Isaac Ginis

List of Publications by Year in descending order

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	Real-Case Simulations of Hurricaneâ€“Ocean Interaction Using A High-Resolution Coupled Model: Effects on Hurricane Intensity. Monthly Weather Review, 2000, 128, 917-946.	1.4	370
2	Numerical simulations of tropical cycloneâ€ocean interaction with a highâ€resolution coupled model. Journal of Geophysical Research, 1993, 98, 23245-23263.	3.3	264
3	The Operational GFDL Coupled Hurricaneâ€“Ocean Prediction System and a Summary of Its Performance. Monthly Weather Review, 2007, 135, 3965-3989.	1.4	218
4	Numerical Simulation of Sea Surface Directional Wave Spectra under Hurricane Wind Forcing. Journal of Physical Oceanography, 2003, 33, 1680-1706.	1.7	166
5	A Physics-Based Parameterization of Airâ€“Sea Momentum Flux at High Wind Speeds and Its Impact on Hurricane Intensity Predictions. Monthly Weather Review, 2007, 135, 2869-2878.	1.4	147
6	Effect of Surface Waves on Airâ€“Sea Momentum Exchange. Part II: Behavior of Drag Coefficient under Tropical Cyclones. Journals of the Atmospheric Sciences, 2004, 61, 2334-2348.	1.7	138
7	Aerosol Effects on Microstructure and Intensity of Tropical Cyclones. Bulletin of the American Meteorological Society, 2012, 93, 987-1001.	3.3	127
8	The Effect of Windâ€“Waveâ€“Current Interaction on Airâ€“Sea Momentum Fluxes and Ocean Response in Tropical Cyclones. Journal of Physical Oceanography, 2009, 39, 1019-1034.	1.7	121
9	Numerical Simulations and Observations of Surface Wave Fields under an Extreme Tropical Cyclone. Journal of Physical Oceanography, 2009, 39, 2097-2116.	1.7	114
10	Limitation of One-Dimensional Ocean Models for Coupled Hurricaneâ€“Ocean Model Forecasts. Monthly Weather Review, 2009, 137, 4410-4419.	1.4	108
11	A Sensitivity Study of the Thermodynamic Environment on GFDL Model Hurricane Intensity: Implications for Global Warming. Journal of Climate, 2000, 13, 109-121.	3.2	99
12	The air-sea interface and surface stress under tropical cyclones. Scientific Reports, 2014, 4, 5306.	3.3	98
13	Impact of CO2-Induced Warming on Hurricane Intensities as Simulated in a Hurricane Model with Ocean Coupling. Journal of Climate, 2001, 14, 2458-2468.	3.2	97
14	Effect of Surface Waves on Airâ€“Sea Momentum Exchange. Part I: Effect of Mature and Growing Seas. Journals of the Atmospheric Sciences, 2004, 61, 2321-2333.	1.7	79
15	Impact of a Warm Ocean Eddyâ€™s Circulation on Hurricane-Induced Sea Surface Cooling with Implications for Hurricane Intensity. Monthly Weather Review, 2012, 141, 997-1021.	1.4	57
16	Langmuir Turbulence Parameterization in Tropical Cyclone Conditions. Journal of Physical Oceanography, 2016, 46, 863-886.	1.7	57
17	Description and Analysis of the Ocean Component of NOAAâ€™s Operational Hurricane Weather Research and Forecasting Model (HWRF). Journal of Atmospheric and Oceanic Technology, 2015, 32, 144-163.	1.3	54
18	Sea state dependence of the wind stress over the ocean under hurricane winds. Journal of Geophysical Research: Oceans, 2014, 119, 30-51.	2.6	53

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19	A Numerical Investigation of Land Surface Water on Landfalling Hurricanes. Journals of the Atmospheric Sciences, 2002, 59, 789-802.	1.7	47
20	Effect of surface waves on Charnock coefficient under tropical cyclones. Geophysical Research Letters, 2004, 31, .	4.0	47
21	Improving the Ocean Initialization of Coupled Hurricaneâ€“Ocean Models Using Feature-Based Data Assimilation. Monthly Weather Review, 2008, 136, 2592-2607.	1.4	38
22	Hurricane-Generated Depth-Averaged Currents and Sea Surface Elevation. Journal of Physical Oceanography, 1995, 25, 1218-1242.	1.7	36
23	Tropical Cycloneâ€“Induced Thermocline Warming and Its Regional and Global Impacts. Journal of Climate, 2014, 27, 6978-6999.	3.2	35
24	Role of Hurricane Wind Models in Accurate Simulation of Storm Surge and Waves. Journal of Waterway, Port, Coastal and Ocean Engineering, 2019, 145, .	1.2	32
25	Impact of the Reduced Drag Coefficient on Ocean Wave Modeling under Hurricane Conditions. Monthly Weather Review, 2008, 136, 1217-1223.	1.4	31
26	Effects of Large Eddies on the Structure of the Marine Boundary Layer under Strong Wind Conditions. Journals of the Atmospheric Sciences, 2004, 61, 3049-3064.	1.7	30
27	Short- and Medium-Range Prediction of Tropical and Transitioning Cyclone Tracks within the NCEP Global Ensemble Forecasting System. Weather and Forecasting, 2010, 25, 1736-1754.	1.4	30
28	Impact of Upper-Tropospheric Temperature Anomalies and Vertical Wind Shear on Tropical Cyclone Evolution Using an Idealized Version of the Operational GFDL Hurricane Model. Journals of the Atmospheric Sciences, 2016, 73, 3803-3820.	1.7	29
29	Effects of surface heat flux-induced sea surface temperature changes on tropical cyclone intensity. Geophysical Research Letters, 2003, 30, .	4.0	28
30	Impact of Sea-State-Dependent Langmuir Turbulence on the Ocean Response to a Tropical Cyclone. Monthly Weather Review, 2016, 144, 4569-4590.	1.4	28
31	Experimental Tropical Cyclone Prediction Using the GFDL 25-km-Resolution Global Atmospheric Model. Weather and Forecasting, 2011, 26, 1008-1019.	1.4	27
32	Langmuir Turbulence under Hurricane Gustav (2008). Journal of Physical Oceanography, 2015, 45, 657-677.	1.7	27
33	On the Equilibrium-State Roll Vortices and Their Effects in the Hurricane Boundary Layer. Journals of the Atmospheric Sciences, 2016, 73, 1205-1222.	1.7	27
34	On the Generation of Roll Vortices due to the Inflection Point Instability of the Hurricane Boundary Layer Flow. Journals of the Atmospheric Sciences, 2014, 71, 4292-4307.	1.7	25
35	Momentum Flux Budget across the Airâ€“Sea Interface under Uniform and Tropical Cyclone Winds. Journal of Physical Oceanography, 2010, 40, 2221-2242.	1.7	24
36	Motion and Evolution of Binary Tropical Cyclones in a Coupled Atmosphereâ€“Ocean Numerical Model. Monthly Weather Review, 1995, 123, 1345-1363.	1.4	23

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37	Ocean Data Assimilation and Initialization Procedure for the Coupled GFDL/URI Hurricane Prediction System. Journal of Atmospheric and Oceanic Technology, 2005, 22, 1918-1932.	1.3	23
38	Hydrological modeling of storm runoff and snowmelt in Taunton River Basin by applications of HEC-HMS and PRMS models. Natural Hazards, 2018, 91, 179-199.	3.4	22
39	Effect of Boundary Layer Roll Vortices on the Development of an Axisymmetric Tropical Cyclone. Journals of the Atmospheric Sciences, 2017, 74, 2737-2759.	1.7	19
40	Ocean modeling with flexible initialization for improved coupled tropical cyclone-ocean model prediction. Environmental Modelling and Software, 2015, 67, 26-30.	4.5	18
41	Equilibration of Baroclinic Meanders and Deep Eddies in a Gulf Streamâ€“type Jet over a Sloping Bottom. Journal of Physical Oceanography, 2001, 31, 2049-2065.	1.7	16
42	Is the State of the Airâ€Sea Interface a Factor in Rapid Intensification and Rapid Decline of Tropical Cyclones?. Journal of Geophysical Research: Oceans, 2017, 122, 10174-10183.	2.6	15
43	Interaction of binary tropical cyclones in a coupled tropical cyclone-ocean model. Journal of Geophysical Research, 2000, 105, 22337-22354.	3.3	14
44	Windâ€“Wave Misalignment Effects on Langmuir Turbulence in Tropical Cyclone Conditions. Journal of Physical Oceanography, 2019, 49, 3109-3126.	1.7	14
45	Assessing the Multiple Impacts of Extreme Hurricanes in Southern New England, USA. Geosciences (Switzerland), 2019, 9, 265.	2.2	13
46	Interaction of Langmuir Turbulence and Inertial Currents in the Ocean Surface Boundary Layer under Tropical Cyclones. Journal of Physical Oceanography, 2018, 48, 1921-1940.	1.7	12
47	Characteristics of river flood and storm surge interactions in a tidal river in Rhode Island, USA. Procedia IUTAM, 2017, 25, 60-64.	1.2	10
48	Real-Time Chronological Hazard Impact Modeling. Journal of Marine Science and Engineering, 2018, 6, 134.	2.6	9
49	Sensitivity of Offshore Tropical Cyclone Wave Simulations to Spatial Resolution in Wave Models. Journal of Marine Science and Engineering, 2018, 6, 116.	2.6	9
50	On the Characteristics of Linear-Phase Roll Vortices under a Moving Hurricane Boundary Layer. Journals of the Atmospheric Sciences, 2018, 75, 2589-2598.	1.7	9
51	Hurricane Model Development at GFDL: A Collaborative Success Story from a Historical Perspective. Bulletin of the American Meteorological Society, 2019, 100, 1725-1736.	3.3	9
52	The impact of ocean coupling on hurricanes during landfall. Geophysical Research Letters, 2001, 28, 2839-2842.	4.0	7
53	Impact of Shoaling Ocean Surface Waves on Wind Stress and Drag Coefficient in Coastal Waters: 1. Uniform Wind. Journal of Geophysical Research: Oceans, 2020, 125, e2020JC016222.	2.6	6
54	Assessment of hurricane generated loads on oï¬€shore wind farms; a closer look at most extreme historical hurricanes in New England. Renewable Energy, 2021, 175, 593-609.	8.9	6

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55	Asymmetry of an Equilibrated Gulf Streamâ€“Type Jet over Topographic Slope. Journal of Physical Oceanography, 2004, 34, 1087-1102.	1.7	5
56	Impact of Shoaling Ocean Surface Waves on Wind Stress and Drag Coefficient in Coastal Waters: 2. Tropical Cyclones. Journal of Geophysical Research: Oceans, 2020, 125, e2020JC016223.	2.6	5
57	Flood risk in past and future: A case study for the Pawtuxet River's recordâ€breaking March 2010 flood event. Journal of Flood Risk Management, 2020, 13, e12655.	3.3	4
58	Potential effect of bio-surfactants on sea spray generation in tropical cyclone conditions. Scientific Reports, 2020, 10, 19057.	3.3	4
59	Developing Consequence Thresholds for Storm Models Through Participatory Processes: Case Study of Westerly Rhode Island. Frontiers in Earth Science, 2019, 7, .	1.8	3