

Patrick Marchesiello

List of Publications by Year in descending order

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78
papers

6,113
citations

66315

42
h-index

71651

76
g-index

78
all docs

78
docs citations

78
times ranked

5052
citing authors

#	ARTICLE	IF	CITATIONS
1	Open boundary conditions for long-term integration of regional oceanic models. <i>Ocean Modelling</i> , 2001, 3, 1-20.	1.0	824
2	Equilibrium Structure and Dynamics of the California Current System. <i>Journal of Physical Oceanography</i> , 2003, 33, 753-783.	0.7	508
3	Thermal forcing for a global ocean circulation model using a three-year climatology of ECMWF analyses. <i>Journal of Marine Systems</i> , 1995, 6, 363-380.	0.9	422
4	Eddy-induced reduction of biological production in eastern boundary upwelling systems. <i>Nature Geoscience</i> , 2011, 4, 787-792.	5.4	315
5	Two-way nesting in split-explicit ocean models: Algorithms, implementation and validation. <i>Ocean Modelling</i> , 2012, 49-50, 1-21.	1.0	257
6	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
7	Interannual variability of the South Pacific Convergence Zone and implications for tropical cyclone genesis. <i>Climate Dynamics</i> , 2011, 36, 1881-1896.	1.7	201
8	Upwelling response to coastal wind profiles. <i>Geophysical Research Letters</i> , 2004, 31, n/a-n/a.	1.5	194
9	Software tools for pre- and post-processing of oceanic regional simulations. <i>Environmental Modelling and Software</i> , 2008, 23, 660-662.	1.9	165
10	Eddy-resolving simulation of plankton ecosystem dynamics in the California Current System. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2006, 53, 1483-1516.	0.6	154
11	About the role of Westerly Wind Events in the possible development of an El Niño in 2014. <i>Geophysical Research Letters</i> , 2014, 41, 6476-6483.	1.5	128
12	Spurious diapycnal mixing in terrain-following coordinate models: The problem and a solution. <i>Ocean Modelling</i> , 2009, 26, 156-169.	1.0	126
13	A study of crab larvae dispersal on the Western Iberian Shelf: Physical processes. <i>Journal of Marine Systems</i> , 2007, 68, 215-236.	0.9	114
14	Circulation and suspended sediment transport in a coral reef lagoon: The south-west lagoon of New Caledonia. <i>Marine Pollution Bulletin</i> , 2010, 61, 269-296.	2.3	98
15	Comparison of tropical cyclogenesis indices on seasonal to interannual timescales. <i>Climate Dynamics</i> , 2012, 38, 301-321.	1.7	94
16	Surface circulation in the Gulf of Cadiz: Model and mean flow structure. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	88
17	Upwelling limitation by onshore geostrophic flow. <i>Journal of Marine Research</i> , 2010, 68, 37-62.	0.3	86
18	On effective resolution in ocean models. <i>Ocean Modelling</i> , 2016, 98, 36-50.	1.0	85

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19	Cross-shelf structure of coastal upwelling: A two-dimensional extension of Ekman's theory and a mechanism for inner shelf upwelling shut down. <i>Journal of Marine Research</i> , 2008, 66, 589-616.	0.3	83
20	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
21	Sediment-transport modeling on Southern Californian shelves: A ROMS case study. <i>Continental Shelf Research</i> , 2007, 27, 832-853.	0.9	78
22	Development, implementation and evaluation of a data-assimilative ocean forecasting system off the central California coast. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2009, 56, 100-126.	0.6	78
23	Impact of Tropical Cyclones on the Heat Budget of the South Pacific Ocean. <i>Journal of Physical Oceanography</i> , 2012, 42, 1882-1906.	0.7	72
24	Submesoscale dynamics in tropical instability waves. <i>Ocean Modelling</i> , 2011, 39, 31-46.	1.0	70
25	A sigma-coordinate primitive equation model for studying the circulation in the South Atlantic. Part I: Model configuration with error estimates. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 1998, 45, 543-572.	0.6	69
26	Surface circulation in the Gulf of Cadiz: 2. Inflow-outflow coupling and the Gulf of Cadiz slope current. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	68
27	Mangroves and shoreline erosion in the Mekong River delta, Viet Nam. <i>Estuarine, Coastal and Shelf Science</i> , 2019, 226, 106263.	0.9	64
28	Ocean response to wind sheltering in the Southern California Bight. <i>Geophysical Research Letters</i> , 2002, 29, 13-1.	1.5	63
29	Eddies in eastern boundary subtropical upwelling systems. <i>Geophysical Monograph Series</i> , 2008, , 131-147.	0.1	61
30	Erosion of the coastal Mekong delta: Assessing natural against man induced processes. <i>Continental Shelf Research</i> , 2019, 181, 72-89.	0.9	61
31	Island wakes in the Southern California Bight. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	60
32	High-resolution modeling of sediment erosion and particle transport across the northwest African shelf. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	56
33	Modeling the East Australian Current in the Western Tasman Sea. <i>Journal of Physical Oceanography</i> , 2000, 30, 2956-2971.	0.7	55
34	Eddy activity and mixing in upwelling systems: a comparative study of Northwest Africa and California regions. <i>International Journal of Earth Sciences</i> , 2009, 98, 299-308.	0.9	53
35	Remarkable Control of Western Boundary Currents by <i>Eddy Killing</i> , a Mechanical Air-Sea Coupling Process. <i>Geophysical Research Letters</i> , 2019, 46, 2743-2751.	1.5	52
36	Weather regimes and orographic circulation around New Caledonia. <i>Marine Pollution Bulletin</i> , 2010, 61, 413-431.	2.3	49

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37	Upwelling response to atmospheric coastal jets off central Chile: A modeling study of the October 2000 event. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	48
38	Ocean feedback to tropical cyclones: climatology and processes. <i>Climate Dynamics</i> , 2014, 43, 2831-2854.	1.7	48
39	Baroclinic Response of Sydney Shelf Waters to Local Wind and Deep Ocean Forcing. <i>Journal of Physical Oceanography</i> , 1998, 28, 178-190.	0.7	46
40	Mesoscale Simulation of Tropical Cyclones in the South Pacific: Climatology and Interannual Variability. <i>Journal of Climate</i> , 2011, 24, 3-25.	1.2	46
41	Barotropic Zonal Jets Induced by Islands in the Southwest Pacific. <i>Journal of Physical Oceanography</i> , 2008, 38, 2185-2204.	0.7	45
42	Numerical modelling of tide-induced residual circulation in Sydney Harbour. <i>Marine and Freshwater Research</i> , 2000, 51, 97.	0.7	44
43	Coastal upwelling, circulation and heat balance around New Caledonia's barrier reef. <i>Marine Pollution Bulletin</i> , 2010, 61, 432-448.	2.3	44
44	Effects of soot deposition on particle dynamics and microbial processes in marine surface waters. <i>Global Biogeochemical Cycles</i> , 2014, 28, 662-678.	1.9	40
45	Impact of particle aggregation on vertical fluxes of organic matter. <i>Progress in Oceanography</i> , 2009, 83, 331-341.	1.5	36
46	The NOW regional coupled model: Application to the tropical Indian Ocean climate and tropical cyclone activity. <i>Journal of Advances in Modeling Earth Systems</i> , 2014, 6, 700-722.	1.3	32
47	Observed impact of upwelling events on water properties and biological activity off the southwest coast of New Caledonia. <i>Marine Pollution Bulletin</i> , 2010, 61, 449-464.	2.3	29
48	Nitrogen transfers off Walvis Bay: a 3-D coupled physical/biogeochemical modeling approach in the Namibian upwelling system. <i>Biogeosciences</i> , 2013, 10, 4117-4135.	1.3	27
49	Video Sensing of Nearshore Bathymetry Evolution with Error Estimate. <i>Journal of Marine Science and Engineering</i> , 2019, 7, 233.	1.2	27
50	Assessing the impact of downscaled winds on a regional ocean model simulation of the Humboldt system. <i>Ocean Modelling</i> , 2013, 65, 11-24.	1.0	26
51	Chlorophyll bloom in the western Pacific at the end of the 1997-1998 El Niño: The role of the Kiribati Islands. <i>Geophysical Research Letters</i> , 2006, 33, .	1.5	25
52	A sigma-coordinate primitive equation model for studying the circulation in the South Atlantic Part II: Meridional transports and seasonal variability. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 1998, 45, 573-608.	0.6	24
53	On tridimensional rip current modeling. <i>Ocean Modelling</i> , 2015, 96, 36-48.	1.0	24
54	Shoreline Response to a Sequence of Typhoon and Monsoon Events. <i>Water (Switzerland)</i> , 2017, 9, 364.	1.2	20

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55	Numerical modelling of hydraulic control, solitary waves and primary instabilities in the Strait of Gibraltar. <i>Ocean Modelling</i> , 2020, 151, 101642.	1.0	18
56	Nutrient enrichment of Jervis Bay, Australia, during the massive 1992 coccolithophorid bloom. <i>Marine and Freshwater Research</i> , 1997, 48, 473.	0.7	18
57	Destabilization of an Oceanic Meddy-Like Vortex: Energy Transfers and Significance of Numerical Settings. <i>Journal of Physical Oceanography</i> , 2018, 48, 1151-1168.	0.7	17
58	Impact of the observed extratropics on climatological simulations of the MJO in a tropical channel model. <i>Climate Dynamics</i> , 2017, 48, 2541-2555.	1.7	16
59	Filament generation off the Strait of Gibraltar in response to Gap winds. <i>Dynamics of Atmospheres and Oceans</i> , 2009, 46, 36-45.	0.7	15
60	Typhoon Impact and Recovery from Continuous Video Monitoring: a Case Study from Nha Trang Beach, Vietnam. <i>Journal of Coastal Research</i> , 2016, 75, 263-267.	0.1	15
61	Lidar Observations of the Swash Zone of a Low-Tide Terraced Tropical Beach under Variable Wave Conditions: The Nha Trang (Vietnam) COASTVAR Experiment. <i>Journal of Marine Science and Engineering</i> , 2020, 8, 302.	1.2	13
62	Simulations of coastal upwelling on the Sydney Continental Shelf. <i>Marine and Freshwater Research</i> , 2000, 51, 577.	0.7	12
63	On model validation for meso/submesoscale currents: Metrics and application to ROMS off Central California. <i>Ocean Modelling</i> , 2009, 28, 209-225.	1.0	11
64	Tridimensional nonhydrostatic transient rip currents in a wave-resolving model. <i>Ocean Modelling</i> , 2021, 163, 101816.	1.0	11
65	9 Modelling, forecasting and scenarios in comparable upwelling ecosystems: California, Canary and Humboldt. <i>Large Marine Ecosystems</i> , 2006, 14, 185-220.	0.2	10
66	Observations and simulations of a transient shelfbreak front over the narrow shelf at Sydney, southeastern Australia. <i>Continental Shelf Research</i> , 2000, 20, 763-784.	0.9	8
67	Longshore drift produced by climate-modulated monsoons and typhoons in the South China Sea. <i>Journal of Marine Systems</i> , 2020, 211, 103399.	0.9	8
68	Modern carbonate sedimentary facies on the outer shelf and slope around New Caledonia. <i>Island Arc</i> , 2015, 24, 4-15.	0.5	7
69	On Eddy-Mixed Longshore Currents: Video Observation and 3D Modeling off Grand Popo Beach, Benin. <i>Journal of Coastal Research</i> , 2016, 75, 408-412.	0.1	7
70	Brinkman volume penalization for bathymetry in three-dimensional ocean models. <i>Ocean Modelling</i> , 2020, 145, 101530.	1.0	6
71	On the Natural and Anthropogenic Drivers of the Senegalese (West Africa) Low Coast Evolution: Saint Louis Beach 2016 COASTVAR Experiment and 3D Modeling of Short Term Coastal Protection Measures. <i>Journal of Coastal Research</i> , 2020, 95, 583.	0.1	6
72	Combined Longshore and Cross-Shore Modeling for Low-Energy Embayed Sandy Beaches. <i>Journal of Marine Science and Engineering</i> , 2021, 9, 979.	1.2	5

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73	Modelling the Ocean Circulation in the South Atlantic: A Strategy for Dealing with Open Boundaries. , 1996, , 289-304.		5
74	Distribution of sulfur aerosol precursors in the SPCZ released by continuous volcanic degassing at Ambrym, Vanuatu. Journal of Volcanology and Geothermal Research, 2016, 322, 76-104.	0.8	4
75	Ocean tides can drag the atmosphere and cause tidal winds over broad continental shelves. Communications Earth & Environment, 2022, 3, .	2.6	4
76	Stability analysis of split-explicit free surface ocean models: Implication of the depth-independent barotropic mode approximation. Journal of Computational Physics, 2019, 398, 108875.	1.9	2
77	Theory and analysis of acoustic-gravity waves in a free-surface compressible and stratified ocean. Ocean Modelling, 2021, 168, 101900.	1.0	2
78	Oceanic data assimilation study in northern Chile: use of a 3DVAR method. Latin American Journal of Aquatic Research, 2017, 41, 570-575.	0.2	1