

# Michel Jaboyedoff

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/5468024/michel-jaboyedoff-publications-by-citations.pdf>

**Version:** 2024-04-29

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

191  
papers

5,809  
citations

39  
h-index

69  
g-index

263  
ext. papers

6,951  
ext. citations

4.1  
avg, IF

5.93  
L-index

#	Paper	IF	Citations
191	Use of LIDAR in landslide investigations: a review. <i>Natural Hazards</i> , <b>2012</b> , 61, 5-28	3	587
190	Rockfall characterisation and structural protection: a review. <i>Natural Hazards and Earth System Sciences</i> , <b>2011</b> , 11, 2617-2651	3.9	240
189	Detection of millimetric deformation using a terrestrial laser scanner: experiment and application to a rockfall event. <i>Natural Hazards and Earth System Sciences</i> , <b>2009</b> , 9, 365-372	3.9	236
188	Terrestrial laser scanning of rock slope instabilities. <i>Earth Surface Processes and Landforms</i> , <b>2014</b> , 39, 80-97	3.7	193
187	Characterization and monitoring of the Fines rockslide using terrestrial laser scanning. <i>Natural Hazards and Earth System Sciences</i> , <b>2009</b> , 9, 1003-1019	3.9	167
186	A new approach for semi-automatic rock mass joints recognition from 3D point clouds. <i>Computers and Geosciences</i> , <b>2014</b> , 68, 38-52	4.5	157
185	Collapse at the eastern Eiger flank in the Swiss Alps. <i>Nature Geoscience</i> , <b>2008</b> , 1, 531-535	18.3	154
184	Machine Learning Feature Selection Methods for Landslide Susceptibility Mapping. <i>Mathematical Geosciences</i> , <b>2014</b> , 46, 33-57	2.5	148
183	Flow-R, a model for susceptibility mapping of debris flows and other gravitational hazards at a regional scale. <i>Natural Hazards and Earth System Sciences</i> , <b>2013</b> , 13, 869-885	3.9	111
182	Structural analysis of Turtle Mountain (Alberta) using digital elevation model: Toward a progressive failure. <i>Geomorphology</i> , <b>2009</b> , 103, 5-16	4.3	111
181	Ambient seismic noise monitoring of a clay landslide: Toward failure prediction. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117, n/a-n/a		109
180	An attempt to refine rockfall hazard zoning based on the kinetic energy, frequency and fragmentation degree. <i>Natural Hazards and Earth System Sciences</i> , <b>2005</b> , 5, 621-632	3.9	102
179	Rockfall hazard and risk assessments along roads at a regional scale: example in Swiss Alps. <i>Natural Hazards and Earth System Sciences</i> , <b>2012</b> , 12, 615-629	3.9	88
178	Quantifying sediment storage in a high alpine valley (Turtmanntal, Switzerland). <i>Earth Surface Processes and Landforms</i> , <b>2009</b> , 34, 1726-1742	3.7	86
177	Fragmentation energy in rock avalanches. <i>Canadian Geotechnical Journal</i> , <b>2006</b> , 43, 830-851	3.2	83
176	Sediment budget monitoring of debris-flow and bedload transport in the Manival Torrent, SE France. <i>Natural Hazards and Earth System Sciences</i> , <b>2012</b> , 12, 731-749	3.9	81
175	Technical Note: Preliminary estimation of rockfall runout zones. <i>Natural Hazards and Earth System Sciences</i> , <b>2011</b> , 11, 819-828	3.9	81

174	Kinematics of the 1991 Randa rockslides (Valais, Switzerland). <i>Natural Hazards and Earth System Sciences</i> , <b>2003</b> , 3, 423-433	3.9	80
173	Low number of fixed somatic mutations in a long-lived oak tree. <i>Nature Plants</i> , <b>2017</b> , 3, 926-929	11.5	74
172	Identification of potential rockfall source areas at a regional scale using a DEM-based geomorphometric analysis. <i>Natural Hazards and Earth System Sciences</i> , <b>2009</b> , 9, 1643-1653	3.9	72
171	Experiences from site-specific landslide early warning systems. <i>Natural Hazards and Earth System Sciences</i> , <b>2013</b> , 13, 2659-2673	3.9	71
170	Assessment of debris-flow susceptibility at medium-scale in the Barcelonnette Basin, France. <i>Natural Hazards and Earth System Sciences</i> , <b>2011</b> , 11, 627-641	3.9	70
169	Laser scanning-based recognition of rotational movements on a deep seated gravitational instability: The Cinque Torri case (North-Eastern Italian Alps). <i>Geomorphology</i> , <b>2010</b> , 122, 191-204	4.3	63
168	Spatio-temporal analysis of rockfall pre-failure deformation using Terrestrial LiDAR. <i>Landslides</i> , <b>2014</b> , 11, 697-709	6.6	57
167	New insight techniques to analyze rock-slope relief using DEM and 3D-imaging cloud points <b>2007</b> , 61-68		56
166	Rockfall hazard mapping along a mountainous road in Switzerland using a GIS-based parameter rating approach. <i>Natural Hazards and Earth System Sciences</i> , <b>2003</b> , 3, 435-442	3.9	54
165	Influence of meteorological factors on rockfall occurrence in a 'middle' mountain limestone cliff. <i>Natural Hazards and Earth System Sciences</i> , <b>2016</b> , 16, 719-735	3.9	54
164	A 4D Filtering and Calibration Technique for Small-Scale Point Cloud Change Detection with a Terrestrial Laser Scanner. <i>Remote Sensing</i> , <b>2015</b> , 7, 13029-13052	5	53
163	Preface "LIDAR and DEM techniques for landslides monitoring and characterization"; <i>Natural Hazards and Earth System Sciences</i> , <b>2010</b> , 10, 1877-1879	3.9	51
162	Major influencing factors of indoor radon concentrations in Switzerland. <i>Journal of Environmental Radioactivity</i> , <b>2014</b> , 129, 7-22	2.4	50
161	Debris flow hazard modelling on medium scale: Valtellina di Tirano, Italy. <i>Natural Hazards and Earth System Sciences</i> , <b>2010</b> , 10, 2379-2390	3.9	50
160	Three-dimensional slope stability analysis of South Peak, Crowsnest Pass, Alberta, Canada. <i>Landslides</i> , <b>2011</b> , 8, 139-158	6.6	48
159	Automated terrestrial laser scanning with near-real-time change detection [monitoring of the SÈhlienne landslide. <i>Earth Surface Dynamics</i> , <b>2017</b> , 5, 293-310	3.8	46
158	Use of terrestrial laser scanning for the characterization of retrogressive landslides in sensitive clay and rotational landslides in river banks. <i>Canadian Geotechnical Journal</i> , <b>2009</b> , 46, 1379-1390	3.2	46
157	Back calculation of the 2017 Piz CengaloBondo landslide cascade with r.avaflow: what we can do and what we can learn. <i>Natural Hazards and Earth System Sciences</i> , <b>2020</b> , 20, 505-520	3.9	43

156	Landslide detection and monitoring capability of boat-based mobile laser scanning along Dieppe coastal cliffs, Normandy. <i>Landslides</i> , <b>2015</b> , 12, 403-418	6.6	43
155	Channel scour and fill by debris flows and bedload transport. <i>Geomorphology</i> , <b>2015</b> , 243, 92-105	4.3	41
154	Correction of terrestrial LiDAR intensity channel using OreNlayar reflectance model: An application to lithological differentiation. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , <b>2016</b> , 113, 17-29	11.8	41
153	An introductory review on gravitational-deformation induced structures, fabrics and modeling. <i>Tectonophysics</i> , <b>2013</b> , 605, 1-12	3.1	39
152	A case study of coping strategies and landslides in two villages of Central-Eastern Nepal. <i>Applied Geography</i> , <b>2012</b> , 32, 680-690	4.4	39
151	Stability analysis of the 2007 Chehalis lake landslide based on long-range terrestrial photogrammetry and airborne LiDAR data. <i>Landslides</i> , <b>2012</b> , 9, 75-91	6.6	39
150	Design of a geodetic database and associated tools for monitoring rock-slope movements: the example of the top of Randa rockfall scar. <i>Natural Hazards and Earth System Sciences</i> , <b>2004</b> , 4, 187-196	3.9	37
149	Detailed DEM analysis of a rockslide scar to characterize the basal sliding surface of active rockslides. <i>Journal of Geophysical Research</i> , <b>2011</b> , 116,		35
148	The effect of weathering on Alpine rock instability. <i>Quarterly Journal of Engineering Geology and Hydrogeology</i> , <b>2004</b> , 37, 95-103	1.4	34
147	Structural characterization of Turtle Mountain anticline (Alberta, Canada) and impact on rock slope failure. <i>Tectonophysics</i> , <b>2013</b> , 605, 133-148	3.1	33
146	Preliminary assessment of rockslide and rockfall hazards using a DEM (Oppstadhornet, Norway). <i>Natural Hazards and Earth System Sciences</i> , <b>2005</b> , 5, 285-292	3.9	32
145	Spatial relationship between the atmospheric circulation and the precipitation measured in the western Swiss Alps by means of the analogue method. <i>Natural Hazards and Earth System Sciences</i> , <b>2012</b> , 12, 777-784	3.9	31
144	A review of methods used to estimate initial landslide failure surface depths and volumes. <i>Engineering Geology</i> , <b>2020</b> , 267, 105478	6	31
143	From deep seated slope deformation to rock avalanche: Destabilization and transportation models of the Sierre landslide (Switzerland). <i>Tectonophysics</i> , <b>2013</b> , 605, 149-168	3.1	30
142	Analyzing complex rock slope deformation at Stampa, western Norway, by integrating geomorphology, kinematics and numerical modeling. <i>Engineering Geology</i> , <b>2013</b> , 154, 116-130	6	30
141	Illite Crystallinity Revisited. <i>Clays and Clay Minerals</i> , <b>2001</b> , 49, 156-167	2.1	30
140	SHIA_Landslide: a distributed conceptual and physically based model to forecast the temporal and spatial occurrence of shallow landslides triggered by rainfall in tropical and mountainous basins. <i>Landslides</i> , <b>2016</b> , 13, 497-517	6.6	29
139	Spatial pattern of landslides in Swiss Rhone Valley. <i>Natural Hazards</i> , <b>2014</b> , 73, 97-110	3	29

138	Characterisation and spatial distribution of gravitational slope deformation in the Upper Rhone catchment (Western Swiss Alps). <i>Landslides</i> , <b>2016</b> , 13, 259-277	6.6	28
137	Detection of rock bridges by infrared thermal imaging and modeling. <i>Scientific Reports</i> , <b>2019</b> , 9, 13138	4.9	28
136	Control of landslide retrogression by discontinuities: evidence by the integration of airborne- and ground-based geophysical information. <i>Landslides</i> , <b>2013</b> , 10, 37-54	6.6	28
135	Assessing rockfall susceptibility in steep and overhanging slopes using three-dimensional analysis of failure mechanisms. <i>Landslides</i> , <b>2018</b> , 15, 859-878	6.6	28
134	Opportunities, incentives and challenges to risk sensitive land use planning: Lessons from Nepal, Spain and Vietnam. <i>International Journal of Disaster Risk Reduction</i> , <b>2015</b> , 14, 205-224	4.5	27
133	Analyses of past and present rock slope instabilities in a fjord valley: Implications for hazard estimations. <i>Geomorphology</i> , <b>2015</b> , 248, 464-474	4.3	27
132	Size Distribution for Potentially Unstable Rock Masses and In Situ Rock Blocks Using LIDAR-Generated Digital Elevation Models. <i>Rock Mechanics and Rock Engineering</i> , <b>2015</b> , 48, 1589-1604	5.7	27
131	Assessing fracture occurrence using “weighted fracturing density”: a step towards estimating rock instability hazard. <i>Natural Hazards and Earth System Sciences</i> , <b>2004</b> , 4, 83-93	3.9	27
130	Dating incipient metamorphism using <sup>40</sup> Ar/ <sup>39</sup> Ar geochronology and XRD modeling: a case study from the Swiss Alps. <i>Contributions To Mineralogy and Petrology</i> , <b>1999</b> , 135, 93-113	3.5	27
129	Rheological properties of clayey soils originating from flow-like landslides. <i>Landslides</i> , <b>2018</b> , 15, 1615-1630	6.6	26
128	New data on low-grade metamorphism in the Briançonnais domain of the Prealps, Western Switzerland. <i>European Journal of Mineralogy</i> , <b>1996</b> , 8, 577-592	2.2	25
127	Multi-scale debris flow vulnerability assessment and direct loss estimation of buildings in the Eastern Italian Alps. <i>Natural Hazards</i> , <b>2017</b> , 85, 929-957	3	24
126	Combining digital elevation model analysis and run-out modeling to characterize hazard posed by a potentially unstable rock slope at Turtle Mountain, Alberta, Canada. <i>Engineering Geology</i> , <b>2012</b> , 128, 76-94	6	23
125	25 years of movement monitoring on South Peak, Turtle Mountain: understanding the hazard. <i>Canadian Geotechnical Journal</i> , <b>2009</b> , 46, 256-269	3.2	23
124	Operationalizing Resilience For disaster risk reduction in mountainous Nepal. <i>Disaster Prevention and Management</i> , <b>2013</b> , 22, 366-377	1.5	22
123	Global Optimization of an Analog Method by Means of Genetic Algorithms. <i>Monthly Weather Review</i> , <b>2017</b> , 145, 1275-1294	2.4	20
122	Using genetic algorithms to optimize the analogue method for precipitation prediction in the Swiss Alps. <i>Journal of Hydrology</i> , <b>2018</b> , 556, 1220-1231	6	20
121	Structural analysis of Turtle Mountain: origin and influence of fractures in the development of rock slope failures. <i>Geological Society Special Publication</i> , <b>2011</b> , 351, 163-183	1.7	20

120	Large slope deformations detection and monitoring along shores of the Potrerillos dam reservoir, Argentina, based on a small-baseline InSAR approach. <i>Landslides</i> , <b>2016</b> , 13, 451-465	6.6	19
119	Improved predictive mapping of indoor radon concentrations using ensemble regression trees based on automatic clustering of geological units. <i>Journal of Environmental Radioactivity</i> , <b>2015</b> , 147, 51-62	2.4	19
118	Predictive analysis and mapping of indoor radon concentrations in a complex environment using kernel estimation: an application to Switzerland. <i>Science of the Total Environment</i> , <b>2015</b> , 505, 137-48	10.2	19
117	Technical Note: Implementation of a geodatabase of published and unpublished data on the catastrophic Vaiont landslide. <i>Natural Hazards and Earth System Sciences</i> , <b>2010</b> , 10, 865-873	3.9	19
116	Illite crystallinity. <i>Comptes Rendus De L'Académie Des Sciences Earth &amp; Planetary Sciences Serie II, Sciences De La Terre Et Des Planètes</i> , <b>2000</b> , 331, 75-89		19
115	A collaborative (web-GIS) framework based on empirical data collected from three case studies in Europe for risk management of hydro-meteorological hazards. <i>International Journal of Disaster Risk Reduction</i> , <b>2016</b> , 15, 10-23	4.5	18
114	Evidence of rock slope breathing using ground-based InSAR. <i>Geomorphology</i> , <b>2017</b> , 289, 152-169	4.3	18
113	Complex landslide behaviour and structural control: a three-dimensional conceptual model of Ønes rockslide, Norway. <i>Geological Society Special Publication</i> , <b>2011</b> , 351, 147-161	1.7	18
112	Preliminary Slope Mass Movement Susceptibility Mapping Using DEM and LiDAR DEM <b>2012</b> , 109-170		18
111	Headwater sediment dynamics in a debris flow catchment constrained by high-resolution topographic surveys. <i>Earth Surface Dynamics</i> , <b>2016</b> , 4, 489-513	3.8	18
110	Erosion and channel change as factors of landslides and valley formation in Champlain Sea Clays: The Chacoura River, Quebec, Canada. <i>Geomorphology</i> , <b>2012</b> , 145-146, 12-18	4.3	17
109	Influence of bedrock structures on the spatial pattern of erosional landforms in small alpine catchments. <i>Earth Surface Processes and Landforms</i> , <b>2012</b> , 37, 1407-1423	3.7	17
108	Slope tectonics: a short introduction. <i>Geological Society Special Publication</i> , <b>2011</b> , 351, 1-10	1.7	17
107	Quantifying 40 years of rockfall activity in Yosemite Valley with historical Structure-from-Motion photogrammetry and terrestrial laser scanning. <i>Geomorphology</i> , <b>2020</b> , 356, 107069	4.3	16
106	Brief communication "Report on the impact of the 27 February 2010 earthquake (Chile, &lt;i>M</i>&lt;sub>w</sub> 8.8) on rockfalls in the Las Cuevas valley, Argentina". <i>Natural Hazards and Earth System Sciences</i> , <b>2010</b> , 10, 1989-1993	3.9	16
105	Geological layers detection and characterisation using high resolution 3D point clouds: example of a box-fold in the Swiss Jura Mountains. <i>European Journal of Remote Sensing</i> , <b>2015</b> , 48, 541-568	2.9	15
104	Mass movement characterization using a reflexion and refraction seismic survey with the sloping local base level concept. <i>Geomorphology</i> , <b>2010</b> , 116, 1-10	4.3	15
103	3-D models and structural analysis of rock avalanches: the study of the deformation process to better understand the propagation mechanism. <i>Earth Surface Dynamics</i> , <b>2016</b> , 4, 743-755	3.8	15

102	An interactive web-GIS tool for risk analysis: a case study in the Fella River basin, Italy. <i>Natural Hazards and Earth System Sciences</i> , <b>2016</b> , 16, 85-101	3.9	15
101	Human-Induced Landslides: Toward the analysis of anthropogenic changes of the slope environment <b>2016</b> , 217-232		15
100	Influence of environmental parameters on the seismic velocity changes in a clayey mudflow (Pont-Bourquin Landslide, Switzerland). <i>Engineering Geology</i> , <b>2018</b> , 245, 248-257	6	15
99	Potential rock fall source areas identification and rock fall propagation in the province of Potenza territory using an empirically distributed approach. <i>Landslides</i> , <b>2017</b> , 14, 1593-1602	6.6	14
98	Land use changes, landslides and roads in the Phewa Watershed, Western Nepal from 1979 to 2016. <i>Applied Geography</i> , <b>2018</b> , 94, 30-40	4.4	14
97	Prototype of a Web-based Participative Decision Support Platform in Natural Hazards and Risk Management. <i>ISPRS International Journal of Geo-Information</i> , <b>2015</b> , 4, 1201-1224	2.9	14
96	Regional deterministic characterization of fracture networks and its application to GIS-based rock fall risk assessment. <i>Engineering Geology</i> , <b>2007</b> , 94, 201-214	6	14
95	A multidisciplinary approach for the investigation of a rock spreading on an urban slope. <i>Landslides</i> , <b>2018</b> , 15, 199-217	6.6	14
94	From the source area to the deposit: Collapse, fragmentation, and propagation of the Frank Slide. <i>Bulletin of the Geological Society of America</i> , <b>2015</b> , B31243.1	3.9	13
93	An offline-online Web-GIS Android application for fast data acquisition of landslide hazard and risk. <i>Natural Hazards and Earth System Sciences</i> , <b>2017</b> , 17, 549-561	3.9	13
92	Analysis of past and future dam formation and failure in the Santa Cruz River (San Juan province, Argentina). <i>Geomorphology</i> , <b>2013</b> , 186, 28-38	4.3	13
91	The 2005 Pakistan Earthquake Revisited: Methods for Integrated Landslide Assessment. <i>Mountain Research and Development</i> , <b>2011</b> , 31, 112-121	1.4	13
90	Detection of seasonal cycles of erosion processes in a black marl gully from a time series of high-resolution digital elevation models (DEMs). <i>Earth Surface Dynamics</i> , <b>2016</b> , 4, 781-798	3.8	13
89	Natural hazard events affecting transportation networks in Switzerland from 2012 to 2016. <i>Natural Hazards and Earth System Sciences</i> , <b>2018</b> , 18, 2093-2109	3.9	12
88	Little Ice Age advance and retreat sediment budgets for an outlet glacier in western Norway. <i>Boreas</i> , <b>2010</b> , 39, 551	2.4	12
87	Debris flows as a factor of hillslope evolution controlled by a continuous or a pulse process?. <i>Geological Society Special Publication</i> , <b>2008</b> , 296, 63-78	1.7	12
86	Brief communication "Estimating rockfall frequency in a mountain limestone cliff using terrestrial laser scanner"		12
85	Automatic Rockfalls Volume Estimation Based on Terrestrial Laser Scanning Data <b>2015</b> , 425-428		12

84	Recent evolution of an ice-cored moraine at the Gentiannes Pass, Valais Alps, Switzerland. <i>Land Degradation and Development</i> , <b>2018</b> , 29, 3693-3708	4.4	11
83	Influence of structural heterogeneities and of large scale topography on imbricate gravitational rock slope failures: New insights from 3-D physical modeling and geomorphological analysis. <i>Tectonophysics</i> , <b>2012</b> , 526-529, 147-156	3.1	11
82	Passive radio-frequency identification ranging, a dense and weather-robust technique for landslide displacement monitoring. <i>Engineering Geology</i> , <b>2019</b> , 250, 1-10	6	11
81	Impacts of fracturing patterns on the rockfall susceptibility and erosion rate of stratified limestone. <i>Geomorphology</i> , <b>2015</b> , 241, 83-97	4.3	10
80	Use of targets to track 3D displacements in highly vegetated areas affected by landslides. <i>Landslides</i> , <b>2016</b> , 13, 821-831	6.6	10
79	Brief communication: 3-D reconstruction of a collapsed rock pillar from Web-retrieved images and terrestrial lidar data [the 2005 event of the west face of the Drus (Mont Blanc massif)]. <i>Natural Hazards and Earth System Sciences</i> , <b>2017</b> , 17, 1207-1220	3.9	10
78	Geological mapping and fold modeling using Terrestrial Laser Scanning point clouds: application to the Dents-du-Midi limestone massif (Switzerland). <i>European Journal of Remote Sensing</i> , <b>2015</b> , 48, 569-591	2.9	10
77	The role of tectonic deformation on rock avalanche occurrence in the Pampeanas Ranges, Argentina. <i>Geomorphology</i> , <b>2017</b> , 289, 18-26	4.3	9
76	The analogue method for precipitation prediction: finding better analogue situations at a sub-daily time step. <i>Hydrology and Earth System Sciences</i> , <b>2017</b> , 21, 3307-3323	5.5	9
75	Toward preliminary hazard assessment using DEM topographic analysis and simple mechanical modeling by means of sloping local base level <b>2004</b> , 199-205		9
74	Testing a failure surface prediction and deposit reconstruction method for a landslide cluster that occurred during Typhoon Talas (Japan). <i>Earth Surface Dynamics</i> , <b>2019</b> , 7, 439-458	3.8	8
73	The First International Workshop on Warning Criteria for Active Slides: technical issues, problems and solutions for managing early warning systems. <i>Landslides</i> , <b>2015</b> , 12, 205-212	6.6	8
72	Rural earthen roads impact assessment in Phewa watershed, Western region, Nepal. <i>Geoenvironmental Disasters</i> , <b>2016</b> , 3,	3.6	8
71	Brief communication: On direct impact probability of landslides on vehicles. <i>Natural Hazards and Earth System Sciences</i> , <b>2016</b> , 16, 995-1004	3.9	7
70	A general analytical model for superelevation in landslide. <i>Landslides</i> , <b>2020</b> , 17, 1377-1392	6.6	7
69	Toward community predictions: Multi-scale modelling of mountain breeding birds' habitat suitability, landscape preferences, and environmental drivers. <i>Ecology and Evolution</i> , <b>2020</b> , 10, 5544-5557	2.8	7
68	Development of Monsoonal Rainfall Intensity-Duration-Frequency (IDF) Relationship and Empirical Model for Data-Scarce Situations: The Case of the Central-Western Hills (Panchase Region) of Nepal. <i>Hydrology</i> , <b>2018</b> , 5, 27	2.8	7
67	Impacts of Outmigration on Land Management in a Nepali Mountain Area <b>2017</b> , 177-194		7



66	The 2006 Eiger rockslide, European Alps 282-296		7
65	Dynamic risk simulation to assess natural hazards risk along roads. <i>Natural Hazards and Earth System Sciences</i> , <b>2013</b> , 13, 2763-2777	3.9	7
64	Stability Assessment, Potential Collapses and Future Evolution of the West Face of the Drus (3,754 m a.s.l., Mont Blanc Massif) <b>2015</b> , 791-795		7
63	A method to assess the probability of thickness and volume estimates of small and shallow initial landslide ruptures based on surface area. <i>Landslides</i> , <b>2020</b> , 17, 975-982	6.6	7
62	Using street view imagery for 3-D survey of rock slope failures. <i>Natural Hazards and Earth System Sciences</i> , <b>2017</b> , 17, 2093-2107	3.9	6
61	Towards a GIS-based rockfall hazard assessment along the Quebec City Promontory, Quebec, Canada <b>2004</b> , 207-213		6
60	The anatomy of an active slide: the Gascons rockslide, Québec, Canada. <i>Landslides</i> , <b>2016</b> , 13, 241-258	6.6	5
59	Cratering response during droplet impacts on granular beds. <i>European Physical Journal E</i> , <b>2019</b> , 42, 111	1.5	5
58	Landslide analysis using laser scanners. <i>Developments in Earth Surface Processes</i> , <b>2020</b> , 23, 207-230	2.8	5
57	Prototype of an open-source web-GIS platform for rapid disaster impact assessment. <i>Spatial Information Research</i> , <b>2016</b> , 24, 203-210	1.6	5
56	Chapter 7 Floods, Landslides, and Adapting to Climate Change in Nepal: What Role for Climate Change Models?. <i>Community, Environment and Disaster Risk Management</i> , <b>2012</b> , 119-140	0.2	5
55	Investigating Rock Fall Frequency and Failure Configurations Using Terrestrial Laser Scanner <b>2015</b> , 1919-1923		5
54	Remote thermal detection of exfoliation sheet deformation. <i>Landslides</i> , <b>2021</b> , 18, 865-879	6.6	5
53	Application of Ambient Vibration Techniques for Monitoring the Triggering of Rapid Landslides <b>2015</b> , 371-374		4
52	Quantification of casualties from potential rock-slope failures in Norway <b>2016</b> , 1537-1544		4
51	Introduction: Exploring Linkages Between Disaster Risk Reduction, Climate Change Adaptation, Migration and Sustainable Development <b>2017</b> , 1-11		4
50	Common problems encountered in 3D mapping of geological contacts using high-resolution terrain and image data. <i>European Journal of Remote Sensing</i> , <b>2015</b> , 48, 661-672	2.9	4
49	Ground-based and airborne LiDAR for structural mapping of the Frank Slide <b>2007</b> , 925-932		4

48	New insight of geomorphology and landslide prone area detection using digital elevation model(s) <b>2004</b> , 191-197		4
47	Definition and mapping of potential rockfall source and propagation areas at a regional scale in Basilicata region (Southern Italy). <i>Rendiconti Online Societa Geologica Italiana</i> , 41, 175-178		4
46	Velocity Prediction on Time-Variant Landslides Using Moving Response Functions: Application to La Barmasse Rockslide (Valais, Switzerland) <b>2015</b> , 323-327		4
45	Methods for Debris Flow Hazard and Risk Assessment. <i>Advances in Natural and Technological Hazards Research</i> , <b>2014</b> , 133-177	1.8	4
44	Characterization and management of rockslide hazard at Turtle Mountain, Alberta, Canada 310-322		4
43	Comparison of Remote Sensing Techniques for Geostructural Analysis and Cliff Monitoring in Coastal Areas of High Tourist Attraction: The Case Study of Polignano a Mare (Southern Italy). <i>Remote Sensing</i> , <b>2021</b> , 13, 5045	5	4
42	7.28 Numerical Modeling of Flows and Falls <b>2013</b> , 273-283		3
41	Erosion processes in black marl soils at the millimetre scale: preliminary insights from an analogous model. <i>Hydrology and Earth System Sciences</i> , <b>2015</b> , 19, 1849-1855	5.5	3
40	Shallow landslide's stochastic risk modelling based on the precipitation event of August 2005 in Switzerland: results and implications. <i>Natural Hazards and Earth System Sciences</i> , <b>2013</b> , 13, 3169-3184	3.9	3
39	Note on seismic hazard assessment using gradient of uplift velocities in the Turan block (Central Asia). <i>Natural Hazards and Earth System Sciences</i> , <b>2005</b> , 5, 43-47	3.9	3
38	Automated Terrestrial Laser Scanning with Near Real-Time Change Detection [Monitoring of the S�hilienne Landslide		3
37	Modeling current and future species distribution of breeding birds as regional essential biodiversity variables (SD EBVs): A bird perspective in Swiss Alps. <i>Global Ecology and Conservation</i> , <b>2021</b> , 27, e01596	2.8	3
36	An Offline-Online WebGIS Android Application for Fast Data Acquisition of Landslide Hazard and Risk <b>2016</b> ,		3
35	MATLAB Virtual Toolbox for Retrospective Rockfall Source Detection and Volume Estimation Using 3D Point Clouds: A Case Study of a Subalpine Molasse Cliff. <i>Geosciences (Switzerland)</i> , <b>2021</b> , 11, 75	2.7	3
34	Pros and Cons of Structure for Motion Embarked on a Vehicle to Survey Slopes along Transportation Lines Using 3D Georeferenced and Coloured Point Clouds. <i>Remote Sensing</i> , <b>2018</b> , 10, 1732	5	3
33	Predicting soil depth to bedrock in an anthropogenic landscape: a case study of Phewa Watershed in Panchase region of Central-Western Hills, Nepal <b>2019</b> , 55, 173-182		2
32	Assessment of the Potential Pollution of the Abidjan Unconfined Aquifer by Hydrocarbons. <i>Geosciences (Switzerland)</i> , <b>2019</b> , 9, 60	2.7	2
31	3-D models and structural analysis of analogue rock avalanche deposits: a kinematic analysis of the propagation mechanism		2

30	Detection of seasonal erosion processes at the scale of an elementary black marl gully from time series of Hi-Resolution DEMs		2
29	Quantitative spatial analysis of rockfalls from road inventories: a combined statistical and physical susceptibility model		2
28	A fast and efficient MATLAB-based MPM solver: fMPMM-solver v1.1. <i>Geoscientific Model Development</i> , <b>2020</b> , 13, 6265-6284	6.3	2
27	Slope Instability Detection Along the National 7 and the Potrerillos Dam Reservoir, Argentina, Using the Small-Baseline InSAR Technique <b>2015</b> , 295-299		2
26	Methods to Estimate the Surfaces Geometry and Uncertainty of Landslide Failure Surface <b>2015</b> , 339-343		2
25	Definitions and Concepts for Quantitative Rockfall Hazard and Risk Analysis. <i>Geosciences (Switzerland)</i> , <b>2021</b> , 11, 158	2.7	2
24	Optimizing Wireless Sensor Network Installations by Visibility Analysis on 3D Point Clouds. <i>ISPRS International Journal of Geo-Information</i> , <b>2019</b> , 8, 460	2.9	2
23	Remote Sensing and Monitoring Techniques for the Characterization of Rock Mass Deformation and Change Detection 39-65		2
22	Evaluation of InfraRed Thermography Supported by UAV and Field Surveys for Rock Mass Characterization in Complex Settings. <i>Geosciences (Switzerland)</i> , <b>2022</b> , 12, 116	2.7	2
21	Back-calculation of the 2017 Piz Cengalo-Bondo landslide cascade with r.avaflow <b>2019</b> ,		1
20	Learning risk management of geohazards in practice with free and open-source web-GIS based platform: RISKGIS <b>2017</b> ,		1
19	Introduction to Vertical Geology thematic issue. <i>European Journal of Remote Sensing</i> , <b>2015</b> , 48, 479-487	2.9	1
18	Saint-Venant Equations and Friction Law for Modelling Self-Channeling Granular Flows: From Analogue to Numerical Simulation. <i>Applied Mathematics</i> , <b>2015</b> , 06, 1161-1173	0.4	1
17	Technical Note: Erosion processes in black-marls at the millimetre scale, the input of an analogical model		1
16	Shallow landslides stochastic risk modelling based on the precipitation event of August 2005 in Switzerland: results and implications		1
15	An interactive web-GIS tool for risk analysis: a case study in the Fella River Basin, Italy		1
14	The three-stage rock failure dynamics of the Drus (Mont Blanc massif, France) since the June 2005 large event. <i>Scientific Reports</i> , <b>2020</b> , 10, 17330	4.9	1
13	An efficient two-layer landslide-tsunami numerical model: effects of momentum transfer validated with physical experiments of waves generated by granular landslides. <i>Natural Hazards and Earth System Sciences</i> , <b>2021</b> , 21, 1229-1245	3.9	1

12	Impact-Detection Algorithm That Uses Point Clouds as Topographic Inputs for 3D Rockfall Simulations. <i>Geosciences (Switzerland)</i> , <b>2021</b> , 11, 188	2.7	1
11	Airblasts caused by large slope collapses. <i>Bulletin of the Geological Society of America</i> , <b>2021</b> , 133, 939-948	3.9	1
10	A data-integration approach to correct sampling bias in species distribution models using multiple datasets of breeding birds in the Swiss Alps. <i>Ecological Informatics</i> , <b>2021</b> , 69, 101501	4.2	0
9	An explicit GPU-based material point method solver for elastoplastic problems (ep2-3De v1.0). <i>Geoscientific Model Development</i> , <b>2021</b> , 14, 7749-7774	6.3	0
8	Evaluation of an open-source collaborative web-GIS prototype in risk management with students. <i>Spatial Information Research</i> , <b>2016</b> , 24, 169-179	1.6	
7	Evaporite sinkhole risk for a building portfolio. <i>Environmental Earth Sciences</i> , <b>2017</b> , 76, 1	2.9	
6	Reply to the discussion by Olsen and Stuedlein on Use of terrestrial laser scanning for the characterization of retrogressive landslides in sensitive clay and rotational landslides in river banks. Appears in <i>Canadian Geotechnical Journal</i> , 47(10): 1164-1168. <i>Canadian Geotechnical Journal</i> , <b>2010</b> , 47, 1169-1173	3.2	
5	Quantification of casualties from potential rock-slope failures in Norway <b>2018</b> , 1537-1544		
4	Inventory of Rock Slope Deformations Affecting Folded Sedimentary Layers in Moderate Relief Context: The Case of the Livingstone Range Anticlinorium, AB, Canada <b>2015</b> , 599-604		
3	Conclusions: Linking Sustainable Development, Disaster Risk Reduction, Climate Change Adaptation, and Migration Policy Implications and Outlook <b>2017</b> , 267-275		
2	Introducing Uncertainty in Risk Calculation along Roads Using a Simple Stochastic Approach. <i>Geosciences (Switzerland)</i> , <b>2021</b> , 11, 143	2.7	
1	QDC-2D: A Semi-Automatic Tool for 2D Analysis of Discontinuities for Rock Mass Characterization. <i>Remote Sensing</i> , <b>2021</b> , 13, 5086	5	