James M Kaihatu

List of Publications by Year
in descending order

67	1,086	471371	414303
papers	citations	17 h-index	32 g-index

71	71	71	1053
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Forecasting and hindcasting waves with the SWAN model in the Southern California Bight. Coastal Engineering, 2007, 54, 1-15.	1.7	116
2	Empirical Orthogonal Function Analysis of Ocean Surface Currents Using Complex and Real-Vector Methods*. Journal of Atmospheric and Oceanic Technology, 1998, 15, 927-941.	0.5	106
3	Nonlinear transformation of waves in finite water depth. Physics of Fluids, 1995, 7, 1903-1914.	1.6	95
4	Dispersal of Mississippi and Atchafalaya sediment on the Texasâ€“Louisiana shelf: Model estimates for the year 1993. Continental Shelf Research, 2011, 31, 1558-1575.	0.9	68
5	Diffusion reduction in an arbitrary scale third generation wind wave model. Ocean Engineering, 2002, 29, 1357-1390.	1.9	58
6	Modeling of nonlinear wave propagation over fringing reefs. Coastal Engineering, 2011, 58, 1125-1137.	1.7	49
7	A model for the propagation of nonlinear surface waves over viscous muds. Coastal Engineering, 2007, 54, 752-764.	1.7	47
8	The NOPP operational wave model improvement project. Ocean Modelling, 2013, 70, 2-10.	1.0	47
9	Potential implications of global warming and barrier island degradation on future hurricane inundation, property damages, and population impacted. Ocean and Coastal Management, 2010, 53, 645-657.	2.0	44
10	The effect of bathymetric filtering on nearshore process model results. Coastal Engineering, 2009, 56, 484-493.	1.7	34
11	A real-time nearshore wave and current prediction system. Journal of Marine Systems, 2008, 69, 37-58.	0.9	30
12	Improvement of Parabolic Nonlinear Dispersive Wave Model. Journal of Waterway, Port, Coastal and Ocean Engineering, 2001, 127, 113-121.	0.5	26
13	Asymptotic behavior of frequency and wave number spectra of nearshore shoaling and breaking waves. Journal of Geophysical Research, 2007, 112, .	3.3	26
14	Temporal and spatial analysis of per and polyfluoroalkyl substances in surface waters of Houston ship channel following a large-scale industrial fire incident. Environmental Pollution, 2020, 265, 115009.	3.7	23
15	Potential Impact of Climate Change on Hurricane Flooding Inundation, Population Affected and Property Damages in Corpus Christi¹. Journal of the American Water Resources Association, 2010, 46, 1049-1059.	1.0	21
16	Hurricane Michael in the Area of Mexico Beach, Florida. Journal of Waterway, Port, Coastal and Ocean Engineering, 2020, 146, .	0.5	21
17	The effect of wind variability and domain size in the Persian Gulf on predicting nearshore wave energy near Doha, Qatar. Applied Ocean Research, 2016, 55, 18-36.	1.8	17
18	Application of a nonlinear frequency domain waveâ€“current interaction model to shallow water recurrence effects in random waves. Ocean Modelling, 2009, 26, 190-205.	1.0	16

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19	Two-Dimensional Parabolic Modeling of Extended Boussinesq Equations. Journal of Waterway, Port, Coastal and Ocean Engineering, 1998, 124, 57-67.	0.5	15
20	Incorporation of Wind Effects Into Boussinesq Wave Models. Journal of Waterway, Port, Coastal and Ocean Engineering, 2004, 130, 312-321.	0.5	15
21	The combined effect of waveâ€“current interaction and mud-induced damping on nonlinear wave evolution. Ocean Modelling, 2012, 41, 22-34.	1.0	15
22	Experimental study of force, pressure, and fluid velocity on a simplified coastal building under tsunami bore impact. Natural Hazards, 2020, 103, 1093-1120.	1.6	15
23	Modeling Wind Effects on Shallow Water Waves. Journal of Waterway, Port, Coastal and Ocean Engineering, 2016, 142, .	0.5	13
24	Modeling wave-mud interaction on the central chenier-plain coast, western Louisiana Shelf, USA. Ocean Modelling, 2013, 70, 75-84.	1.0	12
25	Numerical Investigation of Wind Waves in the Persian Gulf: Bathymetry Effects. Journal of Atmospheric and Oceanic Technology, 2016, 33, 17-31.	0.5	12
26	Model parameterization and experimental design issues in nearshore bathymetry inversion. Journal of Geophysical Research, 2004, 109, n/a-n/a.	3.3	11
27	Modeling nonlinear waveâ€“wave interactions with the elliptic mild slope equation. Applied Ocean Research, 2014, 48, 114-125.	1.8	10
28	Imaging-Based Nearshore Bathymetry Measurement Using an Unmanned Aircraft System. Journal of Waterway, Port, Coastal and Ocean Engineering, 2019, 145, .	0.5	10
29	Optimized Determination of Viscous Mud Properties Using a Nonlinear Waveâ€“Mud Interaction Model. Journal of Atmospheric and Oceanic Technology, 2011, 28, 1486-1503.	0.5	9
30	Nonlinear wave dynamics in the presence of mud-induced dissipation on Atchafalaya Shelf, Louisiana, USA. Coastal Engineering, 2017, 130, 52-64.	1.7	9
31	Performance of the WRF Model for Surface Wind Prediction around Qatar. Journal of Atmospheric and Oceanic Technology, 2018, 35, 575-592.	0.5	9
32	Wave Transformation at Pensacola Pass, Florida. Journal of Waterway, Port, Coastal and Ocean Engineering, 1997, 123, 314-321.	0.5	8
33	Potential Human Health Hazard of Post-Hurricane Harvey Sediments in Galveston Bay and Houston Ship Channel: A Case Study of Using In Vitro Bioactivity Data to Inform Risk Management Decisions. International Journal of Environmental Research and Public Health, 2021, 18, 13378.	1.2	8
34	Structure of Frequency Domain Models for Random Wave Breaking. , 1997, , 1144.		7
35	Evolution of high frequency waves in shoaling and breaking wave spectra. Physics of Fluids, 2019, 31, .	1.6	7
36	The Integrated Ocean Prediction System (IOPS). Oceanography, 2002, 15, 67-76.	0.5	7

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37	Using Genetic Algorithms to Optimize Bathymetric Sampling for Predictive Model Input. Journal of Atmospheric and Oceanic Technology, 2012, 29, 464-477.	0.5	5
38	Generation of long subharmonic internal waves by surface waves. Ocean Modelling, 2016, 106, 12-26.	1.0	5
39	Determining heterogeneous bottom friction distributions using a numerical wave model. Journal of Geophysical Research, 2007, 112, .	3.3	4
40	Nonlinear and directional effects on wave predictions over muddy bottoms: central chenier plain coast, Western Louisiana Shelf, USA. Ocean Dynamics, 2015, 65, 1567-1581.	0.9	4
41	On the Shoaling of Solitary Waves in the Presence of Short Random Waves. Journal of Physical Oceanography, 2015, 45, 792-806.	0.7	4
42	A consistent nonlinear mild-slope equation model. Coastal Engineering, 2021, 170, 104006.	1.7	4
43	Impacts of Hurricane Dorian on the Bahamas: field observations of hazard intensity and performance of the built environment. Coastal Engineering Journal, 2022, 64, 3-23.	0.7	3
44	Effects of Mode Truncation and Dissipation on Predictions of Higher Order Statistics. , 1997, , .		3
45	Optimization of Bathymetry Estimates for Nearshore Hydrodynamic Models Using Bayesian Methods. Journal of Waterway, Port, Coastal and Ocean Engineering, 2018, 144, 04018024.	0.5	2
46	The Interaction of Tsunamis With Ocean Swell: An Experimental Study. , 2011, , .		2
47	Wave Dissipation Mechanisms in Spectral Phase-Resolved Nonlinear Wave Models. , 2018, , 235-262.		2
48	A Comparison of the Energy Flux Computation of Shoaling Waves Using Hilbert and Wavelet Spectral Analysis Techniques. , 2005, , 83-95.		2
49	Refinements to an Optimized Model-Driven Bathymetry Deduction Algorithm. , 2002, , 924.		1
50	Chapter 2 Frequency domain wave models in the nearshore and surf zones. Elsevier Oceanography Series, 2003, 67, 43-72.	0.1	1
51	LABORATORY MEASUREMENTS OF WAVE ATTENUATION AND WAVE SETUP BY VEGETATION. , 2009, , .		1
52	Generation of oblique interfacial waves due to resonant interaction with surface gravity waves in shallow water. , 2011, , .		1
53	Parameterization of Maximum Significant Wave Heights in Coastal Regions due to Hurricanes. Journal of Waterway, Port, Coastal and Ocean Engineering, 2017, 143, 04016016.	0.5	1
54	Mechanics of Ocean Waves. , 2016, , 77-100.		1

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55	HILBERT SPECTRA OF NONLINEAR OCEAN WAVES. Interdisciplinary Mathematical Sciences, 2005, , 211-225.	0.4	1
56	PREDICTING THE INFLUENCE OF CLIMATE CHANGE ON HURRICANE FLOODING. , 2009, , .		1
57	Effect of Cold Frontâ€Induced Waves Along Wetlands Boundaries. Journal of Geophysical Research: Oceans, 2020, 125, e2020JC016603.	1.0	1
58	Comparisons of Remotely-Retrieved Directional Wave Spectra over a Large Area with a Shoaling-Wave Model. , 0, , .		0
59	Spectral Models Based on Boussinesq Equations. , 2006, , 1.		0
60	A Numerical Code for Waves in a Two-Layer Shallow Fluid. , 2014, , .		0
61	Modeling of Coastal Waves and Hydrodynamics. , 2016, , 597-610.		0
62	2015 Best Paper Award. Journal of Waterway, Port, Coastal and Ocean Engineering, 2017, 143, 01216001.	0.5	0
63	QUANTIFICATION OF THE WIND EFFECT ON WAVE BREAKING BASED ON A BOUSSINESQ WAVE MODEL. , 2003, , .		0
64	THE INFLUENCE OF SWELL ON THE SEA SURFACE ROUGHNESS AND THE GROWTH OF WIND WAVES. , 2005, , .		0
65	A HYBRID MODEL FOR NEARSHORE NONLINEAR WAVE EVOLUTION. , 2007, , .		0
66	SPATIAL EVOLUTION OF THE FREQUENCY DISTRIBUTION OF DISSIPATION AND IMPLICATIONS ON FREQUENCY DOMAIN MODELING. , 2009, , .		0
67	Combined Random Swell and Transient Long Waves: Dissipation Characteristics. , 2013, , .		0