

Corene J Matyas

List of Publications by Year in descending order

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Version: 2024-02-01

58
papers

1,275
citations

361296

20
h-index

395590

33
g-index

58
all docs

58
docs citations

58
times ranked

1238
citing authors

#	ARTICLE	IF	CITATIONS
1	Simulating the Effects of Land Surface Characteristics on Planetary Boundary Layer Parameters for a Modeled Landfalling Tropical Cyclone. <i>Atmosphere</i> , 2022, 13, 138.	1.0	4
2	Illustration of an objectâ€based approach to identify structural differences in tropical cyclone wind fields. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2022, 148, 2587-2606.	1.0	2
3	Tropical cyclones in the northern Mozambique Channel: composite intra-seasonal forcing and 2019 event. <i>Meteorology and Atmospheric Physics</i> , 2022, 134, .	0.9	0
4	Geospatial Analysis of Rain Fields and Associated Environmental Conditions for Cyclones Eline and Hudah. <i>Geomatics</i> , 2021, 1, 92-113.	1.0	0
5	Regionalization of precipitation associated with tropical cyclones using spatial metrics and satellite precipitation. <i>GIScience and Remote Sensing</i> , 2021, 58, 542-561.	2.4	10
6	Two-Year College Students Report Multiple Benefits From Participation in an Integrated Geoscience Research, Coursework, and Outreach Internship Program. <i>Community College Review</i> , 2021, 49, 457-482.	0.8	8
7	High Efficiency Weather Radar Mosaic Image Generation Framework. , 2021, , .		0
8	Automated terrain generation for precise atmospheric boundary layer simulation in the wind tunnel. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2020, 207, 104276.	1.7	20
9	Rainfall Symmetry Related to Moisture, Storm Intensity, and Vertical Wind Shear for Tropical Cyclones Landfalling over the U.S. Gulf Coastline. <i>Atmosphere</i> , 2020, 11, 895.	1.0	6
10	Variations in Rainfall Timing and Changes in the Leading Edge of Hurricane Katrina (2005) During Gulf Coast Landfalls. <i>International Journal of Environmental Sciences & Natural Resources</i> , 2020, 26, .	0.3	0
11	Environmental Factors Variably Impact Tea Secondary Metabolites in the Context of Climate Change. <i>Frontiers in Plant Science</i> , 2019, 10, 939.	1.7	102
12	Combining Water Fraction and DEM-Based Methods to Create a Coastal Flood Map: A Case Study of Hurricane Harvey. <i>ISPRS International Journal of Geo-Information</i> , 2019, 8, 231.	1.4	4
13	Measuring Radial and Tangential Changes in Tropical Cyclone Rain Fields Using Metrics of Dispersion and Closure. <i>Advances in Meteorology</i> , 2019, 2019, 1-14.	0.6	7
14	Plant-Climate Interaction Effects: Changes in the Relative Distribution and Concentration of the Volatile Tea Leaf Metabolome in 2014â€2016. <i>Frontiers in Plant Science</i> , 2019, 10, 1518.	1.7	24
15	Spatial distribution of tropical cyclone rainfall and its contribution to the climatology of Puerto Rico. <i>Physical Geography</i> , 2018, 39, 1-20.	0.6	19
16	Arc4nix: A cross-platform geospatial analytical library for cluster and cloud computing. <i>Computers and Geosciences</i> , 2018, 111, 159-166.	2.0	5
17	Stress Physiology of Tea in the Face of Climate Change. , 2018, , .		12
18	Global Climate Change, Ecological Stress, and Tea Production. , 2018, , 1-23.		12

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19	Spatial Characteristics of Rain Fields Associated with Tropical Cyclones Landfalling over the Western Gulf of Mexico and Caribbean Sea. <i>Journal of Applied Meteorology and Climatology</i> , 2018, 57, 1711-1727.	0.6	9
20	Conditions associated with rain field size for tropical cyclones landfalling over the Eastern United States. <i>Atmospheric Research</i> , 2018, 214, 375-385.	1.8	26
21	Using an Object-Based Approach to Quantify the Spatial Structure of Reflectivity Regions in Hurricane Isabel (2003). Part I: Comparisons between Radar Observations and Model Simulations. <i>Monthly Weather Review</i> , 2018, 146, 1319-1340.	0.5	18
22	A Nowcasting Model for Tropical Cyclone Precipitation Regions Based on the TREC Motion Vector Retrieval with a Semi-Lagrangian Scheme for Doppler Weather Radar. <i>Atmosphere</i> , 2018, 9, 200.	1.0	11
23	Spatial characteristics of stormâ€™total rainfall swaths associated with tropical cyclones over the Eastern United States. <i>International Journal of Climatology</i> , 2017, 37, 557-569.	1.5	26
24	Extreme floods and their relationship with tropical cyclones in Puerto Rico. <i>Hydrological Sciences Journal</i> , 2017, 62, 2103-2119.	1.2	15
25	Comparing the Spatial Patterns of Rainfall and Atmospheric Moisture among Tropical Cyclones Having a Track Similar to Hurricane Irene (2011). <i>Atmosphere</i> , 2017, 8, 165.	1.0	15
26	Fast Playback Framework for Analysis of Ground-Based Doppler Radar Observations Using MapReduce Technology. <i>Journal of Atmospheric and Oceanic Technology</i> , 2016, 33, 621-634.	0.5	5
27	Tropical cyclone rainfall over Puerto Rico and its relations to environmental and stormâ€™specific factors. <i>International Journal of Climatology</i> , 2016, 36, 2223-2237.	1.5	32
28	A Shape Metric Methodology for Studying the Evolving Geometries of Synoptic-Scale Precipitation Patterns in Tropical Cyclones. <i>Annals of the American Association of Geographers</i> , 2016, 106, 1217-1235.	1.5	32
29	Comparing the spatial extent of Atlantic basin tropical cyclone wind and rain fields prior to land interaction. <i>Physical Geography</i> , 2016, 37, 5-25.	0.6	13
30	Predicting information seeking regarding hurricane evacuation in the destination. <i>Tourism Management</i> , 2016, 52, 264-275.	5.8	54
31	Tropical cyclones in the North American Regional Reanalysis: The impact of satelliteâ€™derived precipitation over ocean. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 8724-8742.	1.2	11
32	Tropical cyclone formation and motion in the Mozambique Channel. <i>International Journal of Climatology</i> , 2015, 35, 375-390.	1.5	37
33	Tropical cyclones in the North American Regional Reanalysis: An assessment of spatial biases in location, intensity, and structure. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 1651-1669.	1.2	29
34	Regional inequality and polarization in the context of concurrent extreme weather and economic shocks. <i>Applied Geography</i> , 2015, 61, 105-116.	1.7	14
35	Relating Rainfall Patterns to Agricultural Income: Implications for Rural Development in Mozambique. <i>Weather, Climate, and Society</i> , 2014, 6, 218-237.	0.5	13
36	Understanding high resolution spaceâ€™time variability of rainfall in southwest Georgia, United States. <i>International Journal of Climatology</i> , 2014, 34, 3188-3203.	1.5	15

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37	Conditions associated with large rain-field areas for tropical cyclones landfalling over Florida. <i>Physical Geography</i> , 2014, 35, 93-106.	0.6	25
38	An empirical evaluation of the determinants of tourist's hurricane evacuation decision making. <i>Journal of Destination Marketing & Management</i> , 2014, 2, 253-265.	3.4	37
39	Effects of Extreme Climate Events on Tea (<i>Camellia sinensis</i>) Functional Quality Validate Indigenous Farmer Knowledge and Sensory Preferences in Tropical China. <i>PLoS ONE</i> , 2014, 9, e109126.	1.1	134
40	Cognitive and affective responses of Florida tourists after exposure to hurricane warning messages. <i>Natural Hazards</i> , 2013, 66, 97-116.	1.6	39
41	Extreme weather and economic well-being in rural Mozambique. <i>Natural Hazards</i> , 2013, 66, 31-49.	1.6	27
42	Processes Influencing Rain-Field Growth and Decay after Tropical Cyclone Landfall in the United States. <i>Journal of Applied Meteorology and Climatology</i> , 2013, 52, 1085-1096.	0.6	20
43	A Geospatial Analysis of Convective Rainfall Regions within Tropical Cyclones after Landfall. , 2013, , 1069-1088.		0
44	The influences of ENSO and the subtropical Indian Ocean Dipole on tropical cyclone trajectories in the southwestern Indian Ocean. <i>International Journal of Climatology</i> , 2012, 32, 41-56.	1.5	51
45	Modeling hurricane-caused urban forest debris in Houston, Texas. <i>Landscape and Urban Planning</i> , 2011, 101, 286-297.	3.4	26
46	Risk perception and evacuation decisions of Florida tourists under hurricane threats: a stated preference analysis. <i>Natural Hazards</i> , 2011, 59, 871-890.	1.6	94
47	Associations between the size of hurricane rain fields at landfall and their surrounding environments. <i>Meteorology and Atmospheric Physics</i> , 2010, 106, 135-148.	0.9	76
48	Surface radar-derived convective rainfall associations with Midwest US land surface conditions in summer seasons 1999 and 2000. <i>Theoretical and Applied Climatology</i> , 2010, 99, 315-330.	1.3	15
49	Assessing links between upper atmospheric vorticity patterns and directional changes in hurricane tracks. <i>Theoretical and Applied Climatology</i> , 2010, 102, 379-392.	1.3	1
50	Use of Ground-based Radar for Climate-scale Studies of Weather and Rainfall. <i>Geography Compass</i> , 2010, 4, 1218-1237.	1.5	17
51	Locating Convection in Landfalling Tropical Cyclones: A Gis-Based Analysis of Radar Reflectivities and Comparison to Lightning-Based Observations. <i>Physical Geography</i> , 2010, 31, 385-406.	0.6	4
52	A Geospatial Analysis of Convective Rainfall Regions Within Tropical Cyclones After Landfall. <i>International Journal of Applied Geospatial Research</i> , 2010, 1, 71-91.	0.2	17
53	Comparing the Rainfall Patterns Produced by Hurricanes Frances (2004) and Jeanne (2004) over Florida. <i>Southeastern Geographer</i> , 2009, 49, 132-156.	0.1	17
54	A Spatial Analysis of Radar Reflectivity Regions within Hurricane Charley (2004). <i>Journal of Applied Meteorology and Climatology</i> , 2009, 48, 130-142.	0.6	18

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55	Shape measures of rain shields as indicators of changing environmental conditions in a landfalling tropical storm. <i>Meteorological Applications</i> , 2008, 15, 259-271.	0.9	13
56	Quantifying the Shapes of U.S. Landfalling Tropical Cyclone Rain Shields*. <i>Professional Geographer</i> , 2007, 59, 158-172.	1.0	34
57	lâ€™ll Follow the Sun â€¦ to Tampa. <i>AAG Newsletter</i> , 0, , .	0.5	0
58	Despite challenges, 2-year college students benefit from faculty-mentored geoscience research at a 4-year university during an extracurricular program. <i>Journal of Geoscience Education</i> , 0, , 1-14.	0.8	0