Mohamed Iskandarani

List of Publications by Year
in descending order

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39 papers	1,087 citations	516710 16 h-index	395702 33 g-index
39 all docs	39 docs citations	39 times ranked	917 citing authors

#	Article	IF	Citations
1	Quantitative uncertainty estimation in biophysical models of fish larval connectivity in the Florida Keys. ICES Journal of Marine Science, 2022, 79, 609-632.	2.5	5
2	On the Construction of Uncertain Time Series Surrogates Using Polynomial Chaos and Gaussian Processes. Mathematical Geosciences, 2020, 52, 285-309.	2.4	0
3	A polynomial chaos framework for probabilistic predictions of storm surge events. Computational Geosciences, 2020, 24, 109-128.	2.4	7
4	Investigating the Formation of Submesoscale Structures along Mesoscale Fronts and Estimating Kinematic Quantities Using Lagrangian Drifters. Fluids, 2020, 5, 159.	1.7	12
5	Reconstruction of Submesoscale Velocity Field from Surface Drifters. Journal of Physical Oceanography, 2019, 49, 941-958.	1.7	11
6	Uncertainty Propagation in Coupled Atmosphereâ€“Waveâ€“Ocean Prediction System: A Study of Hurricane Earl (2010). Monthly Weather Review, 2019, 147, 221-245.	1.4	6
7	Zonally Elongated Transient Flows: Phenomenology and Sensitivity Analysis. Journal of Geophysical Research: Oceans, 2018, 123, 3982-4002.	2.6	6
8	Verifying and assessing the performance of the perturbation strategy in polynomial chaos ensemble forecasts of the circulation in the Gulf of Mexico. Ocean Modelling, 2018, 131, 59-70.	2.4	5
9	A framework to quantify uncertainty in simulations of oil transport in the ocean. Journal of Geophysical Research: Oceans, 2016, 121, 2058-2077.	2.6	14
10	Idealized Tropical Cyclone Responses to the Height and Depth of Environmental Vertical Wind Shear. Monthly Weather Review, 2016, 144, 2155-2175.	1.4	70
11	An overview of uncertainty quantification techniques with application to oceanic and oilâ€spill simulations. Journal of Geophysical Research: Oceans, 2016, 121, 2789-2808.	2.6	29
12	Quantifying initial and wind forcing uncertainties in the Gulf of Mexico. Computational Geosciences, 2016, 20, 1133-1153.	2.4	28
13	Propagation of uncertainty and sensitivity analysis in an integral oilâ€gas plume model. Journal of Geophysical Research: Oceans, 2016, 121, 3488-3501.	2.6	6
14	Quantifying uncertainty in Gulf of Mexico forecasts stemming from uncertain initial conditions. Journal of Geophysical Research: Oceans, 2016, 121, 4819-4832.	2.6	8
15	An efficient perturbed parameter scheme in the Lorenz system for quantifying model uncertainty. Quarterly Journal of the Royal Meteorological Society, 2015, 141, 2552-2562.	2.7	2
16	Pragmatic aspects of uncertainty propagation: A conceptual review. Ocean Modelling, 2015, 95, 25-36.	2.4	9
17	Drag Parameter Estimation Using Gradients and Hessian from a Polynomial Chaos Model Surrogate. Monthly Weather Review, 2014, 142, 933-941.	1.4	16
18	A priori testing of sparse adaptive polynomial chaos expansions using an ocean general circulation model database. Computational Geosciences, 2013, 17, 899-911.	2.4	35

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19	Bayesian Inference of Drag Parameters Using AXBT Data from Typhoon Fanapi. Monthly Weather Review, 2013, 141, 2347-2367.	1.4	28
20	Global sensitivity analysis in an ocean general circulation model: a sparse spectral projection approach. Computational Geosciences, 2012, 16, 757-778.	2.4	58
21	Multiscale Stochastic Preconditioners in Non-intrusive Spectral Projection. Journal of Scientific Computing, 2012, 50, 306-340.	2.3	25
22	Singular Vectors for Tropical Cycloneâ€“Like Vortices in a Nondivergent Barotropic Framework. Journals of the Atmospheric Sciences, 2011, 68, 2273-2291.	1.7	10
23	On the Use of Two-Dimensional Incompressible Flow to Study Secondary Eyewall Formation in Tropical Cyclones. Journals of the Atmospheric Sciences, 2010, 67, 3765-3773.	1.7	14
24	Very large eddy simulation of the Red Sea overflow. Ocean Modelling, 2008, 20, 183-206.	2.4	16
25	Performance of two-equation turbulence closures in three-dimensional simulations of the Red Sea overflow. Ocean Modelling, 2008, 24, 122-139.	2.4	47
26	A Spectral Finite-Volume Method for the Shallow Water Equations. Monthly Weather Review, 2004, 132, 1777-1791.	1.4	25
27	SPECIAL SOLUTION STRATEGIES INSIDE A SPECTRAL ELEMENT OCEAN MODEL. Mathematical Models and Methods in Applied Sciences, 2003, 13, 309-322.	3.3	1
28	A Multiscale Pressure Splitting of the Shallow-Water Equations. Journal of Computational Physics, 2001, 166, 116-151.	3.8	3
29	A nonconforming spectral element ocean model. International Journal for Numerical Methods in Fluids, 2000, 34, 495-525.	1.6	14
30	On the transient adjustment of a mid-latitude abyssal ocean basin with realistic geometry: the constant depth limit. Dynamics of Atmospheres and Oceans, 1999, 29, 147-188.	1.8	9
31	A Spectral Element Solution of the Shallow-Water Equations on Multiprocessor Computers. Journal of Atmospheric and Oceanic Technology, 1998, 15, 510-521.	1.3	16
32	Global Modelling of the Ocean and Atmosphere Using the Spectral Element Method. Atmosphere - Ocean, 1997, 35, 505-531.	1.6	34
33	Dynamics of the long-period tides. Progress in Oceanography, 1997, 40, 81-108.	3.2	36
34	The Spectral Element Method for the Shallow Water Equations on the Sphere. Journal of Computational Physics, 1997, 130, 92-108.	3.8	268
35	A Spectral Filtering Procedure for Eddy-Resolving Simulations with a Spectral Element Ocean Model. Journal of Computational Physics, 1997, 137, 130-154.	3.8	43
36	A staggered spectral element model with application to the oceanic shallow water equations. International Journal for Numerical Methods in Fluids, 1995, 20, 393-414.	1.6	115

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37	Mass Transport in Wave Tank. Journal of Waterway, Port, Coastal and Ocean Engineering, 1993, 119, 88-104.	1.2	1
38	Mass transport in two-dimensional water waves. Journal of Fluid Mechanics, 1991, 231, 395-415.	3.4	20
39	Mass transport in three-dimensional water waves. Journal of Fluid Mechanics, 1991, 231, 417-437.	3.4	35