

# Oldrich Hungr

## List of Publications by Year in descending order

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52  
papers

7,731  
citations

159585

30  
h-index

254184

43  
g-index

53  
all docs

53  
docs citations

53  
times ranked

4274  
citing authors

#	ARTICLE	IF	CITATIONS
1	The Varnes classification of landslide types, an update. <i>Landslides</i> , 2014, 11, 167-194.	5.4	2,018
2	A model for the runout analysis of rapid flow slides, debris flows, and avalanches. <i>Canadian Geotechnical Journal</i> , 1995, 32, 610-623.	2.8	889
3	A review of the classification of landslides of the flow type. <i>Environmental and Engineering Geoscience</i> , 2001, 7, 221-238.	0.9	858
4	A model for the analysis of rapid landslide motion across three-dimensional terrain. <i>Canadian Geotechnical Journal</i> , 2004, 41, 1084-1097.	2.8	480
5	Entrainment of debris in rock avalanches: An analysis of a long run-out mechanism. <i>Bulletin of the Geological Society of America</i> , 2004, 116, 1240.	3.3	429
6	Dynamic modelling of entrainment in rapid landslides. <i>Canadian Geotechnical Journal</i> , 2005, 42, 1437-1448.	2.8	322
7	Two numerical models for landslide dynamic analysis. <i>Computers and Geosciences</i> , 2009, 35, 978-992.	4.2	309
8	Evaluation of a three-dimensional method of slope stability analysis. <i>Canadian Geotechnical Journal</i> , 1989, 26, 679-686.	2.8	223
9	Complete dynamic modeling calibration for the Thurwieser rock avalanche (Italian Central Alps). <i>Engineering Geology</i> , 2008, 100, 11-26.	6.3	211
10	Large-scale brittle and ductile toppling of rock slopes. <i>Canadian Geotechnical Journal</i> , 2002, 39, 773-788.	2.8	153
11	Velocity and runout simulation of destructive debris flows and debris avalanches in pyroclastic deposits, Campania region, Italy. <i>Environmental Geology</i> , 2004, 45, 295-311.	1.2	145
12	Dynamics of the 1984 rock avalanche and associated distal debris flow on Mount Cayley, British Columbia, Canada; implications for landslide hazard assessment on dissected volcanoes. <i>Engineering Geology</i> , 2001, 61, 29-51.	6.3	138
13	Catastrophic detachment and high-velocity long-runout flow of Kolka Glacier, Caucasus Mountains, Russia in 2002. <i>Geomorphology</i> , 2009, 105, 314-321.	2.6	120
14	On the seismic response of deep-seated rock slope instabilities – Insights from numerical modeling. <i>Engineering Geology</i> , 2015, 193, 1-18.	6.3	112
15	Modelling rock avalanche propagation onto glaciers. <i>Quaternary Science Reviews</i> , 2012, 47, 23-40.	3.0	105
16	Estimating total resisting force in flexible barrier impacted by a granular avalanche using physical and numerical modeling. <i>Canadian Geotechnical Journal</i> , 2016, 53, 1700-1717.	2.8	100
17	Analysis of debris flow surges using the theory of uniformly progressive flow. <i>Earth Surface Processes and Landforms</i> , 2000, 25, 483-495.	2.5	97
18	A large rockslide – debris avalanche in cohesive soil at Pink Mountain, northeastern British Columbia, Canada. <i>Engineering Geology</i> , 2006, 83, 64-75.	6.3	73

#	ARTICLE	IF	CITATIONS
19	Simplified models of spreading flow of dry granular material. Canadian Geotechnical Journal, 2008, 45, 1156-1168.	2.8	73
20	Analysis of run-up of granular avalanches against steep, adverse slopes and protective barriers. Canadian Geotechnical Journal, 2010, 47, 827-841.	2.8	63
21	The Zymoetz River landslide, British Columbia, Canada: description and dynamic analysis of a rock slide – debris flow. Landslides, 2006, 3, 195-204.	5.4	61
22	Classification and terminology. , 2005, , 9-23.		60
23	Rockfall rebound: comparison of detailed field experiments and alternative modelling approaches. Earth Surface Processes and Landforms, 2012, 37, 656-665.	2.5	59
24	Late Holocene catastrophic slope collapse affected by deep-seated gravitational deformation in flysch: Ropice Mountain, Czech Republic. Geomorphology, 2009, 103, 414-429.	2.6	56
25	Numerical modeling of debris avalanche propagation from collapse of volcanic edifices. Landslides, 2012, 9, 315-334.	5.4	49
26	Morphological methods and dynamic modelling in landslide hazard assessment of the Campania Apennine carbonate slope. Landslides, 2008, 5, 59-70.	5.4	45
27	Contrasting failure behaviour of two large landslides in clay and silt. Canadian Geotechnical Journal, 2002, 39, 46-62.	2.8	37
28	Case Study: Oso, Washington, Landslide of March 22, 2014 – Material Properties and Failure Mechanism. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2017, 143, .	3.0	34
29	Dynamic simulation of the motion of partially-coherent landslides. Engineering Geology, 2016, 205, 1-11.	6.3	33
30	Dynamic analysis of an extraordinarily mobile rock avalanche in the Northwest Territories, Canada. Canadian Geotechnical Journal, 2016, 53, 899-908.	2.8	31
31	Initiation and propagation of the 2005 debris avalanche at Nocera Inferiore (southern Italy). Italian Journal of Geosciences, 2013, 132, 366-379.	0.8	30
32	From hot rocks to glowing avalanches: Numerical modelling of gravity-induced pyroclastic density currents and hazard maps at the Stromboli volcano (Italy). Geomorphology, 2016, 273, 93-106.	2.6	30
33	Numerical modelling of the motion of rapid, flow-like landslides for hazard assessment. KSCE Journal of Civil Engineering, 2009, 13, 281-287.	1.9	28
34	Dynamics of Rapid Landslides. , 2007, , 47-57.		28
35	Hazard assessment and runout analysis for an unstable rock slope above an industrial site in the Riviera valley, Switzerland. Landslides, 2009, 6, 111-119.	5.4	27
36	Run Out of Landslides – Continuum Mechanics versus Discontinuum Mechanics Models. Geomechanik Und Tunnelbau, 2008, 1, 358-366.	0.3	26

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37	Oso, Washington, Landslide of March 22, 2014: Dynamic Analysis. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2017, 143, 05017005.	3.0	24
38	Pierre3D: a 3D stochastic rockfall simulator based on random ground roughness and hyperbolic restitution factors. Canadian Geotechnical Journal, 2015, 52, 1360-1373.	2.8	23
39	The use of ballistic trajectory and granular flow models in predicting rockfall propagation. Earth Surface Processes and Landforms, 2013, 38, 435-440.	2.5	21
40	The role of initial coherence and path materials in the dynamics of three rock avalanche case histories. Geoenvironmental Disasters, 2017, 4, .	3.6	20
41	Stochastic analysis of rock fall dynamics on quarry slopes. International Journal of Rock Mechanics and Minings Sciences, 2015, 80, 57-66.	5.8	19
42	Numerical Modelling of the Dynamics of Debris Flows and Rock Avalanches. Geomechanik Und Tunnelbau, 2008, 1, 112-119.	0.3	15
43	A review of landslide hazard and risk assessment methodology. , 2016, , 3-27.		13
44	Theory and calibration of the Pierre 2 stochastic rock fall dynamics simulation program. Canadian Geotechnical Journal, 2017, 54, 18-30.	2.8	12
45	Developments in landslide runout prediction. , 2012, , 187-195.		5
46	Closure to "Case Study: Oso, Washington, Landslide of March 22, 2014" Material Properties and Failure Mechanism by Timothy D. Stark, Ahmed K. Baghdady, Oldrich Hungr, and Jordan Aaron. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2018, 144, 07018031.	3.0	4
47	A review of landslide hazard and risk assessment methodology. , 2018, , 3-27.		4
48	Slope Instabilities in High-Mountain Rock Walls. Recent Events on the Monte Rosa East Face (Macugnaga, NW Italy). , 2013, , 327-332.		3
49	Debris Flow. Encyclopedia of Earth Sciences Series, 2013, , 149-151.	0.1	2
50	Back Analysis of Johnsons Landing 2012 Landslide Using Two Dynamic Analysis Models. , 2015, , 1267-1270.		1
51	Numerical Simulation of Shallow Grain-Fluid Flows in a Rotating Drum. , 2015, , 1663-1666.		0
52	Runout Prediction of Rock Avalanches in Volcanic and Glacial Terrains. , 2013, , 285-291.		0