

Jean-Dominique Creutin

List of Publications by Year in descending order

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68
papers

3,456
citations

136740

32
h-index

143772

57
g-index

68
all docs

68
docs citations

68
times ranked

2828
citing authors

#	ARTICLE	IF	CITATIONS
1	Temporal and spatial resolution of rainfall measurements required for urban hydrology. <i>Journal of Hydrology</i> , 2004, 299, 166-179.	2.3	347
2	The Catastrophic Flash-Flood Event of 8 th September 2002 in the Gard Region, France: A First Case Study for the C�vannes Vivarais Mediterranean Hydrometeorological Observatory. <i>Journal of Hydrometeorology</i> , 2005, 6, 34-52.	0.7	333
3	Space-time variability of climate variables and intermittent renewable electricity production – A review. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 79, 600-617.	8.2	188
4	Surveying flash floods: gauging the ungauged extremes. <i>Hydrological Processes</i> , 2008, 22, 3883-3885.	1.1	175
5	Human exposure to flash floods – Relation between flood parameters and human vulnerability during a storm of September 2002 in Southern France. <i>Journal of Hydrology</i> , 2008, 361, 199-213.	2.3	153
6	Identification of Vertical Profiles of Radar Reflectivity for Hydrological Applications Using an Inverse Method. Part I: Formulation. <i>Journal of Applied Meteorology and Climatology</i> , 1995, 34, 225-239.	1.7	135
7	Experimental System for Real-Time Discharge Estimation Using an Image-Based Method. <i>Journal of Hydrologic Engineering - ASCE</i> , 2008, 13, 105-110.	0.8	127
8	Radar hydrology modifies the monitoring of flash-flood hazard. <i>Hydrological Processes</i> , 2003, 17, 1453-1456.	1.1	115
9	Hydrologic Visibility of Weather Radar Systems Operating in Mountainous Regions: Case Study for the Ard�che Catchment (France). <i>Journal of Hydrometeorology</i> , 2002, 3, 539-555.	0.7	114
10	DEVEX-disdrometer evaluation experiment: Basic results and implications for hydrologic studies. <i>Advances in Water Resources</i> , 2006, 29, 311-325.	1.7	99
11	Experimental evidence of a general description for raindrop size distribution properties. <i>Journal of Geophysical Research</i> , 1998, 103, 1785-1797.	3.3	86
12	Surface runoff in urban catchments: morphological identification of unit hydrographs from urban databanks. <i>Journal of Hydrology</i> , 2003, 283, 146-168.	2.3	79
13	Radar rainfall estimation for the identification of debris-flow occurrence thresholds. <i>Journal of Hydrology</i> , 2014, 519, 1607-1619.	2.3	77
14	A space and time framework for analyzing human anticipation of flash floods. <i>Journal of Hydrology</i> , 2013, 482, 14-24.	2.3	75
15	Sensitivity study of large-scale particle image velocimetry measurement of river discharge using numerical simulation. <i>Journal of Hydrology</i> , 2008, 349, 178-190.	2.3	73
16	A regional GEV scale-invariant framework for Intensity–Duration–Frequency analysis. <i>Journal of Hydrology</i> , 2016, 540, 82-95.	2.3	71
17	Sensitivity of the hydrological response to the variability of rainfall fields and soils for the Gard 2002 flash-flood event. <i>Journal of Hydrology</i> , 2010, 394, 134-147.	2.3	68
18	Catchment dynamics and social response during flash floods: the potential of radar rainfall monitoring for warning procedures. <i>Meteorological Applications</i> , 2009, 16, 115-125.	0.9	67

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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	Geostatistical Analysis of Orographic Rainbands. <i>Journal of Applied Meteorology and Climatology</i> , 2001, 40, 1835-1854.	1.7	53
21	Impact of rainfall spatial aggregation on the identification of debris flow occurrence thresholds. <i>Hydrology and Earth System Sciences</i> , 2017, 21, 4525-4532.	1.9	51
22	Space-time simulation of intermittent rainfall with prescribed advection field: Adaptation of the turning band method. <i>Water Resources Research</i> , 2013, 49, 3375-3387.	1.7	50
23	Visualization of storm severity. <i>Journal of Hydrology</i> , 2005, 315, 295-307.	2.3	46
24	Analytical solutions to sampling effects in drop size distribution measurements during stationary rainfall: Estimation of bulk rainfall variables. <i>Journal of Hydrology</i> , 2006, 328, 65-82.	2.3	45
25	Quantification of Path-Integrated Attenuation for X- and C-Band Weather Radar Systems Operating in Mediterranean Heavy Rainfall. <i>Journal of Applied Meteorology and Climatology</i> , 2000, 39, 840-850.	1.7	44
26	Rainfall Regime of a Mountainous Mediterranean Region: Statistical Analysis at Short Time Steps. <i>Journal of Applied Meteorology and Climatology</i> , 2012, 51, 429-448.	0.6	40
27	An Experimental Study of Small-Scale Variability of Radar Reflectivity Using Disdrometer Observations. <i>Journal of Applied Meteorology and Climatology</i> , 2004, 43, 106-118.	1.7	39
28	Identification of Vertical Profiles of Radar Reflectivity for Hydrological Applications Using an Inverse Method. Part II: Formulation. <i>Journal of Applied Meteorology and Climatology</i> , 1995, 34, 240-259.	1.7	37
29	Attenuation in Rain for X- and C-Band Weather Radar Systems: Sensitivity with respect to the Drop Size Distribution. <i>Journal of Applied Meteorology and Climatology</i> , 1999, 38, 57-68.	1.7	37
30	Spatial estimation of debris flows-triggering rainfall and its dependence on rainfall return period. <i>Geomorphology</i> , 2017, 278, 269-279.	1.1	37
31	Rain Measurement in Hilly Terrain with X-Band Weather Radar Systems: Accuracy of Path-Integrated Attenuation Estimates Derived from Mountain Returns. <i>Journal of Atmospheric and Oceanic Technology</i> , 1999, 16, 405-416.	0.5	35
32	Numerical simulation of orographic rainbands. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	33
33	The Optical Spectropluviometer Revisited. <i>Journal of Atmospheric and Oceanic Technology</i> , 1998, 15, 1215-1222.	0.5	30
34	Point and areal validation of forecast precipitation fields. <i>Meteorological Applications</i> , 2006, 13, 1.	0.9	29
35	Impact of Climate Change on Combined Solar and Run-of-River Power in Northern Italy. <i>Energies</i> , 2018, 11, 290.	1.6	28
36	Instrumental Uncertainties in Relationships and Raindrop Fall Velocities. <i>Journal of Applied Meteorology and Climatology</i> , 2003, 42, 279-290.	1.7	28

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37	Mountain reference technique: Use of mountain returns to calibrate weather radars operating at attenuating wavelengths. <i>Journal of Geophysical Research</i> , 2000, 105, 2281-2290.	3.3	24
38	Variography of rainfall accumulation in presence of advection. <i>Journal of Hydrology</i> , 2012, 464-465, 494-504.	2.3	24
39	Influence of the Vertical Profile of Reflectivity on Radar-Estimated Rain Rates at Short Time Steps. <i>Journal of Hydrometeorology</i> , 2004, 5, 296-310.	0.7	22
40	Assessment of commuters' daily exposure to flash flooding over the roads of the Gard region, France. <i>Journal of Hydrology</i> , 2016, 541, 636-648.	2.3	22
41	Co-occurrence of Extreme Daily Rainfall in the French Mediterranean Region. <i>Water Resources Research</i> , 2017, 53, 9330-9349.	1.7	22
42	MobRISK: a model for assessing the exposure of road users to flash flood events. <i>Natural Hazards and Earth System Sciences</i> , 2017, 17, 1631-1651.	1.5	22
43	Effects of Increased Wind Power Generation on Mid-Norway's Energy Balance under Climate Change: A Market Based Approach. <i>Energies</i> , 2017, 10, 227.	1.6	21
44	Anticipating flash-floods: Multi-scale aspects of the social response. <i>Journal of Hydrology</i> , 2016, 541, 626-635.	2.3	20
45	A space-time rainfall disaggregation model adapted to Sahelian Mesoscale Convective Complexes. <i>Water Resources Research</i> , 1998, 34, 1711-1726.	1.7	19
46	The Contribution of Orographically Driven Banded Precipitation to the Rainfall Climatology of a Mediterranean Region. <i>Journal of Applied Meteorology and Climatology</i> , 2011, 50, 2235-2246.	0.6	19
47	Multiscale Evaluation of Extreme Rainfall Event Predictions Using Severity Diagrams. <i>Weather and Forecasting</i> , 2012, 27, 174-188.	0.5	18
48	Measurement of free-surface flow velocity using controlled surface waves. <i>Flow Measurement and Instrumentation</i> , 2005, 16, 47-55.	1.0	16
49	Weather radar and urban hydrology: advantages and limitations of X-band light configuration systems. <i>Atmospheric Research</i> , 1991, 27, 159-168.	1.8	12
50	Analogy of multiday sequences of atmospheric circulation favoring large rainfall accumulation over the French Alps. <i>Atmospheric Science Letters</i> , 2018, 19, e809.	0.8	12
51	Explaining recent trends in extreme precipitation in the Southwestern Alps by changes in atmospheric influences. <i>Weather and Climate Extremes</i> , 2021, 33, 100356.	1.6	11
52	Retreating winter and strengthening autumn Mediterranean influence on extreme precipitation in the Southwestern Alps over the last 60 years. <i>Environmental Research Letters</i> , 2021, 16, 034056.	2.2	9
53	Characterizing large-scale circulations driving extreme precipitation in the Northern French Alps. <i>International Journal of Climatology</i> , 2022, 42, 465-480.	1.5	9
54	Reconstruction and frequency estimates of extreme daily areal precipitation. <i>Journal of Geophysical Research</i> , 1996, 101, 26287-26295.	3.3	8

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55	The Challenges of Flash Flood Forecasting. , 2018, , 63-88.		7
56	A Regional Scale-Invariant Extreme Value Model of Rainfall Intensity-Duration-Area-Frequency Relationships. Water Resources Research, 2019, 55, 5539-5558.	1.7	7
57	Explaining Rainfall Accumulations over Several Days in the French Alps Using Low-Dimensional Atmospheric Predictors Based on Analogy. Journal of Applied Meteorology and Climatology, 2020, 59, 237-250.	0.6	6
58	Effect of Rainfall Variability on the Hydrological Behavior of Urban Basins: A Simulation Study Based on Weather Radar Data. , 2002, , 1.		3
59	A Scale-Dependent Quality Index of Areal Rainfall Prediction. Journal of Hydrometeorology, 2007, 8, 160-170.	0.7	3
60	Linking Large-Scale Circulation Descriptors to Precipitation Variability in the Northern French Alps. Geophysical Research Letters, 2021, 48, e2021GL093649.	1.5	3
61	Past evolution of western Europe large-scale circulation and link to precipitation trend in the northern French Alps. Weather and Climate Dynamics, 2022, 3, 231-250.	1.2	3
62	Instrumental agreement and retrospective analysis of trends in precipitation extremes in the French Mediterranean Region. Environmental Research Letters, 2022, 17, 074011.	2.2	2
63	Exposure to Flash Floods: The Conflict Between Human Mobility and Water Mobility. , 2018, , 211-240.		1
64	Reported Occurrence of Multiscale Flooding in an Alpine Conurbation over the Long Run (1850-2019). Water (Switzerland), 2022, 14, 548.	1.2	1
65	A Physically Based Model to Study the Role of Soils in the Generation of Urban Flow Rates. , 2002, , 1.		0
66	Mobility Exposure Scales of Analysis in the Face of Flash Floods. , 2018, , 1-22.		0
67	High-impact Weather Events: Is a Socio-hydrometeorological Characterization Possible?. , 2018, , 89-111.		0
68	Legal Evolution of the Conflict Between Water Mobility and the Mobility of People. , 2018, , 113-150.		0