

# Isaac Ginis

## List of Publications by Year in descending order

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Version: 2024-02-01

59  
papers

3,183  
citations

201674

27  
h-index

155660

55  
g-index

59  
all docs

59  
docs citations

59  
times ranked

2269  
citing authors

#	ARTICLE	IF	CITATIONS
1	Assessment of hurricane generated loads on offshore wind farms; a closer look at most extreme historical hurricanes in New England. <i>Renewable Energy</i> , 2021, 175, 593-609.	8.9	6
2	Flood risk in past and future: A case study for the Pawtuxet River's record-breaking March 2010 flood event. <i>Journal of Flood Risk Management</i> , 2020, 13, e12655.	3.3	4
3	Potential effect of bio-surfactants on sea spray generation in tropical cyclone conditions. <i>Scientific Reports</i> , 2020, 10, 19057.	3.3	4
4	Impact of Shoaling Ocean Surface Waves on Wind Stress and Drag Coefficient in Coastal Waters: 2. Tropical Cyclones. <i>Journal of Geophysical Research: Oceans</i> , 2020, 125, e2020JC016223.	2.6	5
5	Impact of Shoaling Ocean Surface Waves on Wind Stress and Drag Coefficient in Coastal Waters: 1. Uniform Wind. <i>Journal of Geophysical Research: Oceans</i> , 2020, 125, e2020JC016222.	2.6	6
6	Assessing the Multiple Impacts of Extreme Hurricanes in Southern New England, USA. <i>Geosciences (Switzerland)</i> , 2019, 9, 265.	2.2	13
7	Hurricane Model Development at GFDL: A Collaborative Success Story from a Historical Perspective. <i>Bulletin of the American Meteorological Society</i> , 2019, 100, 1725-1736.	3.3	9
8	Wind-Wave Misalignment Effects on Langmuir Turbulence in Tropical Cyclone Conditions. <i>Journal of Physical Oceanography</i> , 2019, 49, 3109-3126.	1.7	14
9	Developing Consequence Thresholds for Storm Models Through Participatory Processes: Case Study of Westerly Rhode Island. <i>Frontiers in Earth Science</i> , 2019, 7, .	1.8	3
10	Role of Hurricane Wind Models in Accurate Simulation of Storm Surge and Waves. <i>Journal of Waterway, Port, Coastal and Ocean Engineering</i> , 2019, 145, .	1.2	32
11	Hydrological modeling of storm runoff and snowmelt in Taunton River Basin by applications of HEC-HMS and PRMS models. <i>Natural Hazards</i> , 2018, 91, 179-199.	3.4	22
12	Real-Time Chronological Hazard Impact Modeling. <i>Journal of Marine Science and Engineering</i> , 2018, 6, 134.	2.6	9
13	Interaction of Langmuir Turbulence and Inertial Currents in the Ocean Surface Boundary Layer under Tropical Cyclones. <i>Journal of Physical Oceanography</i> , 2018, 48, 1921-1940.	1.7	12
14	Sensitivity of Offshore Tropical Cyclone Wave Simulations to Spatial Resolution in Wave Models. <i>Journal of Marine Science and Engineering</i> , 2018, 6, 116.	2.6	9
15	On the Characteristics of Linear-Phase Roll Vortices under a Moving Hurricane Boundary Layer. <i>Journals of the Atmospheric Sciences</i> , 2018, 75, 2589-2598.	1.7	9
16	Is the State of the Air-Sea Interface a Factor in Rapid Intensification and Rapid Decline of Tropical Cyclones?. <i>Journal of Geophysical Research: Oceans</i> , 2017, 122, 10174-10183.	2.6	15
17	Characteristics of river flood and storm surge interactions in a tidal river in Rhode Island, USA. <i>Procedia IUTAM</i> , 2017, 25, 60-64.	1.2	10
18	Effect of Boundary Layer Roll Vortices on the Development of an Axisymmetric Tropical Cyclone. <i>Journals of the Atmospheric Sciences</i> , 2017, 74, 2737-2759.	1.7	19

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19	Impact of Upper-Tropospheric Temperature Anomalies and Vertical Wind Shear on Tropical Cyclone Evolution Using an Idealized Version of the Operational GFDL Hurricane Model. <i>Journals of the Atmospheric Sciences</i> , 2016, 73, 3803-3820.	1.7	29
20	Impact of Sea-State-Dependent Langmuir Turbulence on the Ocean Response to a Tropical Cyclone. <i>Monthly Weather Review</i> , 2016, 144, 4569-4590.	1.4	28
21	Langmuir Turbulence Parameterization in Tropical Cyclone Conditions. <i>Journal of Physical Oceanography</i> , 2016, 46, 863-886.	1.7	57
22	On the Equilibrium-State Roll Vortices and Their Effects in the Hurricane Boundary Layer. <i>Journals of the Atmospheric Sciences</i> , 2016, 73, 1205-1222.	1.7	27
23	Langmuir Turbulence under Hurricane Gustav (2008). <i>Journal of Physical Oceanography</i> , 2015, 45, 657-677.	1.7	27
24	Ocean modeling with flexible initialization for improved coupled tropical cyclone-ocean model prediction. <i>Environmental Modelling and Software</i> , 2015, 67, 26-30.	4.5	18
25	Description and Analysis of the Ocean Component of NOAA's Operational Hurricane Weather Research and Forecasting Model (HWRF). <i>Journal of Atmospheric and Oceanic Technology</i> , 2015, 32, 144-163.	1.3	54
26	On the Generation of Roll Vortices due to the Inflection Point Instability of the Hurricane Boundary Layer Flow. <i>Journals of the Atmospheric Sciences</i> , 2014, 71, 4292-4307.	1.7	25
27	Tropical Cyclone-Induced Thermocline Warming and Its Regional and Global Impacts. <i>Journal of Climate</i> , 2014, 27, 6978-6999.	3.2	35
28	Sea state dependence of the wind stress over the ocean under hurricane winds. <i>Journal of Geophysical Research: Oceans</i> , 2014, 119, 30-51.	2.6	53
29	The air-sea interface and surface stress under tropical cyclones. <i>Scientific Reports</i> , 2014, 4, 5306.	3.3	98
30	Aerosol Effects on Microstructure and Intensity of Tropical Cyclones. <i>Bulletin of the American Meteorological Society</i> , 2012, 93, 987-1001.	3.3	127
31	Impact of a Warm Ocean Eddy's Circulation on Hurricane-Induced Sea Surface Cooling with Implications for Hurricane Intensity. <i>Monthly Weather Review</i> , 2012, 141, 997-1021.	1.4	57
32	Experimental Tropical Cyclone Prediction Using the GFDL 25-km-Resolution Global Atmospheric Model. <i>Weather and Forecasting</i> , 2011, 26, 1008-1019.	1.4	27
33	Momentum Flux Budget across the Air-Sea Interface under Uniform and Tropical Cyclone Winds. <i>Journal of Physical Oceanography</i> , 2010, 40, 2221-2242.	1.7	24
34	Short- and Medium-Range Prediction of Tropical and Transitioning Cyclone Tracks within the NCEP Global Ensemble Forecasting System. <i>Weather and Forecasting</i> , 2010, 25, 1736-1754.	1.4	30
35	The Effect of Wind-Wave-Current Interaction on Air-Sea Momentum Fluxes and Ocean Response in Tropical Cyclones. <i>Journal of Physical Oceanography</i> , 2009, 39, 1019-1034.	1.7	121
36	Limitation of One-Dimensional Ocean Models for Coupled Hurricane-Ocean Model Forecasts. <i>Monthly Weather Review</i> , 2009, 137, 4410-4419.	1.4	108

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37	Numerical Simulations and Observations of Surface Wave Fields under an Extreme Tropical Cyclone. <i>Journal of Physical Oceanography</i> , 2009, 39, 2097-2116.	1.7	114
38	Improving the Ocean Initialization of Coupled Hurricane-Ocean Models Using Feature-Based Data Assimilation. <i>Monthly Weather Review</i> , 2008, 136, 2592-2607.	1.4	38
39	Impact of the Reduced Drag Coefficient on Ocean Wave Modeling under Hurricane Conditions. <i>Monthly Weather Review</i> , 2008, 136, 1217-1223.	1.4	31
40	A Physics-Based Parameterization of Air-Sea Momentum Flux at High Wind Speeds and Its Impact on Hurricane Intensity Predictions. <i>Monthly Weather Review</i> , 2007, 135, 2869-2878.	1.4	147
41	The Operational GFDL Coupled Hurricane-Ocean Prediction System and a Summary of Its Performance. <i>Monthly Weather Review</i> , 2007, 135, 3965-3989.	1.4	218
42	Ocean Data Assimilation and Initialization Procedure for the Coupled GFDL/URI Hurricane Prediction System. <i>Journal of Atmospheric and Oceanic Technology</i> , 2005, 22, 1918-1932.	1.3	23
43	Effect of surface waves on Charnock coefficient under tropical cyclones. <i>Geophysical Research Letters</i> , 2004, 31, .	4.0	47
44	Asymmetry of an Equilibrated Gulf Stream-Type Jet over Topographic Slope. <i>Journal of Physical Oceanography</i> , 2004, 34, 1087-1102.	1.7	5
45	Effects of Large Eddies on the Structure of the Marine Boundary Layer under Strong Wind Conditions. <i>Journals of the Atmospheric Sciences</i> , 2004, 61, 3049-3064.	1.7	30
46	Effect of Surface Waves on Air-Sea Momentum Exchange. Part I: Effect of Mature and Growing Seas. <i>Journals of the Atmospheric Sciences</i> , 2004, 61, 2321-2333.	1.7	79
47	Effect of Surface Waves on Air-Sea Momentum Exchange. Part II: Behavior of Drag Coefficient under Tropical Cyclones. <i>Journals of the Atmospheric Sciences</i> , 2004, 61, 2334-2348.	1.7	138
48	Effects of surface heat flux-induced sea surface temperature changes on tropical cyclone intensity. <i>Geophysical Research Letters</i> , 2003, 30, .	4.0	28
49	Numerical Simulation of Sea Surface Directional Wave Spectra under Hurricane Wind Forcing. <i>Journal of Physical Oceanography</i> , 2003, 33, 1680-1706.	1.7	166
50	A Numerical Investigation of Land Surface Water on Landfalling Hurricanes. <i>Journals of the Atmospheric Sciences</i> , 2002, 59, 789-802.	1.7	47
51	The impact of ocean coupling on hurricanes during landfall. <i>Geophysical Research Letters</i> , 2001, 28, 2839-2842.	4.0	7
52	Impact of CO <sub>2</sub> -Induced Warming on Hurricane Intensities as Simulated in a Hurricane Model with Ocean Coupling. <i>Journal of Climate</i> , 2001, 14, 2458-2468.	3.2	97
53	Equilibration of Baroclinic Meanders and Deep Eddies in a Gulf Stream-type Jet over a Sloping Bottom. <i>Journal of Physical Oceanography</i> , 2001, 31, 2049-2065.	1.7	16
54	A Sensitivity Study of the Thermodynamic Environment on GFDL Model Hurricane Intensity: Implications for Global Warming. <i>Journal of Climate</i> , 2000, 13, 109-121.	3.2	99

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55	Real-Case Simulations of Hurricane-Ocean Interaction Using A High-Resolution Coupled Model: Effects on Hurricane Intensity. <i>Monthly Weather Review</i> , 2000, 128, 917-946.	1.4	370
56	Interaction of binary tropical cyclones in a coupled tropical cyclone-ocean model. <i>Journal of Geophysical Research</i> , 2000, 105, 22337-22354.	3.3	14
57	Hurricane-Generated Depth-Averaged Currents and Sea Surface Elevation. <i>Journal of Physical Oceanography</i> , 1995, 25, 1218-1242.	1.7	36
58	Motion and Evolution of Binary Tropical Cyclones in a Coupled Atmosphere-Ocean Numerical Model. <i>Monthly Weather Review</i> , 1995, 123, 1345-1363.	1.4	23
59	Numerical simulations of tropical cyclone-ocean interaction with a high-resolution coupled model. <i>Journal of Geophysical Research</i> , 1993, 98, 23245-23263.	3.3	264