

Corene J Matyas

List of Publications by Year in descending order

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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	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
2	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
3	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
4	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
5	Predicting information seeking regarding hurricane evacuation in the destination. <i>Tourism Management</i> , 2016, 52, 264-275.	5.8	54
6	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
7	Cognitive and affective responses of Florida tourists after exposure to hurricane warning messages. <i>Natural Hazards</i> , 2013, 66, 97-116.	1.6	39
8	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
9	Tropical cyclone formation and motion in the Mozambique Channel. <i>International Journal of Climatology</i> , 2015, 35, 375-390.	1.5	37
10	Quantifying the Shapes of U.S. Landfalling Tropical Cyclone Rain Shields*. <i>Professional Geographer</i> , 2007, 59, 158-172.	1.0	34
11	Tropical cyclone rainfall over Puerto Rico and its relations to environmental and storm-specific factors. <i>International Journal of Climatology</i> , 2016, 36, 2223-2237.	1.5	32
12	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
13	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
14	Extreme weather and economic well-being in rural Mozambique. <i>Natural Hazards</i> , 2013, 66, 31-49.	1.6	27
15	Modeling hurricane-caused urban forest debris in Houston, Texas. <i>Landscape and Urban Planning</i> , 2011, 101, 286-297.	3.4	26
16	Spatial characteristics of storm-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
17	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
18	Conditions associated with large rain-field areas for tropical cyclones landfalling over Florida. <i>Physical Geography</i> , 2014, 35, 93-106.	0.6	25

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19	Plant-Climate Interaction Effects: Changes in the Relative Distribution and Concentration of the Volatile Tea Leaf Metabolome in 2014–2016. <i>Frontiers in Plant Science</i> , 2019, 10, 1518.	1.7	24
20	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
21	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
22	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
23	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
24	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
25	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
26	Use of Ground-Based Radar for Climate-Scale Studies of Weather and Rainfall. <i>Geography Compass</i> , 2010, 4, 1218-1237.	1.5	17
27	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
28	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
29	Understanding high resolution space-time variability of rainfall in southwest Georgia, United States. <i>International Journal of Climatology</i> , 2014, 34, 3188-3203.	1.5	15
30	Extreme floods and their relationship with tropical cyclones in Puerto Rico. <i>Hydrological Sciences Journal</i> , 2017, 62, 2103-2119.	1.2	15
31	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
32	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
33	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
34	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
35	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
36	Stress Physiology of Tea in the Face of Climate Change. , 2018, , .		12

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37	Global Climate Change, Ecological Stress, and Tea Production. , 2018, , 1-23.		12
38	Tropical cyclones in the North American Regional Reanalysis: The impact of satellite-derived precipitation over ocean. Journal of Geophysical Research D: Atmospheres, 2015, 120, 8724-8742.	1.2	11
39	A Nowcasting Model for Tropical Cyclone Precipitation Regions Based on the TREC Motion Vector Retrieval with a Semi-Lagrangian Scheme for Doppler Weather Radar. Atmosphere, 2018, 9, 200.	1.0	11
40	Regionalization of precipitation associated with tropical cyclones using spatial metrics and satellite precipitation. GIScience and Remote Sensing, 2021, 58, 542-561.	2.4	10
41	Spatial Characteristics of Rain Fields Associated with Tropical Cyclones Landfalling over the Western Gulf of Mexico and Caribbean Sea. Journal of Applied Meteorology and Climatology, 2018, 57, 1711-1727.	0.6	9
42	Two-Year College Students Report Multiple Benefits From Participation in an Integrated Geoscience Research, Coursework, and Outreach Internship Program. Community College Review, 2021, 49, 457-482.	0.8	8
43	Measuring Radial and Tangential Changes in Tropical Cyclone Rain Fields Using Metrics of Dispersion and Closure. Advances in Meteorology, 2019, 2019, 1-14.	0.6	7
44	Rainfall Symmetry Related to Moisture, Storm Intensity, and Vertical Wind Shear for Tropical Cyclones Landfalling over the U.S. Gulf Coastline. Atmosphere, 2020, 11, 895.	1.0	6
45	Fast Playback Framework for Analysis of Ground-Based Doppler Radar Observations Using MapReduce Technology. Journal of Atmospheric and Oceanic Technology, 2016, 33, 621-634.	0.5	5
46	Arc4nix: A cross-platform geospatial analytical library for cluster and cloud computing. Computers and Geosciences, 2018, 111, 159-166.	2.0	5
47	Locating Convection in Landfalling Tropical Cyclones: A Gis-Based Analysis of Radar Reflectivities and Comparison to Lightning-Based Observations. Physical Geography, 2010, 31, 385-406.	0.6	4
48	Combining Water Fraction and DEM-Based Methods to Create a Coastal Flood Map: A Case Study of Hurricane Harvey. ISPRS International Journal of Geo-Information, 2019, 8, 231.	1.4	4
49	Simulating the Effects of Land Surface Characteristics on Planetary Boundary Layer Parameters for a Modeled Landfalling Tropical Cyclone. Atmosphere, 2022, 13, 138.	1.0	4
50	Illustration of an object-based approach to identify structural differences in tropical cyclone wind fields. Quarterly Journal of the Royal Meteorological Society, 2022, 148, 2587-2606.	1.0	2
51	Assessing links between upper atmospheric vorticity patterns and directional changes in hurricane tracks. Theoretical and Applied Climatology, 2010, 102, 379-392.	1.3	1
52	Geospatial Analysis of Rain Fields and Associated Environmental Conditions for Cyclones Eline and Hudah. Geomatics, 2021, 1, 92-113.	1.0	0
53	High Efficiency Weather Radar Mosaic Image Generation Framework. , 2021, , .		0
54	A Geospatial Analysis of Convective Rainfall Regions within Tropical Cyclones after Landfall. , 2013, , 1069-1088.		0

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55	Follow the Sun to Tampa. AAG Newsletter, 0, , .	0.5	0
56	Variations in Rainfall Timing and Changes in the Leading Edge of Hurricane Katrina (2005) During Gulf Coast Landfalls. International Journal of Environmental Sciences & Natural Resources, 2020, 26, .	0.3	0
57	Despite challenges, 2-year college students benefit from faculty-mentored geoscience research at a 4-year university during an extracurricular program. Journal of Geoscience Education, 0, , 1-14.	0.8	0
58	Tropical cyclones in the northern Mozambique Channel: composite intra-seasonal forcing and 2019 event. Meteorology and Atmospheric Physics, 2022, 134, .	0.9	0