

Yonggang Liu

List of Publications by Year in descending order

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Version: 2024-02-01

73
papers

3,516
citations

126907

33
h-index

155660

55
g-index

76
all docs

76
docs citations

76
times ranked

3106
citing authors

#	ARTICLE	IF	CITATIONS
1	Rectification of the Bias in the Wavelet Power Spectrum. Journal of Atmospheric and Oceanic Technology, 2007, 24, 2093-2102.	1.3	373
2	Performance evaluation of the self-organizing map for feature extraction. Journal of Geophysical Research, 2006, 111, .	3.3	255
3	Patterns of ocean current variability on the West Florida Shelf using the self-organizing map. Journal of Geophysical Research, 2005, 110, .	3.3	187
4	A model study of tide- and wind-induced mixing in the Columbia River Estuary and plume. Continental Shelf Research, 2009, 29, 278-291.	1.8	146
5	Tracking the Deepwater Horizon Oil Spill: A Modeling Perspective. Eos, 2011, 92, 45-46.	0.1	126
6	Did the northeastern Gulf of Mexico become greener after the Deepwater Horizon oil spill?. Geophysical Research Letters, 2011, 38, .	4.0	117
7	A Review of Self-Organizing Map Applications in Meteorology and Oceanography. , 0, , .		110
8	Evaluation of trajectory modeling in different dynamic regions using normalized cumulative Lagrangian separation. Journal of Geophysical Research, 2011, 116, .	3.3	109
9	Assessment of CODAR SeaSonde and WERA HF Radars in Mapping Surface Currents on the West Florida Shelf*. Journal of Atmospheric and Oceanic Technology, 2014, 31, 1363-1382.	1.3	81
10	Ocean Currents and Sea Surface Heights Estimated across the West Florida Shelf. Journal of Physical Oceanography, 2007, 37, 1697-1713.	1.7	79
11	Seasonal variability on the West Florida Shelf. Progress in Oceanography, 2012, 104, 80-98.	3.2	78
12	Evaluation of altimetry-derived surface current products using Lagrangian drifter trajectories in the eastern Gulf of Mexico. Journal of Geophysical Research: Oceans, 2014, 119, 2827-2842.	2.6	76
13	The Coastal Ocean Circulation Influence on the 2018 West Florida Shelf <sc>K</sc>. <i>brevis</i> Red Tide Bloom. Journal of Geophysical Research: Oceans, 2019, 124, 2501-2512.	2.6	74
14	Patterns of the loop current system and regions of sea surface height variability in the eastern Gulf of Mexico revealed by the self-organizing maps. Journal of Geophysical Research: Oceans, 2016, 121, 2347-2366.	2.6	71
15	Current Patterns on the West Florida Shelf from Joint Self-Organizing Map Analyses of HF Radar and ADCP Data. Journal of Atmospheric and Oceanic Technology, 2007, 24, 702-712.	1.3	69
16	HF Radar Performance in a Low-Energy Environment: CODAR SeaSonde Experience on the West Florida Shelf*. Journal of Atmospheric and Oceanic Technology, 2010, 27, 1689-1710.	1.3	69
17	Sea Surface Temperature Patterns on the West Florida Shelf Using Growing Hierarchical Self-Organizing Maps. Journal of Atmospheric and Oceanic Technology, 2006, 23, 325-338.	1.3	68
18	Evaluation of a coastal ocean circulation model for the Columbia River plume in summer 2004. Journal of Geophysical Research, 2009, 114, .	3.3	60

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19	Why no red tide was observed on the West Florida Continental Shelf in 2010. <i>Harmful Algae</i> , 2014, 38, 119-126.	4.8	59
20	Columbia River plume patterns in summer 2004 as revealed by a hindcast coastal ocean circulation model. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	55
21	Offshore forcing on the "pressure point" of the West Florida Shelf: Anomalous upwelling and its influence on harmful algal blooms. <i>Journal of Geophysical Research: Oceans</i> , 2016, 121, 5501-5515.	2.6	55
22	On the Loop Current Penetration into the Gulf of Mexico. <i>Journal of Geophysical Research: Oceans</i> , 2017, 122, 9679-9694.	2.6	55
23	Momentum balance diagnoses for the West Florida Shelf. <i>Continental Shelf Research</i> , 2005, 25, 2054-2074.	1.8	53
24	Comparison of the X-TRACK altimetry estimated currents with moored ADCP and HF radar observations on the West Florida Shelf. <i>Advances in Space Research</i> , 2012, 50, 1085-1098.	2.6	53
25	On the movement of Deepwater Horizon Oil to northern Gulf beaches. <i>Ocean Modelling</i> , 2017, 111, 81-97.	2.4	50
26	The Kuroshio East of Taiwan and in the East China Sea and the currents East of Ryukyu Islands during early summer of 1996. <i>Journal of Oceanography</i> , 1998, 54, 217-226.	1.7	48
27	West Florida Shelf mean circulation observed with long-term moorings. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	45
28	Interaction between the East China Sea Kuroshio and the Ryukyu Current as revealed by the self-organizing map. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	43
29	Trajectory Forecast as a Rapid Response to the Deepwater Horizon Oil Spill. <i>Geophysical Monograph Series</i> , 2011, , 153-165.	0.1	43
30	Instabilities and Multiscale Interactions Underlying the Loop Current Eddy Shedding in the Gulf of Mexico. <i>Journal of Physical Oceanography</i> , 2020, 50, 1289-1317.	1.7	42
31	West Florida Shelf Circulation on Synoptic, Seasonal, and Interannual Time Scales. <i>Geophysical Monograph Series</i> , 0, , 325-347.	0.1	41
32	Monitoring and Modeling the Deepwater Horizon Oil Spill: A Record-Breaking Enterprise. <i>Geophysical Monograph Series</i> , 2011, , .	0.1	41
33	Coastal ocean wind fields gauged against the performance of an ocean circulation model. <i>Geophysical Research Letters</i> , 2004, 31, .	4.0	40
34	Did Deepwater Horizon hydrocarbons transit to the west Florida continental shelf?. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2016, 129, 259-272.	1.4	40
35	<i>Karenia brevis</i> blooms on the West Florida Shelf: A comparative study of the robust 2012 bloom and the nearly null 2013 event. <i>Continental Shelf Research</i> , 2016, 120, 106-121.	1.8	36
36	West Florida shelf upwelling: Origins and pathways. <i>Journal of Geophysical Research: Oceans</i> , 2016, 121, 5672-5681.	2.6	35

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37	Comparisons of different ensemble schemes for glider data assimilation on West Florida Shelf. <i>Ocean Modelling</i> , 2014, 81, 13-24.	2.4	32
38	Evolution of the Loop Current System During the Deepwater Horizon Oil Spill Event as Observed With Drifters and Satellites. <i>Geophysical Monograph Series</i> , 2011, , 91-101.	0.1	31
39	Surface Drift Predictions of the Deepwater Horizon Spill: The Lagrangian Perspective. <i>Geophysical Monograph Series</i> , 2011, , 179-195.	0.1	26
40	Submesoscale and Mesoscale Eddies in the Florida Straits: Observations from Satellite Ocean Color Measurements. <i>Geophysical Research Letters</i> , 2019, 46, 13262-13270.	4.0	26
41	Ocean Circulation in the Western Gulf of Mexico Using Self-Organizing Maps. <i>Journal of Geophysical Research: Oceans</i> , 2019, 124, 4152-4167.	2.6	25
42	Circulation in the South China Sea in summer of 1998. <i>Science Bulletin</i> , 2000, 45, 1648-1655.	1.7	22
43	Statistical simulation of ocean current patterns using autoregressive logistic regression models: A case study in the Gulf of Mexico. <i>Ocean Modelling</i> , 2019, 136, 1-12.	2.4	20
44	Eddies Connect the Tropical Atlantic Ocean and the Gulf of Mexico. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL091277.	4.0	20
45	The Tampa Bay Coastal Ocean Model Performance for Hurricane Irma. <i>Marine Technology Society Journal</i> , 2018, 52, 33-42.	0.4	20
46	Introduction to Coastal Ocean Observing Systems. , 2015, , 1-10.		19
47	Impacts of Hurricane Irma on the Circulation and Transport in Florida Bay and the Charlotte Harbor Estuary. <i>Estuaries and Coasts</i> , 2020, 43, 1194-1216.	2.2	19
48	Real-time quality control of current velocity data on individual grid cells in WERA HF radar. , 2014, , .		18
49	Initial estuarine response to inorganic nutrient inputs from a legacy mining facility adjacent to Tampa Bay, Florida. <i>Marine Pollution Bulletin</i> , 2022, 178, 113598.	5.0	18
50	Tracking Subsurface Oil in the Aftermath of the Deepwater Horizon Well Blowout. <i>Geophysical Monograph Series</i> , 2011, , 205-215.	0.1	17
51	Winds on the West Florida Shelf: Regional comparisons between observations and model estimates. <i>Journal of Geophysical Research: Oceans</i> , 2017, 122, 834-846.	2.6	17
52	Ten years of modeling the Deepwater Horizon oil spill. <i>Environmental Modelling and Software</i> , 2021, 142, 105070.	4.5	17
53	Evaluation of Satellite-Derived SST Products in Identifying the Rapid Temperature Drop on the West Florida Shelf Associated With Hurricane Irma. <i>Marine Technology Society Journal</i> , 2018, 52, 43-50.	0.4	15
54	On the Momentum Balance of Tampa Bay. <i>Journal of Geophysical Research: Oceans</i> , 2019, 124, 4492-4510.	2.6	14

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55	On the Evolution of the Gulf of Mexico Loop Current Through Its Penetrative, Ring Shedding and Retracted States. <i>Advances in Space Research</i> , 2022, 69, 4058-4077.	2.6	14
56	A Critique of Alternative Power Generation for Florida by Mechanical and Solar Means. <i>Marine Technology Society Journal</i> , 2012, 46, 12-23.	0.4	13
57	Spatial and Temporal Characteristics of the Submesoscale Energetics in the Gulf of Mexico. <i>Journal of Physical Oceanography</i> , 2021, 51, 475-489.	1.7	13
58	Basic Tenets for Coastal Ocean Ecosystems Monitoring. , 2015, , 40-57.		13
59	Evolution of the USF/CMS CODAR and WERA HF radar network. , 2012, , .		12
60	Local And Deep-Ocean Forcing Effects on the West Florida Continental Shelf Circulation and Ecology. <i>Frontiers in Marine Science</i> , 0, 9, .	2.5	11
61	Towards integrated modeling of the long-term impacts of oil spills. <i>Marine Policy</i> , 2021, 131, 104554.	3.2	10
62	Transport Processes in the Gulf of Mexico Along the River-Estuary-Shelf-Ocean Continuum: a Review of Research from the Gulf of Mexico Research Initiative. <i>Estuaries and Coasts</i> , 2022, 45, 621-657.	2.2	10
63	Initial surface current measurements on the West Florida shelf using WERA HF ocean radar with multiple input multiple output (MIMO) synthetic aperture. , 2014, , .		9
64	Glider Salinity Correction for Unpumped CTD Sensors across a Sharp Thermocline. , 2015, , 305-325.		8
65	Effect of Radio Frequency Interference (RFI) Noise Energy on WERA Performance Using the "Listen Before Talk" Adaptive Noise Procedure on the West Florida Shelf. , 2015, , 229-247.		8
66	Termination of the 2018 Florida red tide event: A tracer model perspective. <i>Estuarine, Coastal and Shelf Science</i> , 2022, 272, 107901.	2.1	8
67	Introduction to Monitoring and Modeling the Deepwater Horizon Oil Spill. <i>Geophysical Monograph Series</i> , 2011, , 1-7.	0.1	6
68	Improvements in ocean surface radar applications through real-time data quality-control. , 2015, , .		6
69	Remote silicate supply regulates spring phytoplankton bloom magnitude in the Gulf of Maine. <i>Limnology and Oceanography Letters</i> , 2022, 7, 277-285.	3.9	6
70	Combining numerical ocean circulation models with satellite observations in a trajectory forecast system: a rapid response to the Deepwater Horizon oil spill. , 2011, , .		5
71	Data Return Aspects of CODAR and WERA High-Frequency Radars in Mapping Currents. <i>Springer Oceanography</i> , 2018, , 227-240.	0.3	1
72	Satellites, models combine to track Deepwater Horizon oil spill. <i>SPIE Newsroom</i> , 0, , .	0.1	1

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73	Physical Characteristics and Evolution of a Long-Lasting Mesoscale Cyclonic Eddy in the Straits of Florida. <i>Frontiers in Marine Science</i> , 2022, 9, .	2.5	1