

Jan-Thomas Fischer

List of Publications by Year in descending order

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29
papers

1,065
citations

516710

16
h-index

526287

27
g-index

51
all docs

51
docs citations

51
times ranked

796
citing authors

#	ARTICLE	IF	CITATIONS
1	r.avaflow v1, an advanced open-source computational framework for the propagation and interaction of two-phase mass flows. <i>Geoscientific Model Development</i> , 2017, 10, 553-569.	3.6	215
2	How well can we simulate complex hydro-geomorphic process chains? The 2012 multi-lake outburst flood in the Santa Cruz Valley (Cordillera Blanca, Peru). <i>Earth Surface Processes and Landforms</i> , 2018, 43, 1373-1389.	2.5	103
3	Topographic curvature effects in applied avalanche modeling. <i>Cold Regions Science and Technology</i> , 2012, 74-75, 21-30.	3.5	84
4	Interaction of two-phase debris flow with obstacles. <i>Engineering Geology</i> , 2018, 242, 197-217.	6.3	80
5	Computational experiments on the 1962 and 1970 landslide events at Huascarán (Peru) with r.avaflow: Lessons learned for predictive mass flow simulations. <i>Geomorphology</i> , 2018, 322, 15-28.	2.6	78
6	Reconstruction of the 1941 GLOF process chain at Lake Palcacocha (Cordillera Blanca, Peru). <i>Hydrology and Earth System Sciences</i> , 2020, 24, 93-114.	4.9	76
7	A mechanical erosion model for two-phase mass flows. <i>International Journal of Multiphase Flow</i> , 2020, 132, 103416.	3.4	47
8	A mechanical model for phase separation in debris flow. <i>International Journal of Multiphase Flow</i> , 2020, 129, 103292.	3.4	44
9	Multivariate parameter optimization for computational snow avalanche simulation. <i>Journal of Glaciology</i> , 2015, 61, 875-888.	2.2	41
10	Dynamic response of submarine obstacles to two-phase landslide and tsunami impact on reservoirs. <i>Acta Mechanica</i> , 2019, 230, 3143-3169.	2.1	38
11	Computational snow avalanche simulation in forested terrain. <i>Natural Hazards and Earth System Sciences</i> , 2014, 14, 2233-2248.	3.6	36
12	A novel approach to evaluate and compare computational snow avalanche simulation. <i>Natural Hazards and Earth System Sciences</i> , 2013, 13, 1655-1667.	3.6	26
13	Gravitational wet avalanche pressure on pylon-like structures. <i>Cold Regions Science and Technology</i> , 2016, 126, 66-75.	3.5	21
14	Evolution of stony debris flows in laboratory experiments. <i>Geomorphology</i> , 2021, 372, 107431.	2.6	21
15	Cold-to-warm flow regime transition in snow avalanches. <i>Cryosphere</i> , 2018, 12, 3759-3774.	3.9	20
16	Determining forest parameters for avalanche simulation using remote sensing data. <i>Cold Regions Science and Technology</i> , 2020, 172, 102976.	3.5	20
17	Evaluation of probabilistic snow avalanche simulation ensembles with Doppler radar observations. <i>Cold Regions Science and Technology</i> , 2014, 97, 151-158.	3.5	18
18	Deposition morphology in large-scale laboratory stony debris flows. <i>Geomorphology</i> , 2022, 396, 107992.	2.6	14

#	ARTICLE	IF	CITATIONS
19	Modeling of unsaturated granular flows by a two-layer approach. <i>Acta Geotechnica</i> , 2017, 12, 677-701.	5.7	12
20	The Heat of the Flow: Thermal Equilibrium in Gravitational Mass Flows. <i>Geophysical Research Letters</i> , 2018, 45, 11,219.	4.0	12
21	Bayesian Inference in Snow Avalanche Simulation with <i>r.avaflow</i> . <i>Geosciences (Switzerland)</i> , 2020, 10, 191.	2.2	11
22	Snow avalanche friction relation based on extended kinetic theory. <i>Natural Hazards and Earth System Sciences</i> , 2016, 16, 2325-2345.	3.6	10
23	Flow-Py v1.0: a customizable, open-source simulation tool to estimate runout and intensity of gravitational mass flows. <i>Geoscientific Model Development</i> , 2022, 15, 2423-2439.	3.6	9
24	A mechanically-based model of snow slab and weak layer fracture in the Propagation Saw Test. <i>International Journal of Solids and Structures</i> , 2019, 158, 1-20.	2.7	6
25	Retarding avalanches in motion with net structures. <i>Cold Regions Science and Technology</i> , 2014, 97, 159-169.	3.5	4
26	The Historic Avalanche that Destroyed the Village of <i>Àrreu</i> in 1803, Catalan Pyrenees. <i>Geosciences (Switzerland)</i> , 2020, 10, 169.	2.2	4
27	Investigation of a mmWave-Radar-Based Sensor for Snow-Suspension Density Measurements. <i>IEEE Sensors Journal</i> , 2016, 16, 8861-8862.	4.7	2
28	mGEODAR – A Mobile Radar System for Detection and Monitoring of Gravitational Mass-Movements. <i>Sensors</i> , 2020, 20, 6373.	3.8	1
29	Process Chain Modelling with <i>r.avaflow</i> : Lessons Learned for Multi-hazard Analysis. , 2017, , 565-572.		1