Sandrine Anquetin

List of Publications by Year
in descending order

60 papers	2,877 citations	201385 27 h-index	174990 52 g-index
73 all docs	73 docs citations	73 times ranked	2843 citing authors

#	Article	IF	Citations
1	Pollutant dispersion and thermal effects in urban street canyons. Atmospheric Environment, 1996, 30, 2659-2677.	1.9	490
2	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
3	Flash flood warning based on rainfall thresholds and soil moisture conditions: An assessment for gauged and ungauged basins. Journal of Hydrology, 2008, 362, 274-290.	2.3	299
4	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
5	Dynamic vulnerability factors for impact-based flash flood prediction. Natural Hazards, 2015, 79, 1481-1497.	1.6	85
6	A Situation-Based Analysis of Flash Flood Fatalities in the United States. Bulletin of the American Meteorological Society, 2017, 98, 333-345.	1.7	83
7	The benefit of high-resolution operational weather forecasts for flash flood warning. Hydrology and Earth System Sciences, 2008, 12, 1039-1051.	1.9	71
8	The use of distributed hydrological models for the Gard 2002 flash flood event: Analysis of associated hydrological processes. Journal of Hydrology, 2010, 394, 162-181.	2.3	70
9	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
10	Social and Hydrological Responses to Extreme Precipitations: An Interdisciplinary Strategy for Postflood Investigation. Weather, Climate, and Society, 2014, 6, 135-153.	0.5	66
11	Multi-scale hydrometeorological observation and modelling for flash flood understanding. Hydrology and Earth System Sciences, 2014, 18, 3733-3761.	1.9	61
12	Combined analysis of energy and water balances to estimate latent heat flux of a sudanian small catchment. Journal of Hydrology, 2009, 375, 227-240.	2.3	59
13	Geostatistical Analysis of Orographic Rainbands. Journal of Applied Meteorology and Climatology, 2001, 40, 1835-1854.	1.7	53
14	The Formation and Destruction of Inversion Layers within a Deep Valley. Journal of Applied Meteorology and Climatology, 1998, 37, 1547-1560.	1.7	51
15	A dynamic runoff co-efficient to improve flash flood early warning in Europe: evaluation on the 2013 central European floods in Germany. Meteorological Applications, 2015, 22, 410-418.	0.9	49
16	Toward Probabilistic Prediction of Flash Flood Human Impacts. Risk Analysis, 2019, 39, 140-161.	1.5	48
17	A modeling approach to assess the hydrological response of small mediterranean catchments to the variability of soil characteristics in a context of extreme events. Hydrology and Earth System Sciences, 2009, 13, 79-97.	1.9	47
18	Coupling the ISBA Land Surface Model and the TOPMODEL Hydrological Model for Mediterranean Flash-Flood Forecasting: Description, Calibration, and Validation. Journal of Hydrometeorology, 2010, 11, 315-333.	0.7	42

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19	Towards multi-scale integrated hydrological models using the LIQUIDÂ® framework. Overview of the concepts and first application examples. Environmental Modelling and Software, 2010, 25, 1672-1681.	1.9	41
20	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
21	Potential impact of climate change on solar resource in Africa for photovoltaic energy: analyses from CORDEX-AFRICA climate experiments. Environmental Research Letters, 2019, 14, 124039.	2.2	40
22	Thermal valley inversion impact on the dispersion of a passive pollutant in a complex mountainous area. Atmospheric Environment, 1999, 33, 3953-3959.	1.9	38
23	Integrating hydropower and intermittent climateâ€related renewable energies: a call for hydrology. Hydrological Processes, 2014, 28, 5465-5468.	1.1	38
24	Regional estimation of catchment-scale soil properties by means of streamflow recession analysis for use in distributed hydrological models. Hydrological Processes, 2014, 28, 6276-6291.	1.1	36
25	Impacts of orography and rain intensity on rainfall structure. The case of the <scp>HyMeX IOP7a</scp> event. Quarterly Journal of the Royal Meteorological Society, 2016, 142, 310-319.	1.0	35
26	Numerical simulation of orographic rainbands. Journal of Geophysical Research, 2003, 108, .	3.3	33
27	Point and areal validation of forecast precipitation fields. Meteorological Applications, 2006, 13, 1.	0.9	29
28	Evaluation of classical spatial-analysis schemes of extreme rainfall. Natural Hazards and Earth System Sciences, 2012, 12, 3229-3240.	1.5	28
29	Long-term observations of turbulent fluxes over heterogeneous vegetation using scintillometry and additional observations: A contribution to AMMA under Sudano-Sahelian climate. Agricultural and Forest Meteorology, 2012, 154-155, 84-98.	1.9	26
30	Contrasting seasonal changes in total and intense precipitation in the European Alps fromÂ1903 toÂ2010. Hydrology and Earth System Sciences, 2020, 24, 5355-5377.	1.9	25
31	Investigating the role of geology in the hydrological response of Mediterranean catchments prone to flash-floods: Regional modelling study and process understanding. Journal of Hydrology, 2016, 541, 158-172.	2.3	23
32	Modeling flash floods in southern France for road management purposes. Journal of Hydrology, 2016, 541, 190-205.	2.3	22
33	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
34	Spatioâ€temporal variability of cloud cover types in West Africa with satelliteâ€based and reanalysis data. Quarterly Journal of the Royal Meteorological Society, 2019, 145, 3715-3731.	1.0	22
35	Atmospheric analogues for physically consistent scenarios of surface weather in Europe and Maghreb. International Journal of Climatology, 2017, 37, 2160-2176.	1.5	21
36	Assessment of Spatio-Temporal Changes of Land Use and Land Cover over South-Western African Basins and Their Relations with Variations of Discharges. Hydrology, 2018, 5, 56.	1.3	21

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37	Sensitivity study of the regional climate model RegCM4 to different convective schemes over West Africa. Earth System Dynamics, 2018, 9, 1261-1278.	2.7	20
38	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
39	Multiscale Evaluation of Extreme Rainfall Event Predictions Using Severity Diagrams. Weather and Forecasting, 2012, 27, 174-188.	0.5	18
40	A CMIP6 assessment of the potential climate change impacts on solar photovoltaic energy and its atmospheric drivers in West Africa. Environmental Research Letters, 2022, 17, 044016.	2.2	18
41	Flash flood forecasting within the PREVIEW project: value of high-resolution hydrometeorological coupled forecast. Meteorology and Atmospheric Physics, 2009, 103, 115-125.	0.9	16
42	Hydrometeorological modelling for flash flood areas: the case of the 2002 Gard event in France. Journal of Flood Risk Management, 2009, 2, 101-110.	1.6	13
43	Lâ€™Ã©vÃ©nement des 8-9 septembre 2002Â: situation mÃ©tÃ©orologique et simulation a mÃ©soÃ©chelle. Houille Blanche, 2004, 90, 86-92.	0.3	11
44	Human vulnerability to flash floods. , 2008, , 1005-1012.		11
45	Rainfall regimes associated with banded convection in the CÃ©vennes-Vivarais area. Meteorology and Atmospheric Physics, 2009, 103, 25-34.	0.9	10
46	Climate, Land Use and Land Cover Changes in the Bandama Basin (CÃ´te Dâ€™Ivoire, West Africa) and Incidences on Hydropower Production of the Kossou Dam. Land, 2019, 8, 103.	1.2	9
47	Twentieth century temperature and snow cover changes in the French Alps. Regional Environmental Change, 2021, 21, 1.	1.4	9
48	Toward a Spaceâ€“Time Framework for Integrated Water and Society Studies. Bulletin of the American Meteorological Society, 2012, 93, ES89-ES91.	1.7	8
49	The Challenges of Flash Flood Forecasting. , 2018, , 63-88.		7
50	Sustainable Hydroelectric Dam Management in the Context of Climate Change: Case of the Taabo Dam in CÃ´te Dâ€™Ivoire, West Africa. Sustainability, 2019, 11, 4846.	1.6	6
51	Cloudiness Information Services for Solar Energy Management in West Africa. Atmosphere, 2020, 11, 857.	1.0	6
52	Daytime low-level clouds in West Africa â€“ occurrence, associated drivers, and shortwave radiation attenuation. Earth System Dynamics, 2020, 11, 1133-1152.	2.7	6
53	Influence of initial soil moisture in a regional climate model study over West Africa â€“ PartÂ2: Impact on the climate extremes. Hydrology and Earth System Sciences, 2022, 26, 731-754.	1.9	4
54	A Scale-Dependent Quality Index of Areal Rainfall Prediction. Journal of Hydrometeorology, 2007, 8, 160-170.	0.7	3

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55	Is Precipitation the Main Trigger of Medium-Magnitude Floods in Large Alpine Catchments?. Water (Switzerland), 2019, 11, 2507.	1.2	3
56	Influence of initial soil moisture in a regional climate model study over West Africa â€“ PartÂ1: Impact on the climate mean. Hydrology and Earth System Sciences, 2022, 26, 711-730.	1.9	3
57	Potential changes in temperature extreme events under global warming at 1.5Â°C and 2Â°C over CÃ´te dâ€™Ivoire. , 0, , .		2
58	Exposure to Flash Floods: The Conflict Between Human Mobility and Water Mobility. , 2018, , 211-240.		1
59	Geo-historical database of flood impacts in Alpine catchments (HIFAVa database, Arve River, France,) Tj ETQq1 1 0.784314 rgBT /Over	1.5	1
60	High-impact Weather Events: Is a Socio-hydrometeorological Characterization Possible?. , 2018, , 89-111.		0