Hernan G Arango

List of Publications by Year
in descending order

35 papers	3,371 citations	361413 20 h-index	377865 34 g-index
35 all docs	35 docs citations	35 times ranked	2881 citing authors

#	Article	IF	Citations
1	On the behavior of ocean analysis and forecast error covariance in the presence of baroclinic instability. Ocean Modelling, 2021, 157, 101733.	2.4	2
2	Observation impacts on the Mid-Atlantic Bight front and cross-shelf transport in 4D-Var ocean state estimates: Part II â€" The Pioneer Array. Ocean Modelling, 2021, 157, 101731.	2.4	9
3	The impact of remote sensing observations on cross-shelf transport estimates from 4D-Var analyses of the Mid-Atlantic Bight. Advances in Space Research, 2021, 68, 553-570.	2.6	21
4	Assessing the performance of an ocean observing, analysis and forecast System for the Mid-Atlantic Bight using array modes. Ocean Modelling, 2021, 164, 101821.	2.4	1
5	Regional and basin scale applications of ensemble adjustment Kalman filter and 4D-Var ocean data assimilation systems. Progress in Oceanography, 2020, 189, 102450.	3.2	7
6	Observation impacts on the Mid-Atlantic Bight front and cross-shelf transport in 4D-Var ocean state estimates: Part I â€" Multiplatform analysis. Ocean Modelling, 2020, 156, 101721.	2.4	10
7	Synthesis of Ocean Observations Using Data Assimilation for Operational, Real-Time and Reanalysis Systems: A More Complete Picture of the State of the Ocean. Frontiers in Marine Science, 2019, 6, .	2.5	60
8	Reducedâ€Rank Array Modes of the California Current Observing System. Journal of Geophysical Research: Oceans, 2018, 123, 452-465.	2.6	5
9	A 4D-variational ocean data assimilation application for Santos Basin, Brazil. Ocean Dynamics, 2016, 66, 419-434.	2.2	19
10	Estimates of ocean forecast error covariance derived from Hessian Singular Vectors. Ocean Modelling, 2015, 89, 104-121.	2.4	4
11	Data assimilative modeling investigation of Gulf Stream Warm Core Ring interaction with continental shelf and slope circulation. Journal of Geophysical Research: Oceans, 2014, 119, 5968-5991.	2.6	50
12	A wetting and drying scheme for ROMS. Computers and Geosciences, 2013, 58, 54-61.	4.2	47
13	A 4D-Var Analysis System for the California Current: A Prototype for an Operational Regional Ocean Data Assimilation System. , 2013, , 345-366.		21
14	Estimates of Analysis and Forecast Error Variances Derived from the Adjoint of 4D-Var. Monthly Weather Review, 2012, 140, 3183-3203.	1.4	16
15	A data assimilative, coupled physicalâ€"biological model for the Coastal Gulf of Alaska. Dynamics of Atmospheres and Oceans, 2011, 52, 95-118.	1.8	20
16	The Regional Ocean Modeling System (ROMS) 4-dimensional variational data assimilation systems. Progress in Oceanography, 2011, 91, 50-73.	3.2	148
17	The Regional Ocean Modeling System (ROMS) 4-dimensional variational data assimilation systems. Progress in Oceanography, 2011, 91, 34-49.	3.2	240
18	The Regional Ocean Modeling System (ROMS) 4-dimensional variational data assimilation systems. Progress in Oceanography, 2011, 91, 74-94.	3.2	90

#	Article	IF	Citations
19	Using a composite grid approach in a complex coastal domain to estimate estuarine residence time. Computers and Geosciences, 2010, 36, 921-935.	4.2	40
20	Towards an integrated observation and modeling system in the New York Bight using variational methods. Part I: 4DVAR data assimilation. Ocean Modelling, 2010, 35, 119-133.	2.4	68
21	An Adjoint Sensitivity Analysis of the Southern California Current Circulation and Ecosystem. Journal of Physical Oceanography, 2009, 39, 702-720.	1.7	52
22	An Adjoint Sensitivity Study of Buoyancy- and Wind-Driven Circulation on the New Jersey Inner Shelf. Journal of Physical Oceanography, 2009, 39, 1652-1668.	1.7	23
23	Seasonal surface ocean circulation and dynamics in the Philippine Archipelago region during 2004â€"2008. Dynamics of Atmospheres and Oceans, 2009, 47, 114-137.	1.8	45
24	Development of a three-dimensional, regional, coupled wave, current, and sediment-transport model. Computers and Geosciences, 2008, 34, 1284-1306.	4.2	641
25	Weak and strong constraint data assimilation in the inverse Regional Ocean Modeling System (ROMS): Development and application for a baroclinic coastal upwelling system. Ocean Modelling, 2007, 16, 160-187.	2.4	84
26	Barotropic Rossby wave radiation from a model Gulf Stream. Geophysical Research Letters, 2007, 34, .	4.0	4
27	Performance of four turbulence closure models implemented using a generic length scale method. Ocean Modelling, 2005, 8, 81-113.	2.4	588
28	A regional ocean modeling system for the Long-term Ecosystem Observatory. Journal of Geophysical Research, 2005, 110, .	3.3	111
29	A comprehensive ocean prediction and analysis system based on the tangent linear and adjoint of a regional ocean model. Ocean Modelling, 2004, 7, 227-258.	2.4	173
30	Model evaluation experiments in the North Atlantic Basin: simulations in nonlinear terrain-following coordinates. Dynamics of Atmospheres and Oceans, 2000, 32, 239-281.	1.8	663
31	An interdisciplinary ocean prediction system: Assimilation strategies ana structured data models. Elsevier Oceanography Series, 1996, 61, 413-452.	0.1	53
32	Real-time regional forecasting. Elsevier Oceanography Series, 1996, , 377-410.	0.1	26
33	Quasigeostrophic Forecasting and Physical Processes of Iceland-Faroe Frontal Variability. Journal of Physical Oceanography, 1995, 25, 1273-1295.	1.7	15
34	Quantitative skill of quasi-geostrophic forecasts of a baroclinically unstable Iceland-Faroe Front. Journal of Geophysical Research, 1995, 100, 10833.	3.3	8
35	A generalized reducedâ€gravity ocean model. Atmosphere - Ocean, 1991, 29, 256-287.	1.6	7