

Alexandre Badoux

List of Publications by Year in descending order

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Version: 2024-02-01

36
papers

2,112
citations

257101

24
h-index

360668

35
g-index

53
all docs

53
docs citations

53
times ranked

1914
citing authors

#	ARTICLE	IF	CITATIONS
1	The Swiss flood and landslide damage database 1972–2007. <i>Natural Hazards and Earth System Sciences</i> , 2009, 9, 913-925.	1.5	205
2	The impact of exceptional events on erosion, bedload transport and channel stability in a step-pool channel. <i>Earth Surface Processes and Landforms</i> , 2009, 34, 1661-1673.	1.2	202
3	A debris-flow alarm system for the Alpine Illgraben catchment: design and performance. <i>Natural Hazards</i> , 2009, 49, 517-539.	1.6	149
4	A comparative study in modelling runoff and its components in two mountainous catchments. <i>Hydrological Processes</i> , 2003, 17, 297-311.	1.1	134
5	Start and end of bedload transport in gravel-bed streams. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	1.5	125
6	Evaluation of bedload transport predictions using flow resistance equations to account for macro-roughness in steep mountain streams. <i>Water Resources Research</i> , 2011, 47, .	1.7	118
7	Large wood recruitment processes and transported volumes in Swiss mountain streams during the extreme flood of August 2005. <i>Geomorphology</i> , 2017, 279, 112-127.	1.1	90
8	Limits of sediment transfer in an alpine debris-flow catchment, Illgraben, Switzerland. <i>Quaternary Science Reviews</i> , 2009, 28, 1097-1105.	1.4	89
9	Natural hazard fatalities in Switzerland from 1946 to 2015. <i>Natural Hazards and Earth System Sciences</i> , 2016, 16, 2747-2768.	1.5	89
10	Distributed hydrological modelling of a heavily glaciated Alpine river basin. <i>Hydrological Sciences Journal</i> , 2001, 46, 553-570.	1.2	85
11	Bed load sediment transport inferred from seismic signals near a river. <i>Journal of Geophysical Research F: Earth Surface</i> , 2016, 121, 725-747.	1.0	73
12	Macroroughness and variations in reach-averaged flow resistance in steep mountain streams. <i>Water Resources Research</i> , 2012, 48, .	1.7	64
13	Damage costs due to bedload transport processes in Switzerland. <i>Natural Hazards and Earth System Sciences</i> , 2014, 14, 279-294.	1.5	64
14	Large floods, alluvial overprint, and bedrock erosion. <i>Earth Surface Processes and Landforms</i> , 2013, 38, 947-958.	1.2	51
15	One hundred years of mountain hydrology in Switzerland by the WSL. <i>Hydrological Processes</i> , 2006, 20, 371-376.	1.1	47
16	Significance of sediment transport processes during piedmont floods: the 2005 flood events in Switzerland. <i>Earth Surface Processes and Landforms</i> , 2016, 41, 224-230.	1.2	46
17	Investigations on the runoff generation at the profile and plot scales, Swiss Emmental. <i>Hydrological Processes</i> , 2006, 20, 377-394.	1.1	38
18	The mass distribution of coarse particulate organic matter exported from an Alpine headwater stream. <i>Earth Surface Dynamics</i> , 2013, 1, 1-11.	1.0	38

#	ARTICLE	IF	CITATIONS
19	Controls and feedbacks in the coupling of mountain channels and hillslopes. <i>Geology</i> , 2017, 45, 307-310.	2.0	36
20	Resistance Is Not Futile: Grain Resistance Controls on Observed Critical Shields Stress Variations. <i>Journal of Geophysical Research F: Earth Surface</i> , 2018, 123, 3308-3322.	1.0	36
21	Impacts of a large flood along a mountain river basin: the importance of channel widening and estimating the large wood budget in the upper Emme River (Switzerland). <i>Earth Surface Dynamics</i> , 2018, 6, 1115-1137.	1.0	33
22	The role of log jams and exceptional flood events in mobilizing coarse particulate organic matter in a steep headwater stream. <i>Earth Surface Dynamics</i> , 2015, 3, 311-320.	1.0	32
23	The Swiss flood and landslide damage database: Normalisation and trends. <i>Journal of Flood Risk Management</i> , 2019, 12, .	1.6	29
24	Bed load transport and boundary roughness changes as competing causes of hysteresis in the relationship between river discharge and seismic amplitude recorded near a steep mountain stream. <i>Journal of Geophysical Research F: Earth Surface</i> , 2017, 122, 1182-1200.	1.0	28
25	Rainfall intensityâ€duration thresholds for bedload transport initiation in small Alpine watersheds. <i>Natural Hazards and Earth System Sciences</i> , 2012, 12, 3091-3108.	1.5	27
26	Testing models of step formation against observations of channel steps in a steep mountain stream. <i>Earth Surface Processes and Landforms</i> , 2019, 44, 1390-1406.	1.2	27
27	Range imaging: a new method for highâ€resolution topographic measurements in smallâ€and mediumâ€scale field sites. <i>Earth Surface Processes and Landforms</i> , 2013, 38, 810-825.	1.2	20
28	One century of hydrological monitoring in two small catchments with different forest coverage. <i>Environmental Monitoring and Assessment</i> , 2011, 174, 91-106.	1.3	18
29	Evaluating methods for debris-flow prediction based on rainfall in an Alpine catchment. <i>Natural Hazards and Earth System Sciences</i> , 2021, 21, 2773-2789.	1.5	18
30	Influence of solar forcing, climate variability and modes of low-frequency atmospheric variability on summer floods in Switzerland. <i>Hydrology and Earth System Sciences</i> , 2015, 19, 3807-3827.	1.9	17
31	Influence of storm damage on the runoff generation in two sub-catchments of the Sperbelgraben, Swiss Emmental. <i>European Journal of Forest Research</i> , 2006, 125, 27-41.	1.1	14
32	Inertial drag and lift forces for coarse grains on rough alluvial beds measured using in-grain accelerometers. <i>Earth Surface Dynamics</i> , 2020, 8, 1067-1099.	1.0	14
33	Calculation of bedload transport in Swiss mountain rivers using the model sedFlow: proof of concept. <i>Earth Surface Dynamics</i> , 2015, 3, 35-54.	1.0	10
34	Hydrological Drivers of Bedload Transport in an Alpine Watershed. <i>Water Resources Research</i> , 2022, 58, .	1.7	9
35	Large wood potential, piece characteristics, and flood effects in Swiss mountain streams. <i>Physical Geography</i> , 0, , 1-23.	0.6	8
36	Signal response of the Swiss plate geophone monitoring system impacted by bedload particles with different transport modes. <i>Earth Surface Dynamics</i> , 2022, 10, 279-300.	1.0	2