

RÃ¼tger Rollenbeck

List of Publications by Year in descending order

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Version: 2024-02-01

21
papers

504
citations

759233

12
h-index

713466

21
g-index

21
all docs

21
docs citations

21
times ranked

519
citing authors

#	ARTICLE	IF	CITATIONS
1	Rainfall distribution in the Andes of southern Ecuador derived from blending weather radar data and meteorological field observations. <i>Atmospheric Research</i> , 2011, 99, 277-289.	4.1	99
2	Diurnal patterns of rainfall in a tropical Andean valley of southern Ecuador as seen by a vertically pointing K-band Doppler radar. <i>International Journal of Climatology</i> , 2006, 26, 829-846.	3.5	50
3	Growth of Tropical Bracken (<i>Pteridium arachnoideum</i>): Response to Weather Variations and Burning. <i>Invasive Plant Science and Management</i> , 2010, 3, 402-411.	1.1	49
4	The nitrogen cycle of tropical montane forest in Ecuador turns inorganic under environmental change. <i>Global Biogeochemical Cycles</i> , 2013, 27, 1194-1204.	4.9	43
5	Experimental calibration of a cost-effective X-band weather radar for climate ecological studies in southern Ecuador. <i>Atmospheric Research</i> , 2006, 79, 296-316.	4.1	34
6	Spatial and temporal dynamics of atmospheric water inputs in tropical mountain forests of South Ecuador. <i>Hydrological Processes</i> , 2011, 25, 344-352.	2.6	34
7	Catchment precipitation processes in the San Francisco valley in southern Ecuador: combined approach using high-resolution radar images and in situ observations. <i>Meteorology and Atmospheric Physics</i> , 2014, 126, 13-29.	2.0	32
8	Seasonality and diurnal pattern of very low clouds in a deeply incised valley of the eastern tropical Andes (South Ecuador) as observed by a cost-effective WebCam system. <i>Meteorological Applications</i> , 2008, 15, 281-291.	2.1	27
9	RadarNet-Sur First Weather Radar Network in Tropical High Mountains. <i>Bulletin of the American Meteorological Society</i> , 2017, 98, 1235-1254.	3.3	26
10	Analysis of Rain Types and Their Relationships at Different Locations in the High Andes of Southern Ecuador. <i>Journal of Applied Meteorology and Climatology</i> , 2017, 56, 3065-3080.	1.5	26
11	Temporal and spatial analysis of precipitation patterns in an Andean region of southern Ecuador using LAWR weather radar. <i>Meteorology and Atmospheric Physics</i> , 2018, 130, 473-484.	2.0	16
12	Optimization of X-Band Radar Rainfall Retrieval in the Southern Andes of Ecuador Using a Random Forest Model. <i>Remote Sensing</i> , 2019, 11, 1632.	4.0	12
13	Assessment of Native Radar Reflectivity and Radar Rainfall Estimates for Discharge Forecasting in Mountain Catchments with a Random Forest Model. <i>Remote Sensing</i> , 2020, 12, 1986.	4.0	12
14	Climatic Cycles and Gradients of the El Niño Core Region in North Peru. <i>Advances in Meteorology</i> , 2015, 2015, 1-10.	1.6	11
15	Evapotranspiration estimates for two tropical mountain forest using high spatial resolution satellite data. <i>International Journal of Remote Sensing</i> , 2021, 42, 2940-2962.	2.9	7
16	A New Class of Quality Controls for Micrometeorological Data in Complex Tropical Environments. <i>Journal of Atmospheric and Oceanic Technology</i> , 2016, 33, 169-183.	1.3	6
17	Determination of climatic conditions related to precipitation anomalies in the Tropical Andes by means of the random forest algorithm and novel climate indices. <i>International Journal of Climatology</i> , 2022, 42, 5055-5072.	3.5	6
18	Calibration of X-Band Radar for Extreme Events in a Spatially Complex Precipitation Region in North Peru: Machine Learning vs. Empirical Approach. <i>Atmosphere</i> , 2021, 12, 1561.	2.3	5

#	ARTICLE	IF	CITATIONS
19	The Coastal El Niño Event of 2017 in Ecuador and Peru: A Weather Radar Analysis. <i>Remote Sensing</i> , 2022, 14, 824.	4.0	5
20	Monitoring and predictive mapping of floristic biodiversity along a climatic gradient in ENSO's terrestrial core region, NW Peru. <i>Ecography</i> , 2020, 43, 1878-1890.	4.5	3
21	Assessment of Satellite-Based Rainfall Products Using a X-Band Rain Radar Network in the Complex Terrain of the Ecuadorian Andes. <i>Atmosphere</i> , 2021, 12, 1678.	2.3	1