

Hernan G Arango

List of Publications by Year in descending order

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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	Model evaluation experiments in the North Atlantic Basin: simulations in nonlinear terrain-following coordinates. <i>Dynamics of Atmospheres and Oceans</i> , 2000, 32, 239-281.	1.8	663
2	Development of a three-dimensional, regional, coupled wave, current, and sediment-transport model. <i>Computers and Geosciences</i> , 2008, 34, 1284-1306.	4.2	641
3	Performance of four turbulence closure models implemented using a generic length scale method. <i>Ocean Modelling</i> , 2005, 8, 81-113.	2.4	588
4	The Regional Ocean Modeling System (ROMS) 4-dimensional variational data assimilation systems. <i>Progress in Oceanography</i> , 2011, 91, 34-49.	3.2	240
5	A comprehensive ocean prediction and analysis system based on the tangent linear and adjoint of a regional ocean model. <i>Ocean Modelling</i> , 2004, 7, 227-258.	2.4	173
6	The Regional Ocean Modeling System (ROMS) 4-dimensional variational data assimilation systems. <i>Progress in Oceanography</i> , 2011, 91, 50-73.	3.2	148
7	A regional ocean modeling system for the Long-term Ecosystem Observatory. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	111
8	The Regional Ocean Modeling System (ROMS) 4-dimensional variational data assimilation systems. <i>Progress in Oceanography</i> , 2011, 91, 74-94.	3.2	90
9	Weak and strong constraint data assimilation in the inverse Regional Ocean Modeling System (ROMS): Development and application for a baroclinic coastal upwelling system. <i>Ocean Modelling</i> , 2007, 16, 160-187.	2.4	84
10	Towards an integrated observation and modeling system in the New York Bight using variational methods. Part I: 4DVAR data assimilation. <i>Ocean Modelling</i> , 2010, 35, 119-133.	2.4	68
11	Synthesis of Ocean Observations Using Data Assimilation for Operational, Real-Time and Reanalysis Systems: A More Complete Picture of the State of the Ocean. <i>Frontiers in Marine Science</i> , 2019, 6, .	2.5	60
12	An interdisciplinary ocean prediction system: Assimilation strategies and structured data models. <i>Elsevier Oceanography Series</i> , 1996, 61, 413-452.	0.1	53
13	An Adjoint Sensitivity Analysis of the Southern California Current Circulation and Ecosystem. <i>Journal of Physical Oceanography</i> , 2009, 39, 702-720.	1.7	52
14	Data assimilative modeling investigation of Gulf Stream Warm Core Ring interaction with continental shelf and slope circulation. <i>Journal of Geophysical Research: Oceans</i> , 2014, 119, 5968-5991.	2.6	50
15	A wetting and drying scheme for ROMS. <i>Computers and Geosciences</i> , 2013, 58, 54-61.	4.2	47
16	Seasonal surface ocean circulation and dynamics in the Philippine Archipelago region during 2004-2008. <i>Dynamics of Atmospheres and Oceans</i> , 2009, 47, 114-137.	1.8	45
17	Using a composite grid approach in a complex coastal domain to estimate estuarine residence time. <i>Computers and Geosciences</i> , 2010, 36, 921-935.	4.2	40
18	Real-time regional forecasting. <i>Elsevier Oceanography Series</i> , 1996, , 377-410.	0.1	26

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19	An Adjoint Sensitivity Study of Buoyancy- and Wind-Driven Circulation on the New Jersey Inner Shelf. <i>Journal of Physical Oceanography</i> , 2009, 39, 1652-1668.	1.7	23
20	The impact of remote sensing observations on cross-shelf transport estimates from 4D-Var analyses of the Mid-Atlantic Bight. <i>Advances in Space Research</i> , 2021, 68, 553-570.	2.6	21
21	A 4D-Var Analysis System for the California Current: A Prototype for an Operational Regional Ocean Data Assimilation System. , 2013, , 345-366.		21
22	A data assimilative, coupled physical–biological model for the Coastal Gulf of Alaska. <i>Dynamics of Atmospheres and Oceans</i> , 2011, 52, 95-118.	1.8	20
23	A 4D-variational ocean data assimilation application for Santos Basin, Brazil. <i>Ocean Dynamics</i> , 2016, 66, 419-434.	2.2	19
24	Estimates of Analysis and Forecast Error Variances Derived from the Adjoint of 4D-Var. <i>Monthly Weather Review</i> , 2012, 140, 3183-3203.	1.4	16
25	Quasigeostrophic Forecasting and Physical Processes of Iceland-Faroe Frontal Variability. <i>Journal of Physical Oceanography</i> , 1995, 25, 1273-1295.	1.7	15
26	Observation impacts on the Mid-Atlantic Bight front and cross-shelf transport in 4D-Var ocean state estimates: Part I – Multiplatform analysis. <i>Ocean Modelling</i> , 2020, 156, 101721.	2.4	10
27	Observation impacts on the Mid-Atlantic Bight front and cross-shelf transport in 4D-Var ocean state estimates: Part II – The Pioneer Array. <i>Ocean Modelling</i> , 2021, 157, 101731.	2.4	9
28	Quantitative skill of quasi-geostrophic forecasts of a baroclinically unstable Iceland-Faroe Front. <i>Journal of Geophysical Research</i> , 1995, 100, 10833.	3.3	8
29	A generalized reduced-gravity ocean model. <i>Atmosphere - Ocean</i> , 1991, 29, 256-287.	1.6	7
30	Regional and basin scale applications of ensemble adjustment Kalman filter and 4D-Var ocean data assimilation systems. <i>Progress in Oceanography</i> , 2020, 189, 102450.	3.2	7
31	Reduced-Rank Array Modes of the California Current Observing System. <i>Journal of Geophysical Research: Oceans</i> , 2018, 123, 452-465.	2.6	5
32	Barotropic Rossby wave radiation from a model Gulf Stream. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	4
33	Estimates of ocean forecast error covariance derived from Hessian Singular Vectors. <i>Ocean Modelling</i> , 2015, 89, 104-121.	2.4	4
34	On the behavior of ocean analysis and forecast error covariance in the presence of baroclinic instability. <i>Ocean Modelling</i> , 2021, 157, 101733.	2.4	2
35	Assessing the performance of an ocean observing, analysis and forecast System for the Mid-Atlantic Bight using array modes. <i>Ocean Modelling</i> , 2021, 164, 101821.	2.4	1