

Ruoying He

List of Publications by Year in descending order

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110
papers

4,854
citations

81839

39
h-index

106281

65
g-index

118
all docs

118
docs citations

118
times ranked

5149
citing authors

#	ARTICLE	IF	CITATIONS
1	Development of a Coupled Ocean-Atmosphere-Wave-Sediment Transport (COAWST) Modeling System. <i>Ocean Modelling</i> , 2010, 35, 230-244.	1.0	643
2	US GODAE: Global Ocean Prediction with the HYbrid Coordinate Ocean Model (HYCOM). <i>Oceanography</i> , 2009, 22, 64-75.	0.5	374
3	Ocean-atmosphere dynamics during Hurricane Ida and Nor TM Ida: An application of the coupled ocean-atmosphere-wave-sediment transport (COAWST) modeling system. <i>Ocean Modelling</i> , 2012, 43-44, 112-137.	1.0	125
4	Phytoplankton response to intrusions of slope water on the West Florida Shelf: Models and observations. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	110
5	Local and deep-ocean forcing contributions to anomalous water properties on the West Florida Shelf. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	110
6	Dispersal of Deep-Sea Larvae from the Intra-American Seas: Simulations of Trajectories using Ocean Models. <i>Integrative and Comparative Biology</i> , 2012, 52, 483-496.	0.9	103
7	Tracking the long-distance dispersal of marine organisms: sensitivity to ocean model resolution. <i>Journal of the Royal Society Interface</i> , 2013, 10, 20120979.	1.5	101
8	West Florida shelf circulation and temperature budget for the 1999 spring transition. <i>Continental Shelf Research</i> , 2002, 22, 719-748.	0.9	98
9	Initial observations of the 2005 <i>Alexandrium fundyense</i> bloom in southern New England: General patterns and mechanisms. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2005, 52, 2856-2876.	0.6	98
10	Increasing Mississippi river discharge throughout the 21st century influenced by changes in climate, land use, and atmospheric CO ₂ . <i>Geophysical Research Letters</i> , 2014, 41, 4978-4986.	1.5	96
11	An integrated ocean circulation, wave, atmosphere, and marine ecosystem prediction system for the South Atlantic Bight and Gulf of Mexico. <i>Journal of Operational Oceanography</i> , 2015, 8, 80-91.	0.6	95
12	Investigation of hurricane Ivan using the coupled ocean-atmosphere-wave-sediment transport (COAWST) model. <i>Ocean Dynamics</i> , 2014, 64, 1535-1554.	0.9	92
13	Suppression of the 2010 <i>Alexandrium fundyense</i> bloom by changes in physical, biological, and chemical properties of the Gulf of Maine. <i>Limnology and Oceanography</i> , 2011, 56, 2411-2426.	1.6	82
14	Modeling transport and deposition of the Mekong River sediment. <i>Continental Shelf Research</i> , 2012, 37, 66-78.	0.9	77
15	A Loop Current Intrusion Case Study on the West Florida Shelf*. <i>Journal of Physical Oceanography</i> , 2003, 33, 465-477.	0.7	76
16	The influence of droplet size and biodegradation on the transport of subsurface oil droplets during the <i>Deepwater Horizon</i> spill: a model sensitivity study. <i>Environmental Research Letters</i> , 2015, 10, 024016.	2.2	72
17	The future of coastal and estuarine modeling: Findings from a workshop. <i>Ocean Modelling</i> , 2019, 143, 101458.	1.0	72
18	Modeling ocean circulation and biogeochemical variability in the Gulf of Mexico. <i>Biogeosciences</i> , 2013, 10, 7219-7234.	1.3	70

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19	Sea Surface Temperature Patterns on the West Florida Shelf Using Growing Hierarchical Self-Organizing Maps. <i>Journal of Atmospheric and Oceanic Technology</i> , 2006, 23, 325-338.	0.5	68
20	Tides on the West Florida Shelf. <i>Journal of Physical Oceanography</i> , 2002, 32, 3455-3473.	0.7	67
21	Historic 2005 toxic bloom of <i>Alexandrium fundyense</i> in the western Gulf of Maine: 2. Coupled biophysical numerical modeling. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	66
22	River-derived sediment suspension and transport in the Bohai, Yellow, and East China Seas: A preliminary modeling study. <i>Continental Shelf Research</i> , 2015, 111, 112-125.	0.9	66
23	Investigation of the 2006 <i>Alexandrium fundyense</i> bloom in the Gulf of Maine: In-situ observations and numerical modeling. <i>Continental Shelf Research</i> , 2009, 29, 2069-2082.	0.9	65
24	Simulating Oil Droplet Dispersal From the Deepwater Horizon Spill With a Lagrangian Approach. <i>Geophysical Monograph Series</i> , 2011, , 217-226.	0.1	60
25	Spatial and temporal variability of SST and ocean color in the Gulf of Maine based on cloud-free SST and chlorophyll reconstructions in 2003–2012. <i>Remote Sensing of Environment</i> , 2014, 144, 98-108.	4.6	59
26	Coastal upwelling in the South Atlantic Bight: A revisit of the 2003 cold event using long term observations and model hindcast solutions. <i>Journal of Marine Systems</i> , 2010, 83, 1-13.	0.9	57
27	West Florida shelf circulation and temperature budget for the 1998 fall transition. <i>Continental Shelf Research</i> , 2003, 23, 777-800.	0.9	56
28	Century-long increasing trend and variability of dissolved organic carbon export from the Mississippi River basin driven by natural and anthropogenic forcing. <i>Global Biogeochemical Cycles</i> , 2016, 30, 1288-1299.	1.9	53
29	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.	1.0	50
30	Development and validation of a regional-scale high-resolution unstructured model for wave energy resource characterization along the US East Coast. <i>Renewable Energy</i> , 2019, 136, 500-511.	4.3	49
31	Saharan dust and phosphatic fidelity: A three-dimensional biogeochemical model of <i>Trichodesmium</i> as a nutrient source for red tides on the West Florida Shelf. <i>Continental Shelf Research</i> , 2008, 28, 1091-1115.	0.9	47
32	Isotopic evidence for dead fish maintenance of Florida red tides, with implications for coastal fisheries over both source regions of the West Florida shelf and within downstream waters of the South Atlantic Bight. <i>Progress in Oceanography</i> , 2009, 80, 51-73.	1.5	47
33	Numerical Investigation of the Middle Atlantic Bight Shelfbreak Frontal Circulation Using a High-Resolution Ocean Hindcast Model. <i>Journal of Physical Oceanography</i> , 2010, 40, 949-964.	0.7	46
34	Climate extremes dominating seasonal and interannual variations in carbon export from the Mississippi River Basin. <i>Global Biogeochemical Cycles</i> , 2015, 29, 1333-1347.	1.9	46
35	Temporal and spatial variability of Chl-a and SST on the South Atlantic Bight: Revisiting with cloud-free reconstructions of MODIS satellite imagery. <i>Continental Shelf Research</i> , 2010, 30, 1951-1962.	0.9	45
36	Coastal Ocean Forecasting: system integration and evaluation. <i>Journal of Operational Oceanography</i> , 2015, 8, s127-s146.	0.6	44

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37	Predicting the distribution of oceanic-stage Kemp's ridley sea turtles. <i>Biology Letters</i> , 2013, 9, 20130345.	1.0	43
38	Dispersion of a tracer in the deep Gulf of Mexico. <i>Journal of Geophysical Research: Oceans</i> , 2016, 121, 1110-1132.	1.0	42
39	Satellite estimation of coastal pCO ₂ and air-sea flux of carbon dioxide in the northern Gulf of Mexico. <i>Remote Sensing of Environment</i> , 2018, 207, 71-83.	4.6	42
40	West Florida Shelf Circulation on Synoptic, Seasonal, and Interannual Time Scales. <i>Geophysical Monograph Series</i> , 0, , 325-347.	0.1	41
41	A red tide of <i>Alexandrium fundyense</i> in the Gulf of Maine. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2014, 103, 174-184.	0.6	41
42	Coastal ocean wind fields gauged against the performance of an ocean circulation model. <i>Geophysical Research Letters</i> , 2004, 31, .	1.5	40
43	Impact of mesoscale eddies on Kuroshio intrusion variability northeast of Taiwan. <i>Journal of Geophysical Research: Oceans</i> , 2017, 122, 3021-3040.	1.0	40
44	A cloud-free, satellite-derived, sea surface temperature analysis for the West Florida Shelf. <i>Geophysical Research Letters</i> , 2003, 30, .	1.5	39
45	Large increase in dissolved inorganic carbon flux from the Mississippi River to Gulf of Mexico due to climatic and anthropogenic changes over the 21st century. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2015, 120, 724-736.	1.3	38
46	Barotropic tides on the southeast New England shelf: A view from a hybrid data assimilative modeling approach. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	36
47	Potential connectivity among spatially distinct management zones for Bonefish (<i>Albula vulpes</i>) via larval dispersal. <i>Environmental Biology of Fishes</i> , 2019, 102, 233-252.	0.4	35
48	Predictability of the Loop Current Variation and Eddy Shedding Process in the Gulf of Mexico Using an Artificial Neural Network Approach. <i>Journal of Atmospheric and Oceanic Technology</i> , 2015, 32, 1098-1111.	0.5	34
49	Marine Hydrokinetic Energy from Western Boundary Currents. <i>Annual Review of Marine Science</i> , 2017, 9, 105-123.	5.1	33
50	Decadal simulation and comprehensive evaluation of CESM-CAM5.1 with advanced chemistry, aerosol microphysics, and aerosol-cloud interactions. <i>Journal of Advances in Modeling Earth Systems</i> , 2015, 7, 110-141.	1.3	32
51	Gulf Stream variability and a triggering mechanism of its large meander in the South Atlantic Bight. <i>Journal of Geophysical Research: Oceans</i> , 2016, 121, 8021-8038.	1.0	32
52	Characterization of Extreme Wave Conditions for Wave Energy Converter Design and Project Risk Assessment. <i>Journal of Marine Science and Engineering</i> , 2020, 8, 289.	1.2	30
53	Effect of the Gulf Stream on winter extratropical cyclone outbreaks. <i>Atmospheric Science Letters</i> , 2012, 13, 311-316.	0.8	29
54	Tropical to extratropical: Marine environmental changes associated with Superstorm Sandy prior to its landfall. <i>Geophysical Research Letters</i> , 2014, 41, 8935-8943.	1.5	29

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55	The response of inorganic carbon distributions and dynamics to upwelling-favorable winds on the northern Gulf of Mexico during summer. <i>Continental Shelf Research</i> , 2015, 111, 211-222.	0.9	29
56	M2 tidal dynamics in Bohai and Yellow Seas: a hybrid data assimilative modeling study. <i>Ocean Dynamics</i> , 2012, 62, 753-769.	0.9	25
57	Nearshore wave energy resource characterization along the East Coast of the United States. <i>Renewable Energy</i> , 2021, 172, 1212-1224.	4.3	24
58	Coastal Ocean Circulation Influences on Remotely Sensed Optical Properties: A West Florida Shelf Case Study. <i>Oceanography</i> , 2004, 17, 68-75.	0.5	24
59	Clustering of Loop Current patterns based on the satellite-observed sea surface height and self-organizing map. <i>Remote Sensing Letters</i> , 2015, 6, 11-19.	0.6	23
60	Modeling the influence of deep water application of dispersants on the surface expression of oil: A sensitivity study. <i>Journal of Geophysical Research: Oceans</i> , 2016, 121, 5995-6008.	1.0	23
61	Storm impact on sea surface temperature and chlorophyll <i>a</i> in the Gulf of Mexico and Sargasso Sea based on daily cloud-free satellite data reconstructions. <i>Geophysical Research Letters</i> , 2016, 43, 12,199.	1.5	22
62	Modeling CO_2 variability in the Gulf of Mexico. <i>Biogeosciences</i> , 2016, 13, 4359-4377.	1.3	21
63	Statistical validation of a 3-D bio-physical model of the western North Atlantic. <i>Biogeosciences</i> , 2009, 6, 1961-1974.	1.3	21
64	Dispersal of the Suwannee River plume over the West Florida shelf: Simulation and observation of the optical and biochemical consequences of a flushing event. <i>Geophysical Research Letters</i> , 2003, 30, .	1.5	20
65	Data assimilative hindcast of the Gulf of Maine coastal circulation. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	20
66	Air-sea interactions during strong winter extratropical storms. <i>Ocean Dynamics</i> , 2014, 64, 1233-1246.	0.9	20
67	Seasonal and interannual variability in Gulf of Maine hydrodynamics: 2002-2011. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2014, 103, 210-222.	0.6	19
68	The influence of larval migration and dispersal depth on potential larval trajectories of a deep-sea bivalve. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2017, 127, 57-64.	0.6	19
69	Advancing coastal ocean modelling, analysis, and prediction for the US Integrated Ocean Observing System. <i>Journal of Operational Oceanography</i> , 2017, 10, 115-126.	0.6	18
70	Predicting ocean waves along the US east coast during energetic winter storms: sensitivity to whitecapping parameterizations. <i>Ocean Science</i> , 2019, 15, 691-715.	1.3	18
71	Characterizing the South Atlantic Bight seasonal variability and cold-water event in 2003 using a daily cloud-free SST and chlorophyll analysis. <i>Geophysical Research Letters</i> , 2009, 36, .	1.5	17
72	Mesoscale variations of sea surface temperature and ocean color patterns at the Mid-Atlantic Bight shelfbreak. <i>Geophysical Research Letters</i> , 2010, 37, .	1.5	17

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73	Cloud-free sea surface temperature and colour reconstruction for the Gulf of Mexico: 2003â€“2009. Remote Sensing Letters, 2012, 3, 697-706.	0.6	17
74	A three-dimensional biophysical model of <i>Karenia brevis</i> dynamics on the west Florida shelf: A look at physical transport and potential zooplankton grazing controls. Continental Shelf Research, 2008, 28, 112-136.	0.9	16
75	Mapping the Soundscape Off the Southeastern USA by Using Passive Acoustic Glider Technology. Marine and Coastal Fisheries, 2017, 9, 23-37.	0.6	16
76	Variability of Changjiang Diluted Water revealed by a 45-year long-term ocean hindcast and Self-Organizing Maps analysis. Continental Shelf Research, 2017, 146, 37-46.	0.9	16
77	Spatial and Temporal Variability of CO_2 , Carbon Fluxes, and Saturation State on the West Florida Shelf. Journal of Geophysical Research: Oceans, 2018, 123, 6174-6188.	1.0	16
78	Coastal connectivity in the Gulf of Maine in spring and summer of 2004â€“2009. Deep-Sea Research Part II: Topical Studies in Oceanography, 2014, 103, 199-209.	0.6	15
79	Mean circulation in the coastal ocean off northeastern North America from a regional-scale ocean model. Ocean Science, 2015, 11, 503-517.	1.3	15
80	Connectivity in the Intra-American Seas and implications for potential larval transport. Coral Reefs, 2015, 34, 403-417.	0.9	15
81	The economics of electricity generation from Gulf Stream currents. Energy, 2017, 134, 649-658.	4.5	15
82	Ocean currents and competitive strength interact to cluster benthic species range boundaries in the coastal ocean. Marine Ecology - Progress Series, 2017, 567, 29-40.	0.9	15
83	Seasonal and interannual variability of physical and biological dynamics at the shelfbreak front of the Middle Atlantic Bight: nutrient supply mechanisms. Biogeosciences, 2011, 8, 2935-2946.	1.3	13
84	Development and calibration of a high-resolution model for the Gulf of Mexico, Puerto Rico, and the U.S. Virgin Islands: Implication for wave energy resource characterization. Ocean Engineering, 2021, 235, 109304.	1.9	13
85	Historic 2005 toxic bloom of <i>Alexandrium fundyense</i> in the west Gulf of Maine: 1. In situ observations of coastal hydrography and circulation. Journal of Geophysical Research, 2008, 113, .	3.3	12
86	Mesoscale eddies in the South Atlantic Bight. Journal of Geophysical Research: Oceans, 2013, 118, 5720-5731.	1.0	12
87	Variational data assimilative modeling of the Gulf of Maine in spring and summer 2010. Journal of Geophysical Research: Oceans, 2015, 120, 3522-3541.	1.0	10
88	Third-order WENO transport scheme for simulating the baroclinic eddying ocean on an unstructured grid. Ocean Modelling, 2019, 143, 101466.	1.0	10
89	Towards integrated modeling of the long-term impacts of oil spills. Marine Policy, 2021, 131, 104554.	1.5	10
90	Impacts of Air-sea Interactions on Regional Air Quality Predictions Using a Coupled Atmosphere-ocean Model in Southeastern U.S.. Aerosol and Air Quality Research, 2018, 18, 1044-1067.	0.9	10

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91	Overview of the Processes Driving Exchange at Cape Hatteras Program. <i>Oceanography</i> , 2022, , .	0.5	10
92	Mesoscale and submesoscale mechanisms behind asymmetric cooling and phytoplankton blooms induced by hurricanes: a comparison between an open ocean case and a continental shelf sea case. <i>Ocean Dynamics</i> , 2018, 68, 1443-1456.	0.9	9
93	Variability in along-shelf and cross-shelf circulation in the South Atlantic Bight. <i>Continental Shelf Research</i> , 2017, 134, 52-62.	0.9	8
94	Dynamics of an intense <i>Alexandrium catenella</i> red tide in the Gulf of Maine: satellite observations and numerical modeling. <i>Harmful Algae</i> , 2020, 99, 101927.	2.2	8
95	Numerical investigation of coastal circulation dynamics near Cape Hatteras, North Carolina, in January 2005. <i>Ocean Dynamics</i> , 2015, 65, 1-15.	0.9	7
96	Climate projections of spatial variations in coastal storm surges along the Gulf of Mexico and U.S. east coast. <i>Journal of Ocean University of China</i> , 2017, 16, 1-7.	0.6	7
97	Gulf stream marine hydrokinetic energy resource characterization off Cape Hatteras, North Carolina USA. , 2016, , .		5
98	Statistical downscaling of IPCC sea surface wind and wind energy predictions for U.S. east coastal ocean, Gulf of Mexico and Caribbean Sea. <i>Journal of Ocean University of China</i> , 2016, 15, 577-582.	0.6	4
99	Impact of SST and Surface Waves on Hurricane Florence (2018): A Coupled Modeling Investigation. <i>Weather and Forecasting</i> , 2021, 36, 1713-1734.	0.5	4
100	A coastal ocean observing system and modeling program for the West Florida Shelf. , 0, , .		3
101	Physical and Biochemical Structure Measured by APEX-EM Floats. , 2019, , .		3
102	Marine Hydrokinetic Energy in the Gulf Stream Off North Carolina: An Assessment Using Observations and Ocean Circulation Models. , 2017, , 237-258.		3
103	Cross-Shelf Exchange Associated With the Gulf Stream in the South Atlantic Bight: Direct Observations Using an Autonomous Underwater Glider. <i>Marine Technology Society Journal</i> , 2018, 52, 19-27.	0.3	3
104	Editorialâ€”The 3rd International Workshop on Modeling the Ocean (IWMO 2011). <i>Ocean Dynamics</i> , 2013, 63, 307-309.	0.9	2
105	Effects of Ocean Optical Properties and Solar Attenuation on the Northwestern Atlantic Ocean Heat Content and Hurricane Intensity. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL094171.	1.5	2
106	Observation and regional model based Gulf Stream marine hydrokinetic energy resource estimates for North Carolina. , 2015, , .		1
107	Modeling of West Florida Shelf Circulation for Spring 1999. , 2002, , 35.		0
108	Monitoring the Gulf Stream and shelf environment in the South Atlantic Bight through integrated autonomous underwater glider observations and data assimilative ocean model predictions. , 2016, , .		0

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109	Observation and regional model based Gulf Stream marine hydrokinetic energy resource estimates for North Carolina. , 2015, , .		0
110	Hurricane-Induced Oceanic Carbon Changes in the Upper Ocean. Oceans, 2022, 3, 114-124.	0.6	0