

Roland Kaitna

List of Publications by Year in descending order

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34
papers

1,047
citations

471061

17
h-index

414034

32
g-index

50
all docs

50
docs citations

50
times ranked

953
citing authors

#	ARTICLE	IF	CITATIONS
1	Stress anisotropy in natural debris flows during impacting a monitoring structure. <i>Landslides</i> , 2022, 19, 211-220.	2.7	7
2	Variable hydrograph inputs for a numerical debris-flow runout model. <i>Natural Hazards and Earth System Sciences</i> , 2022, 22, 1627-1654.	1.5	8
3	Monitoring Debris-Flow Surges and Triggering Rainfall at the Lattenbach Creek, Austria. <i>Environmental and Engineering Geoscience</i> , 2021, 27, 213-220.	0.3	11
4	Future changes in annual, seasonal and monthly runoff signatures in contrasting Alpine catchments in Austria. <i>Hydrology and Earth System Sciences</i> , 2021, 25, 3429-3453.	1.9	16
5	Measurements of Velocity Profiles in Natural Debris Flows: A View behind the Muddy Curtain. <i>Environmental and Engineering Geoscience</i> , 2021, 27, 87-94.	0.3	2
6	Velocity profiles and basal stresses in natural debris flows. <i>Earth Surface Processes and Landforms</i> , 2020, 45, 1764-1776.	1.2	43
7	Trigger characteristics of torrential flows from high to low alpine regions in Austria. <i>Science of the Total Environment</i> , 2019, 658, 958-972.	3.9	20
8	Forschungsbauwerk zur Untersuchung von Murgängen und deren Einwirkung auf Schutzbauwerke. <i>Ce/Papers</i> , 2019, 3, 161-165.	0.1	1
9	The Heat of the Flow: Thermal Equilibrium in Gravitational Mass Flows. <i>Geophysical Research Letters</i> , 2018, 45, 11,219.	1.5	12
10	The Value of Using Multiple Hydrometeorological Variables to Predict Temporal Debris Flow Susceptibility in an Alpine Environment. <i>Water Resources Research</i> , 2018, 54, 6822-6843.	1.7	31
11	The temporally varying roles of rainfall, snowmelt and soil moisture for debris flow initiation in a snow-dominated system. <i>Hydrology and Earth System Sciences</i> , 2018, 22, 3493-3513.	1.9	45
12	Evaluation concepts to compare observed and simulated deposition areas of mass movements. <i>Computational Geosciences</i> , 2017, 21, 335-343.	1.2	12
13	Debris-flow risk analysis in a managed torrent based on a stochastic life-cycle performance. <i>Science of the Total Environment</i> , 2016, 557-558, 142-153.	3.9	35
14	Evaluation of Model Parameterization Through Laboratory Investigations. <i>International Journal of Erosion Control Engineering</i> , 2016, 9, 130-134.	0.5	0
15	Effects of coarse grain size distribution and fine particle content on pore fluid pressure and shear behavior in experimental debris flows. <i>Journal of Geophysical Research F: Earth Surface</i> , 2016, 121, 415-441.	1.0	97
16	Granular-front formation in free-surface flow of concentrated suspensions. <i>Physical Review E</i> , 2015, 92, 052204.	0.8	38
17	Modeling debris-flow runout patterns on two alpine fans with different dynamic simulation models. <i>Natural Hazards and Earth System Sciences</i> , 2015, 15, 1483-1492.	1.5	54
18	Numerical Simulation of Shallow Grain-Fluid Flows in a Rotating Drum. , 2015, , 1663-1666.		0

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19	Debris-flow activity in five adjacent gullies in a limestone mountain range. <i>Geochronometria</i> , 2015, 42, .	0.2	20
20	Viscous Effects on Granular Mixtures in a Rotating Drum. Springer Series in Geomechanics and Geoengineering, 2015, , 57-71.	0.0	1
21	Surface slopes, velocity profiles and fluid pressure in coarse-grained debris flows saturated with water and mud. <i>Journal of Fluid Mechanics</i> , 2014, 741, 377-403.	1.4	45
22	Analysing Debris-Flow Impact Models, Based on a Small Scale Modelling Approach. <i>Surveys in Geophysics</i> , 2013, 34, 121-140.	2.1	141
23	Estimation of debris flood magnitudes based on dendrogeomorphic data and semi-empirical relationships. <i>Geomorphology</i> , 2013, 201, 80-85.	1.1	12
24	Susceptibility and Triggers for Debris Flows: Emergence, Loading, Release and Entrainment. <i>Advances in Global Change Research</i> , 2013, , 33-49.	1.6	3
25	Occurrence conditions of roll waves for three grainâ€œfluid models and comparison with results from experiments and field observation. <i>Geophysical Journal International</i> , 2013, 195, 1464-1480.	1.0	25
26	Silent Witnesses for Torrential Processes. <i>Advances in Global Change Research</i> , 2013, , 111-130.	1.6	7
27	Frictional behavior of granular gravelâ€œice mixtures in vertically rotating drum experiments and implications for rockâ€œice avalanches. <i>Cold Regions Science and Technology</i> , 2011, 69, 70-90.	1.6	55
28	Physical and numerical modelling of a bedload deposition area for an Alpine torrent. <i>Natural Hazards and Earth System Sciences</i> , 2011, 11, 1589-1597.	1.5	22
29	Unraveling driving factors for large rockâ€œice avalanche mobility. <i>Earth Surface Processes and Landforms</i> , 2011, 36, 1948-1966.	1.2	117
30	The Application of the Risk Concept to Debris Flow Hazards. <i>Geomechanik Und Tunnelbau</i> , 2008, 1, 120-129.	0.2	31
31	AbschÃ¤tzung einer Anprallkraft fÃ¼r murenexponierte Massivbauwerke. <i>Bautechnik</i> , 2008, 85, 803-811.	0.2	14
32	A new experimental facility for laboratory debris flow investigation. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2007, 45, 797-810.	0.7	27
33	Experimental study on rheologic behaviour of debris flow material. <i>Acta Geotechnica</i> , 2007, 2, 71-85.	2.9	85
34	Comparative rheologic investigations in a vertically rotating flume and a â€œmoving-bedâ€œconveyor belt flume. <i>WIT Transactions on Ecology and the Environment</i> , 2006, , .	0.0	4