

Mohamed Iskandarani

List of Publications by Year in descending order

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39
papers

1,087
citations

516710

16
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395702

33
g-index

39
all docs

39
docs citations

39
times ranked

917
citing authors

#	ARTICLE	IF	CITATIONS
1	The Spectral Element Method for the Shallow Water Equations on the Sphere. Journal of Computational Physics, 1997, 130, 92-108.	3.8	268
2	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
3	Idealized Tropical Cyclone Responses to the Height and Depth of Environmental Vertical Wind Shear. Monthly Weather Review, 2016, 144, 2155-2175.	1.4	70
4	Global sensitivity analysis in an ocean general circulation model: a sparse spectral projection approach. Computational Geosciences, 2012, 16, 757-778.	2.4	58
5	Performance of two-equation turbulence closures in three-dimensional simulations of the Red Sea overflow. Ocean Modelling, 2008, 24, 122-139.	2.4	47
6	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
7	Dynamics of the long-period tides. Progress in Oceanography, 1997, 40, 81-108.	3.2	36
8	Mass transport in three-dimensional water waves. Journal of Fluid Mechanics, 1991, 231, 417-437.	3.4	35
9	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
10	Global Modelling of the Ocean and Atmosphere Using the Spectral Element Method. Atmosphere - Ocean, 1997, 35, 505-531.	1.6	34
11	An overview of uncertainty quantification techniques with application to oceanic and oil spill simulations. Journal of Geophysical Research: Oceans, 2016, 121, 2789-2808.	2.6	29
12	Bayesian Inference of Drag Parameters Using AXBT Data from Typhoon Fanapi. Monthly Weather Review, 2013, 141, 2347-2367.	1.4	28
13	Quantifying initial and wind forcing uncertainties in the Gulf of Mexico. Computational Geosciences, 2016, 20, 1133-1153.	2.4	28
14	A Spectral Finite-Volume Method for the Shallow Water Equations. Monthly Weather Review, 2004, 132, 1777-1791.	1.4	25
15	Multiscale Stochastic Preconditioners in Non-intrusive Spectral Projection. Journal of Scientific Computing, 2012, 50, 306-340.	2.3	25
16	Mass transport in two-dimensional water waves. Journal of Fluid Mechanics, 1991, 231, 395-415.	3.4	20
17	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
18	Very large eddy simulation of the Red Sea overflow. Ocean Modelling, 2008, 20, 183-206.	2.4	16

#	ARTICLE	IF	CITATIONS
19	Drag Parameter Estimation Using Gradients and Hessian from a Polynomial Chaos Model Surrogate. <i>Monthly Weather Review</i> , 2014, 142, 933-941.	1.4	16
20	A nonconforming spectral element ocean model. <i>International Journal for Numerical Methods in Fluids</i> , 2000, 34, 495-525.	1.6	14
21	On the Use of Two-Dimensional Incompressible Flow to Study Secondary Eyewall Formation in Tropical Cyclones. <i>Journals of the Atmospheric Sciences</i> , 2010, 67, 3765-3773.	1.7	14
22	A framework to quantify uncertainty in simulations of oil transport in the ocean. <i>Journal of Geophysical Research: Oceans</i> , 2016, 121, 2058-2077.	2.6	14
23	Investigating the Formation of Submesoscale Structures along Mesoscale Fronts and Estimating Kinematic Quantities Using Lagrangian Drifters. <i>Fluids</i> , 2020, 5, 159.	1.7	12
24	Reconstruction of Submesoscale Velocity Field from Surface Drifters. <i>Journal of Physical Oceanography</i> , 2019, 49, 941-958.	1.7	11
25	Singular Vectors for Tropical Cyclone-Like Vortices in a Nondivergent Barotropic Framework. <i>Journals of the Atmospheric Sciences</i> , 2011, 68, 2273-2291.	1.7	10
26	On the transient adjustment of a mid-latitude abyssal ocean basin with realistic geometry: the constant depth limit. <i>Dynamics of Atmospheres and Oceans</i> , 1999, 29, 147-188.	1.8	9
27	Pragmatic aspects of uncertainty propagation: A conceptual review. <i>Ocean Modelling</i> , 2015, 95, 25-36.	2.4	9
28	Quantifying uncertainty in Gulf of Mexico forecasts stemming from uncertain initial conditions. <i>Journal of Geophysical Research: Oceans</i> , 2016, 121, 4819-4832.	2.6	8
29	A polynomial chaos framework for probabilistic predictions of storm surge events. <i>Computational Geosciences</i> , 2020, 24, 109-128.	2.4	7
30	Propagation of uncertainty and sensitivity analysis in an integral oil-gas plume model. <i>Journal of Geophysical Research: Oceans</i> , 2016, 121, 3488-3501.	2.6	6
31	Zonally Elongated Transient Flows: Phenomenology and Sensitivity Analysis. <i>Journal of Geophysical Research: Oceans</i> , 2018, 123, 3982-4002.	2.6	6
32	Uncertainty Propagation in Coupled Atmosphere-Wave-Ocean Prediction System: A Study of Hurricane Earl (2010). <i>Monthly Weather Review</i> , 2019, 147, 221-245.	1.4	6
33	Verifying and assessing the performance of the perturbation strategy in polynomial chaos ensemble forecasts of the circulation in the Gulf of Mexico. <i>Ocean Modelling</i> , 2018, 131, 59-70.	2.4	5
34	Quantitative uncertainty estimation in biophysical models of fish larval connectivity in the Florida Keys. <i>ICES Journal of Marine Science</i> , 2022, 79, 609-632.	2.5	5
35	A Multiscale Pressure Splitting of the Shallow-Water Equations. <i>Journal of Computational Physics</i> , 2001, 166, 116-151.	3.8	3
36	An efficient perturbed parameter scheme in the Lorenz system for quantifying model uncertainty. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2015, 141, 2552-2562.	2.7	2

#	ARTICLE	IF	CITATIONS
37	Mass Transport in Wave Tank. Journal of Waterway, Port, Coastal and Ocean Engineering, 1993, 119, 88-104.	1.2	1
38	SPECIAL SOLUTION STRATEGIES INSIDE A SPECTRAL ELEMENT OCEAN MODEL. Mathematical Models and Methods in Applied Sciences, 2003, 13, 309-322.	3.3	1
39	On the Construction of Uncertain Time Series Surrogates Using Polynomial Chaos and Gaussian Processes. Mathematical Geosciences, 2020, 52, 285-309.	2.4	0