479.	0.4	10
23	New insights on the upper layer circulation north of the <sc>G</sc>ulf of <sc>G</sc>uinea. <i>Journal of Geophysical Research: Oceans</i> , 2016, 121, 6793-6815.	1.0	14
24	Annual cycle of the upper-ocean circulation and properties in the tropical western Indian Ocean. <i>African Journal of Marine Science</i> , 2016, 38, 81-99.	0.4	15
25	Modelling cyclonic eddies in the Delagoa Bight region. <i>Continental Shelf Research</i> , 2016, 119, 14-29.	0.9	8
26	Suppressing and enhancing effects of mesoscale dynamics on biological production in the Mozambique Channel. <i>Journal of Marine Systems</i> , 2016, 158, 129-139.	0.9	11
27	Southern Annular Mode and westerlyâ€windâ€driven changes in Indianâ€Atlantic exchange mechanisms. <i>Geophysical Research Letters</i> , 2015, 42, 4912-4921.	1.5	18
28	Coastally trapped eddies in the north of the <sc>G</sc>ulf of <sc>G</sc>uinea. <i>Journal of Geophysical Research: Oceans</i> , 2014, 119, 6805-6819.	1.0	33
29	Interannual variability of sea surface temperature and circulation in the tropical western Indian Ocean. <i>African Journal of Marine Science</i> , 2014, 36, 233-252.	0.4	25
30	Eddy properties in the Mozambique Channel: A comparison between observations and two numerical ocean circulation models. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2014, 100, 38-53.	0.6	137
31	Mesoscale eddy variability in the southern extension of the <sc>E</sc>ast <sc>M</sc>adagascar <sc>C</sc>urrent: Seasonal cycle, energy conversion terms, and eddy mean properties. <i>Journal of Geophysical Research: Oceans</i> , 2014, 119, 7324-7356.	1.0	48
32	Decoupling of the Agulhas Leakage from the Agulhas Current. <i>Journal of Physical Oceanography</i> , 2014, 44, 1776-1797.	0.7	69
33	The Mozambique Channel: From physics to upper trophic levels. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2014, 100, 1-9.	0.6	31
34	Influence of mesoscale eddies on biological production in the Mozambique Channel: Several contrasted examples from a coupled ocean-biogeochemistry model. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2014, 100, 79-93.	0.6	41
35	Circulation around La R�union and Mauritius islands in the south-western Indian Ocean: A modeling perspective. <i>Journal of Geophysical Research: Oceans</i> , 2014, 119, 1957-1976.	1.0	19
36	Cyclogeostrophic balance in the Mozambique Channel. <i>Journal of Geophysical Research: Oceans</i> , 2014, 119, 1054-1067.	1.0	38

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37	Agulhas Leakage Predominantly Responds to the Southern Hemisphere Westerlies. <i>Journal of Physical Oceanography</i> , 2013, 43, 2113-2131.	0.7	131
38	JEAI-MOCAs: A multi-institutional initiative to build marine research capacity in Mozambique. <i>South African Journal of Science</i> , 2013, 109, 2.	0.3	0
39	Energetics of the Tropical Atlantic Zonal Mode. <i>Journal of Climate</i> , 2012, 25, 7442-7466.	1.2	32
40	Impact of intensified Indian Ocean winds on mesoscale variability in the Agulhas system. <i>Nature Climate Change</i> , 2012, 2, 608-612.	8.1	84
41	On the warm nearshore bias in Pathfinder monthly SST products over Eastern Boundary Upwelling Systems. <i>Ocean Modelling</i> , 2012, 47, 113-118.	1.0	49
42	Two-way nesting in split-explicit ocean models: Algorithms, implementation and validation. <i>Ocean Modelling</i> , 2012, 49-50, 1-21.	1.0	257
43	Sensitivity of the Northern Humboldt Current System nearshore modeled circulation to initial and boundary conditions. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	31
44	New perspectives on Natal Pulses from satellite observations. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	54
45	Similarities between the tropical Atlantic seasonal cycle and ENSO: An energetics perspective. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	23
46	On the role of the Agulhas system in ocean circulation and climate. <i>Nature</i> , 2011, 472, 429-436.	13.7	470
47	Physical speciation of iron in the Atlantic sector of the Southern Ocean along a transect from the subtropical domain to the Weddell Sea Gyre. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	55
48	Coastal oceanic climate change and variability from 1982 to 2009 around South Africa. <i>African Journal of Marine Science</i> , 2010, 32, 237-246.	0.4	144
49	Modeling Equilibrium Dynamics of the Benguela Current System. <i>Journal of Physical Oceanography</i> , 2010, 40, 1942-1964.	0.7	78
50	The Benguela: A laboratory for comparative modeling studies. <i>Progress in Oceanography</i> , 2009, 83, 296-302.	1.5	57
51	High-resolution regional ocean dynamics simulation in the southwestern tropical Atlantic. <i>Ocean Modelling</i> , 2009, 30, 256-269.	1.0	47
52	Warming in the Agulhas Current system since the 1980's. <i>Geophysical Research Letters</i> , 2009, 36, .	1.5	159
53	Ocean variability over the Agulhas Bank and its dynamical connection with the southern Benguela upwelling system. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	16
54	Software tools for pre- and post-processing of oceanic regional simulations. <i>Environmental Modelling and Software</i> , 2008, 23, 660-662.	1.9	165

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55	A Lagrangian tool for modelling ichthyoplankton dynamics. <i>Environmental Modelling and Software</i> , 2008, 23, 1210-1214.	1.9	299
56	Eddies in eastern boundary subtropical upwelling systems. <i>Geophysical Monograph Series</i> , 2008, , 131-147.	0.1	61
57	Enrichment, concentration and retention processes in relation to anchovy (<i>Engraulis ringens</i>) eggs and larvae distributions in the northern Humboldt upwelling ecosystem. <i>Journal of Marine Systems</i> , 2007, 64, 189-200.	0.9	55
58	4 Large scale physical variability of the Benguela Current Large Marine Ecosystem (BCLME). <i>Large Marine Ecosystems</i> , 2006, , 49-70.	0.2	31
59	Madagascar: A pacemaker for the Agulhas Current system?. <i>Geophysical Research Letters</i> , 2006, 33, .	1.5	72
60	Evaluation and application of the ROMS 1-way embedding procedure to the central california upwelling system. <i>Ocean Modelling</i> , 2006, 12, 157-187.	1.0	230
61	Role of bathymetry in Agulhas Current configuration and behaviour. <i>Geophysical Research Letters</i> , 2006, 33, .	1.5	39
62	13 Low Oxygen Water (LOW) forcing scales amenable to forecasting in the Benguela ecosystem. <i>Large Marine Ecosystems</i> , 2006, 14, 295-308.	0.2	5
63	Modeling the primary and secondary productions of the southern Benguela upwelling system: A comparative study through two biogeochemical models. <i>Global Biogeochemical Cycles</i> , 2005, 19, n/a-n/a.	1.9	64
64	Average circulation, seasonal cycle, and mesoscale dynamics of the Peru Current System: A modeling approach. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	264
65	Modelling the effect of buoyancy on the transport of anchovy (<i>Engraulis capensis</i>) eggs from spawning to nursery grounds in the southern Benguela: an IBM approach. <i>Fisheries Oceanography</i> , 2003, 12, 170-184.	0.9	102
66	Modelling the shear edge eddies of the southern Agulhas Current. <i>Continental Shelf Research</i> , 2003, 23, 1099-1115.	0.9	59
67	Modelling the transport success of anchovy <i>Engraulis encrasicolus</i> eggs and larvae in the southern Benguela: the effect of spatio-temporal spawning patterns. <i>Marine Ecology - Progress Series</i> , 2003, 250, 247-262.	0.9	84
68	Linking wind and interannual upwelling variability in a regional model of the southern Benguela. <i>Geophysical Research Letters</i> , 2002, 29, 41-1-41-4.	1.5	25
69	Evolutionary individual-based model for the recruitment of anchovy (<i>Engraulis capensis</i>) in the southern Benguela. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2002, 59, 910-922.	0.7	69
70	Generation of cyclonic eddies by the Agulhas Current in the Lee of the Agulhas Bank. <i>Geophysical Research Letters</i> , 2001, 28, 1055-1058.	1.5	80
71	Simulation of a coastal jet retention process using a barotropic model. <i>Oceanologica Acta: European Journal of Oceanology - Revue Europeene De Oceanologie</i> , 2000, 23, 615-634.	0.7	70