

Catherine Bertrand

List of Publications by Year in descending order

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38
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516710

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42
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1049
citing authors

#	ARTICLE	IF	CITATIONS
1	Statistical hydrology for evaluating peatland water table sensitivity to simple environmental variables and climate changes application to the mid-latitude/altitude Frasnian peatland (Jura). <i>Journal of Hydrology</i> , 2019, 568, 891-903.	10.784314	10
2	Landslides as geological hotspots of CO ₂ emission: clues from the instrumented Sanchilienne landslide, western European Alps. <i>Earth Surface Dynamics</i> , 2021, 9, 487-504.	2.4	3
3	Restoration and meteorological variability highlight nested water supplies in middle altitude/latitude peatlands: Towards a hydrological conceptual model of the Frasnian peatland, Jura Mountains, France. <i>Ecohydrology</i> , 2021, 14, e2315.	2.4	4
4	Structure of the Sanchilienne unstable slope from large-scale three-dimensional electrical tomography using a Resistivity Distributed Automated System (R-DAS). <i>Geophysical Journal International</i> , 2019, 219, 129-147.	2.4	13
5	Slcâ€“Abacus: An inâ€“situ tool for estimating Slc and Pco2 in the context of carbonate karst. <i>Journal of Hydrology</i> , 2019, 568, 891-903.	5.4	4
6	OZCAR: The French Network of Critical Zone Observatories. <i>Vadose Zone Journal</i> , 2018, 17, 1-24.	2.2	126
7	Preferential Water Infiltration Path in a Slow-Moving Clayey Earthslide Evidenced by Cross-Correlation of Hydrometeorological Time Series (Charlaix Landslide, French Western Alps). <i>Geofluids</i> , 2018, 2018, 1-20.	0.7	10
8	SNO KARST: A French Network of Observatories for the Multidisciplinary Study of Critical Zone Processes in Karst Watersheds and Aquifers. <i>Vadose Zone Journal</i> , 2018, 17, 1-18.	2.2	37
9	Chemical and isotopic investigations (¹⁸ O, ² H, ³ H, ⁸⁷ Sr/ ⁸⁶ Sr) to define groundwater processes occurring in a deep-seated landslide in flysch. <i>Hydrogeology Journal</i> , 2018, 26, 2669-2691.	2.1	20
10	Large 3D resistivity and IP measurement of the Sanchilienne landslide using the FullWaver system. , 2018, , .		1
11	Comparison of Flow Processes in Drains and Low Permeability Volumes of a Karst System in the French Jura Mountains: High-Resolution Hydrochemical Characterization During a Flood Event. <i>Advances in Karst Science</i> , 2017, , 303-317.	0.3	2
12	Aquifer vulnerability to pollution of Oum El-Bouaghi region in North East of Algeria. <i>Management of Environmental Quality</i> , 2017, 28, 384-399.	4.3	2
13	Hydrogeological Characterization of a Geologically Complex Karst Aquifer Using Natural Responses: An Example from Andalusia, Southern Spain. <i>Advances in Karst Science</i> , 2017, , 285-293.	0.3	1
14	Hydrochemical study of Dreaâ€“Annaba aquifer system (NE Algeria). <i>Journal of Water and Land Development</i> , 2017, 34, 259-263.	0.9	4
15	Groundwaterâ€“Surface waters interactions at slope and catchment scales: implications for landsliding in clayâ€“rich slopes. <i>Hydrological Processes</i> , 2017, 31, 364-381.	2.6	18
16	A multi-dimensional statistical rainfall threshold for deep landslides based on groundwater recharge and support vector machines. <i>Natural Hazards</i> , 2016, 84, 821-849.	3.4	15
17	Functioning and precipitation-displacement modelling of rainfall-induced deep-seated landslides subject to creep deformation. <i>Landslides</i> , 2016, 13, 653-670.	5.4	61
18	An efficient workflow to accurately compute groundwater recharge for the study of rainfall-triggered deep-seated landslides, application to the Sanchilienne unstable slope (western Alps). <i>Hydrology and Earth System Sciences</i> , 2015, 19, 427-449.	4.9	18

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19	Hydrochemical response of a fractured carbonate aquifer to stress variations: application to leakage detection of the Vouglans arch dam lake (Jura, France). <i>Environmental Earth Sciences</i> , 2015, 74, 7671-7683.	2.7	5
20	Contribution of time-related environmental tracing combined with tracer tests for characterization of a groundwater conceptual model: a case study at the SÃ©chilienne landslide, western Alps (France). <i>Hydrogeology Journal</i> , 2015, 23, 1761-1779.	2.1	24
21	Hydrochemical Approach of Mechanical Degradation of the SÃ©chilienne Unstable Slope. , 2015, , 2137-2141.		2
22	Hydrogeological Threshold Using Support Vector Machines and Effective Rainfall Applied to a Deep Seated Unstable Slope (SÃ©chilienne, French Alps). , 2015, , 2143-2146.		1
23	Introductory Editorial. <i>Environmental Earth Sciences</i> , 2014, 71, 505-506.	2.7	0
24	Porosity gain and loss in unconventional reservoirs: Example of rock typing in Lower Cretaceous hemipelagic limestones, SE France (Provence). <i>Marine and Petroleum Geology</i> , 2013, 48, 186-205.	3.3	20
25	Conceptual hydrogeological model of flow and transport of dissolved organic carbon in a small Jura karst system. <i>Journal of Hydrology</i> , 2012, 460-461, 52-64.	5.4	68
26	Use of continuous measurements of dissolved organic matter fluorescence in groundwater to characterize fast infiltration through an unstable fractured hillslope (Valabres rockfall, French) Tj ETQq0 0 0 rgBT /Overlock 107f 50 457		
27	Use of Dissolved Organic Carbon to Characterize Infiltration in a Small Karst System in the French Jura Mountains (Fertans, France). <i>Environmental Earth Sciences</i> , 2010, , 151-156.	0.2	2
28	Variability of the groundwater sulfate concentration in fractured rock slopes: a tool to identify active unstable areas. <i>Hydrology and Earth System Sciences</i> , 2009, 13, 2315-2327.	4.9	17
29	Hydraulic interactions between fractures and bedding planes in a carbonate aquifer studied by means of experimentally induced water-table fluctuations (Coaraze experimental site, southeastern France). <i>Hydrogeology Journal</i> , 2009, 17, 1607-1616.	2.1	14
30	In situ characterization of flows in a fractured unstable slope. <i>Geomorphology</i> , 2007, 86, 193-203.	2.6	21
31	Unstable rock slope hydrogeology: insights from the large-scale study of western Argentera-Mercantour hillslopes (South-East France). <i>Bulletin - Societie Geologique De France</i> , 2007, 178, 159-168.	2.2	16
32	Hydrogeochemistry in landslide research: a review. <i>Bulletin - Societie Geologique De France</i> , 2007, 178, 113-126.	2.2	49
33	Experimental analysis of groundwater flow through a landslide slip surface using natural and artificial water chemical tracers. <i>Hydrological Processes</i> , 2007, 21, 3463-3472.	2.6	26
34	Identifying the origin of groundwater and flow processes in complex landslides affecting black marls: insights from a hydrochemical survey. <i>Earth Surface Processes and Landforms</i> , 2007, 32, 32-48.	2.5	48
35	Estimation of quantitative descriptors of northeastern Mediterranean karst behavior: multiparametric study and local validation of the Siou-Blanc massif (Toulon, France). <i>Hydrogeology Journal</i> , 2006, 14, 1107-1121.	2.1	14
36	Evolution of the aqueous geochemistry of mine pit lakes â€“ Blanzÿâ€“Montceau-les-Mines coal basin (Massif Central, France): origin of sulfate contents; effects of stratification on water quality. <i>Applied Geochemistry</i> , 2005, 20, 825-839.	3.0	49

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37	Post-seismic permeability change in a shallow fractured aquifer following a ML5.1 earthquake (Fourbanne karst aquifer, Jura outermost thrust unit, eastern France). <i>Geophysical Research Letters</i> , 2005, 32, n/a-n/a.	4.0	35
38	Hydrogeological investigation of Pietra di Bismantova slab and surrounding slope deposits (northern Tj ETQq0 0 0 rgBT /Overlock 10 Tf	0.3	3