Jan-Thomas Fischer

List of Publications by Year
in descending order

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	Deposition morphology in large-scale laboratory stony debris flows. Geomorphology, 2022, 396, 107992.	2.6	14
2	Flow-Py v1.0: a customizable, open-source simulation tool to estimate runout and intensity of gravitational mass flows. Geoscientific Model Development, 2022, 15, 2423-2439.	3.6	9
3	Evolution of stony debris flows in laboratory experiments. Geomorphology, 2021, 372, 107431.	2.6	21
4	mGEODARâ€"A Mobile Radar System for Detection and Monitoring of Gravitational Mass-Movements. Sensors, 2020, 20, 6373.	3.8	1
5	A mechanical erosion model for two-phase mass flows. International Journal of Multiphase Flow, 2020, 132, 103416.	3.4	47
6	The Historic Avalanche that Destroyed the Village of Ã€rreu in 1803, Catalan Pyrenees. Geosciences (Switzerland), 2020, 10, 169.	2.2	4
7	Bayesian Inference in Snow Avalanche Simulation with r.avaflow. Geosciences (Switzerland), 2020, 10, 191.	2.2	11
8	A mechanical model for phase separation in debris flow. International Journal of Multiphase Flow, 2020, 129, 103292.	3.4	44
9	Reconstruction of the 1941ÂGLOF process chain at Lake Palcacocha (Cordillera Blanca, Peru). Hydrology and Earth System Sciences, 2020, 24, 93-114.	4.9	76
10	Determining forest parameters for avalanche simulation using remote sensing data. Cold Regions Science and Technology, 2020, 172, 102976.	3.5	20
11	Dynamic response of submarine obstacles to two-phase landslide and tsunami impact on reservoirs. Acta Mechanica, 2019, 230, 3143-3169.	2.1	38
12	A mechanically-based model of snow slab and weak layer fracture in the Propagation Saw Test. International Journal of Solids and Structures, 2019, 158, 1-20.	2.7	6
13	How well can we simulate complex hydroâ€geomorphic process chains? The 2012 multiâ€lake outburst flood in the Santa Cruz Valley (Cordillera Blanca, PerÃº). Earth Surface Processes and Landforms, 2018, 43, 1373-1389.	2.5	103
14	Cold-to-warm flow regime transition in snow avalanches. Cryosphere, 2018, 12, 3759-3774.	3.9	20
15	The Heat of the Flow: Thermal Equilibrium in Gravitational Mass Flows. Geophysical Research Letters, 2018, 45, 11,219.	4.0	12
16	Computational experiments on the 1962 and 1970 landslide events at HuascarÃ¡n (Peru) with r.avaflow: Lessons learned for predictive mass flow simulations. Geomorphology, 2018, 322, 15-28.	2.6	78
17	Interaction of two-phase debris flow with obstacles. Engineering Geology, 2018, 242, 197-217.	6.3	80
18	Modeling of unsaturated granular flows by a two-layer approach. Acta Geotechnica, 2017, 12, 677-701.	5.7	12

#	Article	IF	Citations
19	r.avaflow v1, an advanced open-source computational framework for the propagation and interaction of two-phase mass flows. Geoscientific Model Development, 2017, 10, 553-569.	3.6	215
20	Process Chain Modelling with r.avaflow: Lessons Learned for Multi-hazard Analysis. , 2017, , 565-572.		1
21	Snow avalanche friction relation based on extended kinetic theory. Natural Hazards and Earth System Sciences, 2016, 16, 2325-2345.	3.6	10
22	Investigation of a mmWave-Radar-Based Sensor for Snow-Suspension Density Measurements. IEEE Sensors Journal, 2016, 16, 8861-8862.	4.7	2
23	Gravitational wet avalanche pressure on pylon-like structures. Cold Regions Science and Technology, 2016, 126, 66-75.	3.5	21
24	Multivariate parameter optimization for computational snow avalanche simulation. Journal of Glaciology, 2015, 61, 875-888.	2.2	41
25	Computational snow avalanche simulation in forested terrain. Natural Hazards and Earth System Sciences, 2014, 14, 2233-2248.	3.6	36
26	Evaluation of probabilistic snow avalanche simulation ensembles with Doppler radar observations. Cold Regions Science and Technology, 2014, 97, 151-158.	3.5	18
27	Retarding avalanches in motion with net structures. Cold Regions Science and Technology, 2014, 97, 159-169.	3.5	4
28	A novel approach to evaluate and compare computational snow avalanche simulation. Natural Hazards and Earth System Sciences, 2013, 13, 1655-1667.	3.6	26
29	Topographic curvature effects in applied avalanche modeling. Cold Regions Science and Technology, 2012, 74-75, 21-30.	3.5	84