## Isabelle Braud

List of Publications by Year in descending order

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Version: 2024-02-01

257450 276875 1,931 62 24 41 h-index citations g-index papers 83 83 83 2931 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	HyMeX-SOP1: The Field Campaign Dedicated to Heavy Precipitation and Flash Flooding in the Northwestern Mediterranean. Bulletin of the American Meteorological Society, 2014, 95, 1083-1100.	3.3	262
2	Crowdsourced data for flood hydrology: Feedback from recent citizen science projects in Argentina, France and New Zealand. Journal of Hydrology, 2016, 541, 766-777.	5.4	153
3	Partitioning evapotranspiration fluxes into soil evaporation and plant transpiration using water stable isotopes under controlled conditions. Hydrological Processes, 2010, 24, 3177-3194.	2.6	106
4	Development and analysis of the Soil Water Infiltration Global database. Earth System Science Data, 2018, 10, 1237-1263.	9.9	85
5	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.	5.4	70
6	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.	5.4	68
7	Modelling heat and water exchanges of fallow land covered with plant-residue mulch. Agricultural and Forest Meteorology, 1999, 97, 151-169.	4.8	66
8	Integrated high-resolution dataset of high-intensity European and Mediterranean flash floods. Earth System Science Data, 2018, 10, 1783-1794.	9.9	62
9	Multi-scale hydrometeorological observation and modelling for flash flood understanding. Hydrology and Earth System Sciences, 2014, 18, 3733-3761.	4.9	61
10	Comparison of root water uptake modules using either the surface energy balance or potential transpiration. Journal of Hydrology, 2005, 301, 267-286.	5.4	54
11	Constraining a physically based Soil-Vegetation-Atmosphere Transfer model with surface water content and thermal infrared brightness temperature measurements using a multiobjective approach. Water Resources Research, 2005, 41, .	4.2	43
12	Factors controlling the isotopic partitioning between soil evaporation and plant transpiration: Assessment using a multi-objective calibration of SiSPAT-Isotope under controlled conditions. Journal of Hydrology, 2012, 442-443, 75-88.	5.4	42
13	Multi-objective regional modelling. Journal of Hydrology, 2006, 327, 339-351.	5.4	41
14	Precipitation, soil moisture and runoff variability in a small river catchment (Ardèche, France) during HyMeX Special Observation Period 1. Journal of Hydrology, 2014, 516, 330-342.	5.4	38
15	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.	2.6	36
16	Comparison of catchment and network delineation approaches in complex suburban environments: application to the Chaudanne catchment, France. Hydrological Processes, 2013, 27, 3747-3761.	2.6	35
17	SVAT modeling over the Alpilles-ReSeDA experiment: comparing SVAT models over wheat fields. Agronomy for Sustainable Development, 2002, 22, 651-668.	0.8	32
18	Intermittent rivers and ephemeral streams: Perspectives for critical zone science and research on socioâ€ecosystems. Wiley Interdisciplinary Reviews: Water, 2021, 8, e1523.	6.5	31

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19	A Linking Test to reduce the number of hydraulic parameters necessary to simulate groundwater recharge in unsaturated soils. Advances in Water Resources, 2008, 31, 355-369.	3.8	28
20	Steering operational synergies in terrestrial observation networks: opportunity for advancing Earth system dynamics modelling. Earth System Dynamics, 2018, 9, 593-609.	7.1	28
21	Spatial variability of surface properties and estimation of surface fluxes of a savannah. Agricultural and Forest Meteorology, 1998, 89, 15-44.	4.8	27
22	Assessment of evaporation and water fluxes in a column of dry saline soil subject to different water table levels. Hydrological Processes, 2014, 28, 3655-3669.	2.6	25
23	Detecting surface runoff location in a small catchment using distributed and simple observation method. Journal of Hydrology, 2015, 525, 113-129.	5.4	25
24	Building a field- and model-based climatology of local water and energy cycles in the cultivated Sahel $\hat{a} \in \text{``annual budgets and seasonality. Hydrology and Earth System Sciences, 2014, 18, 5001-5024.}$	4.9	23
25	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.	5.4	23
26	How does initial soil moisture influence the hydrological response? A case study from southern France. Hydrology and Earth System Sciences, 2018, 22, 6127-6146.	4.9	22
27	Spatial Variability of Soil Surface Properties and Consequences for the Annual and Monthly Water Balance of a Semiarid Environment (EFEDA Experiment). Journal of Hydrometeorology, 2003, 4, 121-137.	1.9	21
28	Monitoring energy and mass transfers during the Alpilles-ReSeDA experiment. Agronomy for Sustainable Development, 2002, 22, 597-610.	0.8	21
29	Assessing the simple dynamical systems approach in a Mediterranean context: application to the ArdÄ'che catchment (France). Hydrology and Earth System Sciences, 2015, 19, 2427-2449.	4.9	20
30	Description and evaluation of a surface runoff susceptibility mapping method. Journal of Hydrology, 2016, 541, 495-509.	5.4	20
31	Adapting HYDRUS-1D to simulate the transport of soil water isotopes with evaporation fractionation. Environmental Modelling and Software, 2021, 143, 105118.	4.5	20
32	A high space–time resolution dataset linking meteorological forcing and hydro-sedimentary responseÂinÂa mesoscale Mediterranean catchment (Auzon) ofÂtheĀArdÔche region, France. Earth System Science Data, 2017, 9, 221-249.	9.9	20
33	Analyse conjointe des régimes pluviométriques et hydrologiques dans le bassin de la Tafna (Algérie) Tj ET	Qq1.1 0.7	'843]4 rgBT
34	Mapping topsoil field-saturated hydraulic conductivity from point measurements using different methods. Journal of Hydrology and Hydromechanics, 2017, 65, 264-275.	2.0	19
35	Incorporation of water vapor transfer in the JULES land surface model: Implications for key soil variables and land surface fluxes. Water Resources Research, 2012, 48, .	4.2	17
36	A methodology to quantify ecohydrological services of street trees. Ecohydrology and Hydrobiology, 2017, 17, 190-206.	2.3	16

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37	Modelling evaporation processes in soils from the Huasco salt flat basin, Chile. Hydrological Processes, 2016, 30, 4704-4719.	2.6	14
38	Impact of Urban Growth and High Residential Irrigation on Streamflow and Groundwater Levels in a Periâ€Urban Semiarid Catchment. Journal of the American Water Resources Association, 2019, 55, 720-739.	2.4	14
39	A surface runoff mapping method for optimizing risk assessment on railways. Safety Science, 2018, 110, 253-267.	4.9	13
40	From agricultural catchment to management scenarios: A modular tool to assess effects of landscape features on water and pesticide behavior. Science of the Total Environment, 2019, 671, 1144-1160.	8.0	13
41	The impact of evaporation fractionation on the inverse estimation of soil hydraulic and isotope transport parameters. Journal of Hydrology, 2022, 612, 128100.	5.4	13
42	Value of distributed water level and soil moisture data in the evaluation of a distributed hydrological model: Application to the PUMMA model in the Mercier catchment (6.6†km2) in France. Journal of Hydrology, 2019, 569, 753-770.	5.4	11
43	Urban hydrologic trend analysis based on rainfall and runoff data analysis and conceptual model calibration. Hydrological Processes, 2017, 31, 1349-1359.	2.6	10
44	Dealing with shallow groundwater contexts for the modelling of urban hydrology – A simplified approach to represent interactions between surface hydrology, groundwater and underground structures in hydrological models. Environmental Modelling and Software, 2021, 144, 105144.	4.5	10
45	A Linking Test that establishes if groundwater recharge can be determined by optimising vegetation parameters against soil moisture. Annals of Forest Science, 2008, 65, 702-702.	2.0	9
46	A method to use proxy data of runoff-related impacts for the evaluation of a model mapping intense storm runoff hazard: application to the railway context. Natural Hazards and Earth System Sciences, 2020, 20, 947-966.	3.6	9
47	Le partage de la ressource en eau sur la Durance en 2050Â: vers une évolution du mode de gestion des grands ouvrages duranciensÂ?. Houille Blanche, 2016, 102, 25-31.	0.3	9
48	Information content of snow hydrological signatures based on streamflow, precipitation and air temperature. Hydrological Processes, 2020, 34, 2763-2779.	2.6	8
49	The Challenges of Flash Flood Forecasting. , 2018, , 63-88.		7
50	Effect of aerodynamic resistance modelling on SiSPAT-RS simulated surface fluxes. Agronomy for Sustainable Development, 2002, 22, 641-650.	0.8	7
51	Use of post-event surveys of impacts on railways for the evaluation of the IRIP method for surface runoff mapping. E3S Web of Conferences, 2016, 7, 10005.	0.5	6
52	Building the information system of the French Critical Zone Observatories network: Theia/OZCAR-IS. Hydrological Sciences Journal, 2022, 67, 2401-2419.	2.6	6
53	Advances in flash floods understanding and modelling derived from the FloodScale project in South-East France. E3S Web of Conferences, 2016, 7, 04005.	0.5	5
54	Mise en œuvre de la méthode de cartographie du ruissellement IRIP pour l'analyse des risques lies aux écoulements sur l'infrastructure ferroviaire. Houille Blanche, 2015, 101, 56-64.	0.3	4

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55	Development and evaluation of an efficient soil-atmosphere model (FHAVeT) based on the Ross fast solution of the Richards equation for bare soil conditions. Hydrology and Earth System Sciences, 2015, 19, 969-980.	4.9	3
56	Le programme HYMEX – Connaissances et prévision des pluies intenses et crues rapides en région méditerranéenne. Houille Blanche, 2019, 105, 5-12.	0.3	3
57	Objective Analysis of Envelope Curves for Peak Floods of European and Mediterranean Flash Floods. Climate Change Management, 2020, , 267-276.	0.8	3
58	Lessons learnt from recent citizen science initiatives to document floods in France, Argentina and New Zealand. E3S Web of Conferences, 2016, 7, 16001.	0.5	2
59	Quels liens entre climatologie, occupation des sols et inondations dans le bassin versant de l'Yzeron (ouest Lyonnais) ? Apport de l'analyse conjointe de données hydroclimatiques et d'images satellitaires trés haute résolution. Climatologie, 2012, 9, 83-107.	0.2	2
60	Consequences of interactions between stormwater infiltration systems, shallow groundwater and underground structures at the neighborhood scale. Urban Water Journal, 2022, 19, 812-823.	2.1	1
61	Comparison of measured and SISPAT-RS simulated brightness temperatures and reflectances at field scale during ReSeDA experiment., 2002, 4542, 130.		O
62	Développement et évaluation d'un modà le hydrologique distribué pour des bassins périurbains - Application au bassin de l'Yzeron (150 km <sup>2</sup> ). Houille Blanche, 2015, , 84-91.	0.3	0