Jean-Dominique Creutin

List of Publications by Year
in descending order

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	Characterizing <scp>largeâ€scale</scp> circulations driving extreme precipitation in the <scp>Northern French Alps</scp>. International Journal of Climatology, 2022, 42, 465-480.	1.5	9
2	Reported Occurrence of Multiscale Flooding in an Alpine Conurbation over the Long Run (1850â€“2019). Water (Switzerland), 2022, 14, 548.	1.2	1
3	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
4	Instrumental agreement and retrospective analysis of trends in precipitation extremes in the French Mediterranean Region. Environmental Research Letters, 2022, 17, 074011.	2.2	2
5	Retreating winter and strengthening autumn Mediterranean influence on extreme precipitation in the Southwestern Alps over the last 60 years. Environmental Research Letters, 2021, 16, 034056.	2.2	9
6	Linking Largeâ€Scale Circulation Descriptors to Precipitation Variability in the Northern French Alps. Geophysical Research Letters, 2021, 48, e2021GL093649.	1.5	3
7	Explaining recent trends in extreme precipitation in the Southwestern Alps by changes in atmospheric influences. Weather and Climate Extremes, 2021, 33, 100356.	1.6	11
8	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
9	A Regional Scaleâ€Invariant Extreme Value Model of Rainfall Intensityâ€Durationâ€Areaâ€Frequency Relationships. Water Resources Research, 2019, 55, 5539-5558.	1.7	7
10	Mobility Exposure Scales of Analysis in the Face of Flash Floods. , 2018, , 1-22.		0
11	The Challenges of Flash Flood Forecasting. , 2018, , 63-88.		7
12	High-impact Weather Events: Is a Socio-hydrometeorological Characterization Possible?. , 2018, , 89-111.		0
13	Legal Evolution of the Conflict Between Water Mobility and the Mobility of People. , 2018, , 113-150.		0
14	Exposure to Flash Floods: The Conflict Between Human Mobility and Water Mobility. , 2018, , 211-240.		1
15	Impact of Climate Change on Combined Solar and Run-of-River Power in Northern Italy. Energies, 2018, 11, 290.	1.6	28
16	Analogy of multiday sequences of atmospheric circulation favoring large rainfall accumulation over the French Alps. Atmospheric Science Letters, 2018, 19, e809.	0.8	12
17	Spatial estimation of debris flows-triggering rainfall and its dependence on rainfall return period. Geomorphology, 2017, 278, 269-279.	1.1	37
18	Space-time variability of climate variables and intermittent renewable electricity production â€“ A review. Renewable and Sustainable Energy Reviews, 2017, 79, 600-617.	8.2	188

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19	Coâ€Occurrence of Extreme Daily Rainfall in the French Mediterranean Region. Water Resources Research, 2017, 53, 9330-9349.	1.7	22
20	Effects of Increased Wind Power Generation on Mid-Norwayâ€™s Energy Balance under Climate Change: A Market Based Approach. Energies, 2017, 10, 227.	1.6	21
21	MobRISK: a model for assessing the exposure of road users to flash flood events. Natural Hazards and Earth System Sciences, 2017, 17, 1631-1651.	1.5	22
22	Impact of rainfall spatial aggregation on the identification of debris flow occurrence thresholds. Hydrology and Earth System Sciences, 2017, 21, 4525-4532.	1.9	51
23	Assessment of commutersâ€™ daily exposure to flash flooding over the roads of the Gard region, France. Journal of Hydrology, 2016, 541, 636-648.	2.3	22
24	A regional GEV scale-invariant framework for Intensityâ€“Durationâ€“Frequency analysis. Journal of Hydrology, 2016, 540, 82-95.	2.3	71
25	Anticipating flash-floods: Multi-scale aspects of the social response. Journal of Hydrology, 2016, 541, 626-635.	2.3	20
26	Social and Hydrological Responses to Extreme Precipitations: An Interdisciplinary Strategy for Postflood Investigation. Weather, Climate, and Society, 2014, 6, 135-153.	0.5	66
27	Radar rainfall estimation for the identification of debris-flow occurrence thresholds. Journal of Hydrology, 2014, 519, 1607-1619.	2.3	77
28	Space-time simulation of intermittent rainfall with prescribed advection field: Adaptation of the turning band method. Water Resources Research, 2013, 49, 3375-3387.	1.7	50
29	A space and time framework for analyzing human anticipation of flash floods. Journal of Hydrology, 2013, 482, 14-24.	2.3	75
30	Rainfall Regime of a Mountainous Mediterranean Region: Statistical Analysis at Short Time Steps. Journal of Applied Meteorology and Climatology, 2012, 51, 429-448.	0.6	40
31	Multiscale Evaluation of Extreme Rainfall Event Predictions Using Severity Diagrams. Weather and Forecasting, 2012, 27, 174-188.	0.5	18
32	Variography of rainfall accumulation in presence of advection. Journal of Hydrology, 2012, 464-465, 494-504.	2.3	24
33	The Contribution of Orographically Driven Banded Precipitation to the Rainfall Climatology of a Mediterranean Region. Journal of Applied Meteorology and Climatology, 2011, 50, 2235-2246.	0.6	19
34	Sensitivity of the hydrological response to the variability of rainfall fields and soils for the Gard 2002 flash-flood event. Journal of Hydrology, 2010, 394, 134-147.	2.3	68
35	Catchment dynamics and social response during flash floods: the potential of radar rainfall monitoring for warning procedures. Meteorological Applications, 2009, 16, 115-125.	0.9	67
36	Surveying flash floods: gauging the ungauged extremes. Hydrological Processes, 2008, 22, 3883-3885.	1.1	175

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37	Human exposure to flash floods â€“ Relation between flood parameters and human vulnerability during a storm of September 2002 in Southern France. Journal of Hydrology, 2008, 361, 199-213.	2.3	153
38	Sensitivity study of large-scale particle image velocimetry measurement of river discharge using numerical simulation. Journal of Hydrology, 2008, 349, 178-190.	2.3	73
39	Experimental System for Real-Time Discharge Estimation Using an Image-Based Method. Journal of Hydrologic Engineering - ASCE, 2008, 13, 105-110.	0.8	127
40	A Scale-Dependent Quality Index of Areal Rainfall Prediction. Journal of Hydrometeorology, 2007, 8, 160-170.	0.7	3
41	Analytical solutions to sampling effects in drop size distribution measurements during stationary rainfall: Estimation of bulk rainfall variables. Journal of Hydrology, 2006, 328, 65-82.	2.3	45
42	Point and areal validation of forecast precipitation fields. Meteorological Applications, 2006, 13, 1.	0.9	29
43	DEVEX-disdrometer evaluation experiment: Basic results and implications for hydrologic studies. Advances in Water Resources, 2006, 29, 311-325.	1.7	99
44	Measurement of free-surface flow velocity using controlled surface waves. Flow Measurement and Instrumentation, 2005, 16, 47-55.	1.0	16
45	The Catastrophic Flash-Flood Event of 8â€“9 September 2002 in the Gard Region, France: A First Case Study for the CÃ©vennesâ€“Vivarais Mediterranean Hydrometeorological Observatory. Journal of Hydrometeorology, 2005, 6, 34-52.	0.7	333
46	Visualization of storm severity. Journal of Hydrology, 2005, 315, 295-307.	2.3	46
47	An Experimental Study of Small-Scale Variability of Radar Reflectivity Using Disdrometer Observations. Journal of Applied Meteorology and Climatology, 2004, 43, 106-118.	1.7	39
48	Temporal and spatial resolution of rainfall measurements required for urban hydrology. Journal of Hydrology, 2004, 299, 166-179.	2.3	347
49	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
50	Radar hydrology modifies the monitoring of flash-flood hazard. Hydrological Processes, 2003, 17, 1453-1456.	1.1	115
51	Numerical simulation of orographic rainbands. Journal of Geophysical Research, 2003, 108, .	3.3	33
52	Surface runoff in urban catchments: morphological identification of unit hydrographs from urban databanks. Journal of Hydrology, 2003, 283, 146-168.	2.3	79
53	Instrumental Uncertainties inZâ€“RRelationships and Raindrop Fall Velocities. Journal of Applied Meteorology and Climatology, 2003, 42, 279-290.	1.7	28
54	Hydrologic Visibility of Weather Radar Systems Operating in Mountainous Regions: Case Study for the ArdÃ¨che Catchment (France). Journal of Hydrometeorology, 2002, 3, 539-555.	0.7	114

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55	A Physically Based Model to Study the Role of Soils in the Generation of Urban Flow Rates. , 2002, , 1.		0
56	Effect of Rainfall Variability on the Hydrological Behavior of Urban Basins: A Simulation Study Based on Weather Radar Data. , 2002, , 1.		3
57	Geostatistical Analysis of Orographic Rainbands. Journal of Applied Meteorology and Climatology, 2001, 40, 1835-1854.	1.7	53
58	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
59	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
60	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
61	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
62	Experimental evidence of a general description for raindrop size distribution properties. Journal of Geophysical Research, 1998, 103, 1785-1797.	3.3	86
63	A space-time rainfall disaggregation model adapted to Sahelian Mesoscale Convective Complexes. Water Resources Research, 1998, 34, 1711-1726.	1.7	19
64	The Optical Spectropluviometer Revisited. Journal of Atmospheric and Oceanic Technology, 1998, 15, 1215-1222.	0.5	30
65	Reconstruction and frequency estimates of extreme daily areal precipitation. Journal of Geophysical Research, 1996, 101, 26287-26295.	3.3	8
66	Identification of Vertical Profiles of Radar Reflectivity for Hydrological Applications Using an Inverse Method. Part I: Formulation. Journal of Applied Meteorology and Climatology, 1995, 34, 225-239.	1.7	135
67	Identification of Vertical Profiles of Radar Reflectivity for Hydrological Applications Using an Inverse Method. Part II: Formulation. Journal of Applied Meteorology and Climatology, 1995, 34, 240-259.	1.7	37
68	Weather radar and urban hydrology: advantages and limitations of X-band light configuration systems. Atmospheric Research, 1991, 27, 159-168.	1.8	12