RÃ¼tger Rollenbeck

List of Publications by Year
in descending order

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	Determination of climatic conditions related to precipitation anomalies in the Tropical Andes by means of the random forest algorithm and novel climate indices. International Journal of Climatology, 2022, 42, 5055-5072.	3.5	6
2	The Coastal El Niño Event of 2017 in Ecuador and Peru: A Weather Radar Analysis. Remote Sensing, 2022, 14, 824.	4.0	5
3	Evapotranspiration estimates for two tropical mountain forest using high spatial resolution satellite data. International Journal of Remote Sensing, 2021, 42, 2940-2962.	2.9	7
4	Calibration of X-Band Radar for Extreme Events in a Spatially Complex Precipitation Region in North Peru: Machine Learning vs. Empirical Approach. Atmosphere, 2021, 12, 1561.	2.3	5
5	Assessment of Satellite-Based Rainfall Products Using a X-Band Rain Radar Network in the Complex Terrain of the Ecuadorian Andes. Atmosphere, 2021, 12, 1678.	2.3	1
6	Monitoring and predictive mapping of floristic biodiversity along a climatic gradient in ENSO's terrestrial core region, NW Peru. Ecography, 2020, 43, 1878-1890.	4.5	3
7	Assessment of Native Radar Reflectivity and Radar Rainfall Estimates for Discharge Forecasting in Mountain Catchments with a Random Forest Model. Remote Sensing, 2020, 12, 1986.	4.0	12
8	Optimization of X-Band Radar Rainfall Retrieval in the Southern Andes of Ecuador Using a Random Forest Model. Remote Sensing, 2019, 11, 1632.	4.0	12
9	Temporal and spatial analysis of precipitation patterns in an Andean region of southern Ecuador using LAWR weather radar. Meteorology and Atmospheric Physics, 2018, 130, 473-484.	2.0	16
10	RadarNet-Sur First Weather Radar Network in Tropical High Mountains. Bulletin of the American Meteorological Society, 2017, 98, 1235-1254.	3.3	26
11	Analysis of Rain Types and Their Z–R Relationships at Different Locations in the High Andes of Southern Ecuador. Journal of Applied Meteorology and Climatology, 2017, 56, 3065-3080.	1.5	26
12	A New Class of Quality Controls for Micrometeorological Data in Complex Tropical Environments. Journal of Atmospheric and Oceanic Technology, 2016, 33, 169-183.	1.3	6
13	Climatic Cycles and Gradients of the El Niño Core Region in North Peru. Advances in Meteorology, 2015, 2015, 1-10.	1.6	11
14	Catchment precipitation processes in the San Francisco valley in southern Ecuador: combined approach using high-resolution radar images and in situ observations. Meteorology and Atmospheric Physics, 2014, 126, 13-29.	2.0	32
15	The nitrogen cycle of tropical montane forest in Ecuador turns inorganic under environmental change. Global Biogeochemical Cycles, 2013, 27, 1194-1204.	4.9	43
16	Rainfall distribution in the Andes of southern Ecuador derived from blending weather radar data and meteorological field observations. Atmospheric Research, 2011, 99, 277-289.	4.1	99
17	Spatial and temporal dynamics of atmospheric water inputs in tropical mountain forests of South Ecuador. Hydrological Processes, 2011, 25, 344-352.	2.6	34
18	Growth of Tropical Bracken (*Pteridium arachnoideum*): Response to Weather Variations and Burning. Invasive Plant Science and Management, 2010, 3, 402-411.	1.1	49

#	Article	IF	Citations
19	Seasonality and diurnal pattern of very low clouds in a deeply incised valley of the eastern tropical Andes (South Ecuador) as observed by a costâ€effective WebCam system. Meteorological Applications, 2008, 15, 281-291.	2.1	27
20	Experimental calibration of a cost-effective X-band weather radar for climate ecological studies in southern Ecuador. Atmospheric Research, 2006, 79, 296-316.	4.1	34
21	Diurnal patterns of rainfall in a tropical Andean valley of southern Ecuador as seen by a vertically pointing K-band Doppler radar. International Journal of Climatology, 2006, 26, 829-846.	3.5	50