

Guy Delrieu

List of Publications by Year in descending order

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59
papers

3,117
citations

159358

30
h-index

161609

54
g-index

65
all docs

65
docs citations

65
times ranked

2720
citing authors

#	ARTICLE	IF	CITATIONS
1	Sensitivity analysis of attenuation in convective rainfall at X-band frequency using the mountain reference technique. <i>Atmospheric Measurement Techniques</i> , 2022, 15, 3297-3314.	1.2	0
2	Preliminary investigation of the relationship between differential phase shift and path-integrated attenuation at the X band frequency in an Alpine environment. <i>Atmospheric Measurement Techniques</i> , 2020, 13, 3731-3749.	1.2	3
3	Radar Remote Sensing of Precipitation in High Mountains: Detection and Characterization of Melting Layer in the Grenoble Valley, French Alps. <i>Atmosphere</i> , 2019, 10, 784.	1.0	10
4	Impact of the Altitudinal Gradients of Precipitation on the Radar QPE Bias in the French Alps. <i>Atmosphere</i> , 2019, 10, 306.	1.0	5
5	Evaluation of GPM-era Global Satellite Precipitation Products over Multiple Complex Terrain Regions. <i>Remote Sensing</i> , 2019, 11, 2936.	1.8	74
6	Analyse hydrologique de la crue-Ã©clair catastrophique du 15â€‰%juin 2010 dans la rÃ©gion de Draguignan (VAR, France). <i>Houille Blanche</i> , 2019, 105, 140-148.	0.3	2
7	Distributed hydrological modeling of floods in the CÃ©vennes-Vivarais region, France: Impact of uncertainties related to precipitation estimation and model parameterization. <i>Journal of Hydrology</i> , 2018, 565, 276-288.	2.3	5
8	Integrated high-resolution dataset of high-intensity European and Mediterranean flash floods. <i>Earth System Science Data</i> , 2018, 10, 1783-1794.	3.7	62
9	Drop Size Distribution Climatology in CÃ©vennes-Vivarais Region, France. <i>Atmosphere</i> , 2017, 8, 233.	1.0	18
10	A high spaceâ€‰time resolution dataset linking meteorological forcing and hydro-sedimentary response in a mesoscale Mediterranean catchment (Auzon) of the ArdÃ©che region, France. <i>Earth System Science Data</i> , 2017, 9, 221-249.	3.7	20
11	Modeling flash floods in southern France for road management purposes. <i>Journal of Hydrology</i> , 2016, 541, 190-205.	2.3	22
12	Advances in flash floods understanding and modelling derived from the FloodScale project in South-East France. <i>E3S Web of Conferences</i> , 2016, 7, 04005.	0.2	5
13	A high-resolution rainfall re-analysis based on radarâ€‰raingauge merging in the CÃ©vennes-Vivarais region, France. <i>Journal of Hydrology</i> , 2016, 541, 14-23.	2.3	31
14	Multiregional Satellite Precipitation Products Evaluation over Complex Terrain. <i>Journal of Hydrometeorology</i> , 2016, 17, 1817-1836.	0.7	123
15	Multifrequency Radar Observations Collected in Southern France during HyMeX-SOP1. <i>Bulletin of the American Meteorological Society</i> , 2015, 96, 267-282.	1.7	22
16	Multi-scale hydrometeorological observation and modelling for flash flood understanding. <i>Hydrology and Earth System Sciences</i> , 2014, 18, 3733-3761.	1.9	61
17	HyMeX: A 10-Year Multidisciplinary Program on the Mediterranean Water Cycle. <i>Bulletin of the American Meteorological Society</i> , 2014, 95, 1063-1082.	1.7	288
18	Unified Formulation of Single- and Multimoment Normalizations of the Raindrop Size Distribution Based on the Gamma Probability Density Function. <i>Journal of Applied Meteorology and Climatology</i> , 2014, 53, 166-179.	0.6	13

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19	Social and Hydrological Responses to Extreme Precipitations: An Interdisciplinary Strategy for Postflood Investigation. <i>Weather, Climate, and Society</i> , 2014, 6, 135-153.	0.5	66
20	Dependence of radar quantitative precipitation estimation error on the rain intensity in the C�vannes region, France. <i>Hydrological Sciences Journal</i> , 2014, 59, 1308-1319.	1.2	19
21	Geostatistical radar�raingauge merging: A novel method for the quantification of rain estimation accuracy. <i>Advances in Water Resources</i> , 2014, 71, 110-124.	1.7	77
22	A Physically Based Identification of Vertical Profiles of Reflectivity from Volume Scan Radar Data. <i>Journal of Applied Meteorology and Climatology</i> , 2013, 52, 1645-1663.	0.6	33
23	Assessment of gridded observations used for climate model validation in the Mediterranean region: the HyMeX and MED-CORDEX framework. <i>Environmental Research Letters</i> , 2012, 7, 024017.	2.2	26
24	Estimation of rain kinetic energy from radar reflectivity and/or rain rate based on a scaling formulation of the raindrop size distribution. <i>Water Resources Research</i> , 2012, 48, .	1.7	6
25	Analysis of flash flood regimes in the North-Western and South-Eastern Mediterranean regions. <i>Natural Hazards and Earth System Sciences</i> , 2012, 12, 1255-1265.	1.5	96
26	The C�vannes�Vivarais Mediterranean Hydrometeorological Observatory database. <i>Water Resources Research</i> , 2011, 47, .	1.7	45
27	Scaling of raindrop size distributions and classification of radar reflectivity�rain rate relations in intense Mediterranean precipitation. <i>Journal of Hydrology</i> , 2011, 402, 179-192.	2.3	33
28	Toward an error model for radar quantitative precipitation estimation in the C�vannes�Vivarais region, France. <i>Journal of Hydrology</i> , 2010, 394, 28-41.	2.3	63
29	Radar rainfall estimation in the context of post-event analysis of flash-flood events. <i>Journal of Hydrology</i> , 2010, 394, 17-27.	2.3	46
30	Hydrological analysis of a flash flood across a climatic and geologic gradient: The September 18, 2007 event in Western Slovenia. <i>Journal of Hydrology</i> , 2010, 394, 182-197.	2.3	57
31	Identification of Vertical Profiles of Reflectivity for Correction of Volumetric Radar Data Using Rainfall Classification. <i>Journal of Applied Meteorology and Climatology</i> , 2010, 49, 2167-2180.	0.6	30
32	Radar and multisensor rainfall estimation for hydrologic applications. <i>Geophysical Monograph Series</i> , 2010, , 79-104.	0.1	27
33	Boll�ne-2002 Experiment: Radar Quantitative Precipitation Estimation in the C�vannes�Vivarais Region, France. <i>Journal of Applied Meteorology and Climatology</i> , 2009, 48, 1422-1447.	0.6	56
34	Comprehensive post�event survey of a flash flood in Western Slovenia: observation strategy and lessons learned. <i>Hydrological Processes</i> , 2009, 23, 3761-3770.	1.1	47
35	Variability of the spatial structure of intense Mediterranean precipitation. <i>Advances in Water Resources</i> , 2009, 32, 1031-1042.	1.7	28
36	Distributed hydrologic and hydraulic modelling with radar rainfall input: Reconstruction of the 8�9 September 2002 catastrophic flood event in the Gard region, France. <i>Advances in Water Resources</i> , 2009, 32, 1077-1089.	1.7	61

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37	Estimation quantitative des précipitations par radar météorologique: influence de la structure verticale des pluies, modélisation des erreurs radar-pluviométriques. Houille Blanche, 2009, 95, 150-156.	0.3	4
38	Radar rainfall estimation for the post-event analysis of a Slovenian flash-flood case: application of the Mountain Reference Technique at C-band frequency. Hydrology and Earth System Sciences, 2009, 13, 1349-1360.	1.9	26
39	Variability of rain drop size distribution and its effect on the Z-R relationship: A case study for intense Mediterranean rainfall. Atmospheric Research, 2008, 87, 52-65.	1.8	78
40	A Radar Simulator for High-Resolution Nonhydrostatic Models. Journal of Atmospheric and Oceanic Technology, 2006, 23, 1049-1067.	0.5	44
41	Vers un modèle d'erreur pour la mesure des pluies par radar météorologique en région Cévennes-Vivarais. Houille Blanche, 2006, 92, 27-32.	0.3	1
42	Estimating the Vertical Structure of Intense Mediterranean Precipitation Using Two X-Band Weather Radar Systems. Journal of Atmospheric and Oceanic Technology, 2005, 22, 1656-1675.	0.5	16
43	The Catastrophic Flash-Flood Event of 8-9 September 2002 in the Gard Region, France: A First Case Study for the Cévennes-Vivarais Mediterranean Hydrometeorological Observatory. Journal of Hydrometeorology, 2005, 6, 34-52.	0.7	333
44	Application of the hydrologic visibility concept to estimate rainfall measurement quality of two planned weather radars. Atmospheric Research, 2005, 77, 232-246.	1.8	4
45	Temporal and spatial resolution of rainfall measurements required for urban hydrology. Journal of Hydrology, 2004, 299, 166-179.	2.3	347
46	Influence of the Vertical Profile of Reflectivity on Radar-Estimated Rain Rates at Short Time Steps. Journal of Hydrometeorology, 2004, 5, 296-310.	0.7	22
47	L'événement pluvieux des 8-9 septembre 2002 dans le Gard: estimation des précipitations par radars et pluviométriques. Houille Blanche, 2004, 90, 93-98.	0.3	3
48	L'Observatoire Hydro-météorologique Méditerranéen en Cévennes-Vivarais. Houille Blanche, 2003, 89, 83-88.	0.3	6
49	Hydrologic Visibility of Weather Radar Systems Operating in Mountainous Regions: Case Study for the Ardèche Catchment (France). Journal of Hydrometeorology, 2002, 3, 539-555.	0.7	114
50	La mesure de pluie par radar : " visibilité hydrologique " en région montagneuse. Houille Blanche, 2002, 88, 42-45.	0.3	2
51	Quantification of Path-Integrated Attenuation for X- and C-Band Weather Radar Systems Operating in Mediterranean Heavy Rainfall. Journal of Applied Meteorology and Climatology, 2000, 39, 840-850.	1.7	44
52	Mountain reference technique: Use of mountain returns to calibrate weather radars operating at attenuating wavelengths. Journal of Geophysical Research, 2000, 105, 2281-2290.	3.3	24
53	Rain Measurement in Hilly Terrain with X-Band Weather Radar Systems: Accuracy of Path-Integrated Attenuation Estimates Derived from Mountain Returns. Journal of Atmospheric and Oceanic Technology, 1999, 16, 405-416.	0.5	35
54	Attenuation in Rain for X- and C-Band Weather Radar Systems: Sensitivity with respect to the Drop Size Distribution. Journal of Applied Meteorology and Climatology, 1999, 38, 57-68.	1.7	37

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55	Feasibility of Using Mountain Return for the Correction of Ground-Based X-Band Weather Radar Data. Journal of Atmospheric and Oceanic Technology, 1997, 14, 368-385.	0.5	58
56	Use of a weather radar for the hydrology of a mountainous area. Part I: radar measurement interpretation. Journal of Hydrology, 1997, 193, 1-25.	2.3	107
57	Simulation of Radar Mountain Returns Using a Digitized Terrain Model. Journal of Atmospheric and Oceanic Technology, 1995, 12, 1038-1049.	0.5	60
58	Weather radar and urban hydrology: advantages and limitations of X-band light configuration systems. Atmospheric Research, 1991, 27, 159-168.	1.8	12
59	Rain Measurement by Raingage-Radar Combination: A Geostatistical Approach. Journal of Atmospheric and Oceanic Technology, 1988, 5, 102-115.	0.5	100