

Simon Loew

List of Publications by Year in descending order

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Version: 2024-02-01

69
papers

2,430
citations

147566

31
h-index

223531

46
g-index

94
all docs

94
docs citations

94
times ranked

1980
citing authors

#	ARTICLE	IF	CITATIONS
1	Multi-disciplinary characterizations of the BedrettoLab – a new underground geoscience research facility. <i>Solid Earth</i> , 2022, 13, 301-322.	1.2	17
2	Hydro-Mechanical Interactions of a Rock Slope With a Retreating Temperate Valley Glacier. <i>Journal of Geophysical Research F: Earth Surface</i> , 2022, 127, .	1.0	5
3	A Global Perspective on Lunar Granular Flows. <i>Geophysical Research Letters</i> , 2022, 49, .	1.5	6
4	Recharge response and kinematics of an unusual earthflow in Liechtenstein. <i>Landslides</i> , 2021, 18, 2383-2401.	2.7	5
5	A new strategy to map landslides with a generalized convolutional neural network. <i>Scientific Reports</i> , 2021, 11, 9722.	1.6	51
6	Digital image correlation-based analysis of hygroscopic expansion in Herrnholz granite. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2021, 146, 104859.	2.6	15
7	Global Drivers and Transport Mechanisms of Lunar Rockfalls. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2021JE006824.	1.5	8
8	Rock Slope Temperature Evolution and Micrometer-Scale Deformation at a Retreating Glacier Margin. <i>Journal of Geophysical Research F: Earth Surface</i> , 2021, 126, e2021JF006195.	1.0	2
9	Robotic Total Station Monitoring in High Alpine Paraglacial Environments: Challenges and Solutions from the Great Aletsch Region (Valais, Switzerland). <i>Geosciences (Switzerland)</i> , 2021, 11, 471.	1.0	4
10	Controls on Spatial and Temporal Patterns of Slope Deformation in an Alpine Valley. <i>Journal of Geophysical Research F: Earth Surface</i> , 2021, 126, e2021JF006353.	1.0	4
11	Paraglacial history and structure of the Moosfluh Landslide (1850–2016), Switzerland. <i>Geomorphology</i> , 2020, 355, 106677.	1.1	24
12	Hydraulic stimulation and fluid circulation experiments in underground laboratories: Stepping up the scale towards engineered geothermal systems. <i>Geomechanics for Energy and the Environment</i> , 2020, 24, 100175.	1.2	55
13	Monitoring and analysis of active rockslide-glacier interactions (Moosfluh, Switzerland). <i>Geomorphology</i> , 2020, 371, 107414.	1.1	21
14	Hydromechanical Rock Slope Damage During Late Pleistocene and Holocene Glacial Cycles in an Alpine Valley. <i>Journal of Geophysical Research F: Earth Surface</i> , 2020, 125, e2019JF005494.	1.0	18
15	Regional-Scale Investigation of Preconditioning Factors of Rock Slope Instabilities in NW Bhutan. <i>Journal of Geophysical Research F: Earth Surface</i> , 2020, 125, e2019JF005404.	1.0	3
16	The Punatsangchhu-I dam landslide illuminated by InSAR multitemporal analyses. <i>Scientific Reports</i> , 2020, 10, 8304.	1.6	13
17	Deep Learning-Driven Detection and Mapping of Rockfalls on Mars. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2020, 13, 2831-2841.	2.3	26
18	Integrated multi-temporal analysis of the displacement behaviour and morphology of a deep-seated compound landslide (Cerentino, Switzerland). <i>Engineering Geology</i> , 2020, 270, 105577.	2.9	8

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19	Understanding Failure and Runout Mechanisms of the Flims Rockslide/Rock Avalanche. <i>Frontiers in Earth Science</i> , 2020, 8, .	0.8	6
20	Impacts drive lunar rockfalls over billions of years. <i>Nature Communications</i> , 2020, 11, 2862.	5.8	36
21	Mapping Landslides on EO Data: Performance of Deep Learning Models vs. Traditional Machine Learning Models. <i>Remote Sensing</i> , 2020, 12, 346.	1.8	134
22	Changing Flow Paths Caused by Simultaneous Shearing and Fracturing Observed During Hydraulic Stimulation. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL086135.	1.5	8
23	Borehole monitoring of thermo-hydro-mechanical rock slope processes adjacent to an actively retreating glacier. <i>Geomorphology</i> , 2020, 362, 107190.	1.1	18
24	Tracking Fluid Flow in Shallow Crustal Fault Zones: 1. Insights From Single-Hole Permeability Estimates. <i>Journal of Geophysical Research: Solid Earth</i> , 2020, 125, e2019JB018200.	1.4	18
25	Tracking Fluid Flow in Shallow Crustal Fault Zones: 2. Insights From Cross-Hole Forced Flow Experiments in Damage Zones. <i>Journal of Geophysical Research: Solid Earth</i> , 2020, 125, e2019JB019108.	1.4	12
26	Hydromechanical processes and their influence on the stimulation effected volume: observations from a decameter-scale hydraulic stimulation project. <i>Solid Earth</i> , 2020, 11, 1699-1729.	1.2	16
27	From Toppling to Sliding: Progressive Evolution of the Moosfluh Landslide, Switzerland. <i>Journal of Geophysical Research F: Earth Surface</i> , 2019, 124, 2899-2919.	1.0	44
28	Long-term transient groundwater pressure and deep infiltration in Alpine mountain slopes (Poschiavo) Tj ETQq0 0 0 rgBT /Overlock 10 T	0.9	7
29	Classification of slope processes based on multitemporal DInSAR analyses in the Himalaya of NW Bhutan. <i>Remote Sensing of Environment</i> , 2019, 233, 111408.	4.6	33
30	Investigation of slope instabilities in NW Bhutan as derived from systematic DInSAR analyses. <i>Engineering Geology</i> , 2019, 259, 105111.	2.9	28
31	Multi-stage structural and kinematic analysis of a retrogressive rock slope instability complex (Preonzo, Switzerland). <i>Engineering Geology</i> , 2019, 252, 27-42.	2.9	26
32	Automated Detection of Lunar Rockfalls Using a Convolutional Neural Network. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2019, 57, 3501-3511.	2.7	23
33	Improved Characterization of Groundwater Flow in Heterogeneous Aquifers Using Granular Polyacrylamide (PAM) Gel as Temporary Grout. <i>Water Resources Research</i> , 2018, 54, 1410-1419.	1.7	15
34	Thermomechanical Stresses Drive Damage of Alpine Valley Rock Walls During Repeat Glacial Cycles. <i>Journal of Geophysical Research F: Earth Surface</i> , 2018, 123, 2620-2646.	1.0	56
35	Fracture Network Characterization Using Stress-Based Tomography. <i>Journal of Geophysical Research: Solid Earth</i> , 2018, 123, 9324-9340.	1.4	21
36	The seismo-hydromechanical behavior during deep geothermal reservoir stimulations: open questions tackled in a decameter-scale in situ stimulation experiment. <i>Solid Earth</i> , 2018, 9, 115-137.	1.2	126

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37	Monitoring Surface Deformation over a Failing Rock Slope with the ESA Sentinels: Insights from Moosfluh Instability, Swiss Alps. <i>Remote Sensing</i> , 2018, 10, 672.	1.8	44
38	Comprehensive geological dataset describing a crystalline rock mass for hydraulic stimulation experiments. <i>Scientific Data</i> , 2018, 5, 180269.	2.4	37
39	Monitoring and early warning of the 2012 Preonzo catastrophic rockslope failure. <i>Landslides</i> , 2017, 14, 141-154.	2.7	96
40	Beyond debuttressing: Mechanics of paraglacial rock slope damage during repeat glacial cycles. <i>Journal of Geophysical Research F: Earth Surface</i> , 2017, 122, 1004-1036.	1.0	124
41	A new global database to improve predictions of permeability distribution in crystalline rocks at site scale. <i>Journal of Geophysical Research: Solid Earth</i> , 2017, 122, 3513-3539.	1.4	66
42	Factors controlling the permeability distribution in fault vein zones surrounding granitic intrusions (Ore Mountains/Germany). <i>Journal of Geophysical Research: Solid Earth</i> , 2017, 122, 1876-1899.	1.4	21
43	3D fluid flow in fault zones of crystalline basement rocks (Poehlaâ€Tellerhaeuser Ore Field, Ore) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 5	0.3	17
44	Detailed hydrogeological analysis of a deep-seated rockslide at the Gepatsch reservoir (Klasgarten,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	0.9	18
45	Rock Bridge Failure Caused by the AysÃ“n 2007 Earthquake (Patagonia, Chile). , 2015, , 775-780.		2
46	Subglacial extensional fracture development and implications for Alpine Valley evolution. <i>Journal of Geophysical Research F: Earth Surface</i> , 2014, 119, 62-81.	1.0	78
47	In situ stress control on microcrack generation and macroscopic extensional fracture in exhuming bedrock. <i>Journal of Geophysical Research: Solid Earth</i> , 2014, 119, 594-615.	1.4	60
48	Growth of exfoliation joints and near-surface stress orientations inferred from fractographic markings observed in the upper Aar valley (Swiss Alps). <i>Tectonophysics</i> , 2014, 626, 1-20.	0.9	31
49	Hydraulic subsurface measurements and hydrodynamic modelling as indicators for groundwater flow systems in the Rotondo granite, Central Alps (Switzerland). <i>Hydrological Processes</i> , 2014, 28, 255-278.	1.1	12
50	Quantitative hydraulic analysis of pre-drillings and inflows to the Gotthard Base Tunnel (Sedrun Lot,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	2.9	25
51	Distribution and inferred age of exfoliation joints in the Aar Granite of the central Swiss Alps and relationship to Quaternary landscape evolution. <i>Geomorphology</i> , 2013, 201, 344-362.	1.1	40
52	Reversible rock-slope deformations caused by cyclic water-table fluctuations in mountain slopes of the Central Alps, Switzerland. <i>Hydrogeology Journal</i> , 2012, 20, 73-91.	0.9	23
53	Thermomechanical forcing of deep rock slope deformation: 1. Conceptual study of a simplified slope. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	51
54	Thermomechanical forcing of deep rock slope deformation: 2. The Randa rock slope instability. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	46

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55	Late Alpine brittle faulting in the Rotondo granite (Switzerland): deformation mechanisms and fault evolution. <i>Swiss Journal of Geosciences</i> , 2011, 104, 31-54.	0.5	15
56	Composite rock slope kinematics at the current Randa instability, Switzerland, based on remote sensing and numerical modeling. <i>Engineering Geology</i> , 2011, 118, 37-53.	2.9	78
57	Air circulation in deep fractures and the temperature field of an alpine rock slope. <i>Earth Surface Processes and Landforms</i> , 2011, 36, 1985-1996.	1.2	35
58	Hydraulic conductivity distribution in crystalline rocks, derived from inflows to tunnels and galleries in the Central Alps, Switzerland. <i>Hydrogeology Journal</i> , 2010, 18, 863-891.	0.9	76
59	Hazard assessment and runout analysis for an unstable rock slope above an industrial site in the Riviera valley, Switzerland. <i>Landslides</i> , 2009, 6, 111-119.	2.7	27
60	Normal stiffness of fractures in granitic rock: A compilation of laboratory and in-situ experiments. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2008, 45, 1500-1507.	2.6	65
61	Internal structure and deformation of an unstable crystalline rock mass above Randa (Switzerland): Part I – Internal structure from integrated geological and geophysical investigations. <i>Engineering Geology</i> , 2008, 101, 1-14.	2.9	59
62	Internal structure and deformation of an unstable crystalline rock mass above Randa (Switzerland): Part II – Three-dimensional deformation patterns. <i>Engineering Geology</i> , 2008, 101, 15-32.	2.9	48
63	Consolidation settlements above deep tunnels in fractured crystalline rock: Part 1 – Investigations above the Gotthard highway tunnel. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2008, 45, 1195-1210.	2.6	33
64	Consolidation settlements above deep tunnels in fractured crystalline rock: Part 2 – Numerical analysis of the Gotthard highway tunnel case study. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2008, 45, 1211-1225.	2.6	33
65	Long-term investigation of a deep-seated creeping landslide in crystalline rock. Part I. Geological and hydromechanical factors controlling the Campo Vallemaggia landslide. <i>Canadian Geotechnical Journal</i> , 2007, 44, 1157-1180.	1.4	73
66	Characterizing flow zones in a fractured and karstified limestone aquifer through integrated interpretation of geophysical and hydraulic data. <i>Hydrogeology Journal</i> , 2007, 15, 225-240.	0.9	12
67	Recharge areas and geochemical evolution of groundwater in an alluvial aquifer system in the Sultanate of Oman. <i>Hydrogeology Journal</i> , 2006, 14, 203-224.	0.9	59
68	Ground settlements above tunnels in fractured crystalline rock: numerical analysis of coupled hydromechanical mechanisms. <i>Hydrogeology Journal</i> , 2003, 11, 162-173.	0.9	63
69	Geomechanical Properties of Shear Zones in the Eastern Aar Massif, Switzerland and their Implication on Tunnelling. <i>Rock Mechanics and Rock Engineering</i> , 2003, 36, 271-303.	2.6	31