

Richard M Iverson

List of Publications by Year in Descending Order

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

55
papers

8,319
citations

33
h-index

55
g-index

55
ext. papers

9,294
ext. citations

5.9
avg, IF

6.67
L-index

#	Paper	IF	Citations
55	When hazard avoidance is not an option: lessons learned from monitoring the postdisaster Oso landslide, USA. <i>Landslides</i> , 2021 , 18, 2993-3009	6.6	2
54	Landslide Disparities, Flume Discoveries, and Oso Despair. <i>Perspectives of Earth and Space Scientists</i> , 2020 , 1, e2019CN000117	0.1	1
53	Measuring Basal Force Fluctuations of Debris Flows Using Seismic Recordings and Empirical Green's Functions. <i>Journal of Geophysical Research F: Earth Surface</i> , 2020 , 125, e2020JF005590	3.8	11
52	Basal Stress Equations for Granular Debris Masses on Smooth or Discretized Slopes. <i>Journal of Geophysical Research F: Earth Surface</i> , 2019 , 124, 1464-1484	3.8	4
51	Discussion of Bshallow Water Hydro-Sediment-Morphodynamic Equations for Fluvial Processes by Zhixian Cao, Chunchen Xia, Gareth Pender, and Qingquan Liu. <i>Journal of Hydraulic Engineering</i> , 2018 , 144, 07018009	1.8	
50	Comment on The reduction of friction in long-runout landslides as an emergent phenomenon by Brandon C. Johnson et al.. <i>Journal of Geophysical Research F: Earth Surface</i> , 2016 , 121, 2238-2242	3.8	8
49	Discussion of The relation between dilatancy, effective stress and dispersive pressure in granular avalanches by P. Bartelt and O. Buser (DOI: 10.1007/s11440-016-0463-7). <i>Acta Geotechnica</i> , 2016 , 11, 1465-1468	4.9	
48	Debris flow runup on vertical barriers and adverse slopes. <i>Journal of Geophysical Research F: Earth Surface</i> , 2016 , 121, 2333-2357	3.8	62
47	Lahars and Their Deposits 2015 , 649-664		40
46	Scaling and design of landslide and debris-flow experiments. <i>Geomorphology</i> , 2015 , 244, 9-20	4.3	157
45	Entrainment of bed material by Earth-surface mass flows: Review and reformulation of depth-integrated theory. <i>Reviews of Geophysics</i> , 2015 , 53, 27-58	23.1	153
44	Controls on the breach geometry and flood hydrograph during overtopping of noncohesive earthen dams. <i>Water Resources Research</i> , 2015 , 51, 6701-6724	5.4	29
43	Debris flows: behaviour and hazard assessment. <i>Geology Today</i> , 2014 , 30, 15-20	0.4	54
42	A depth-averaged debris-flow model that includes the effects of evolving dilatancy. I. Physical basis. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2014 , 470, 20130819	2.4	162
41	A depth-averaged debris-flow model that includes the effects of evolving dilatancy. II. Numerical predictions and experimental tests. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2014 , 470, 20130820	2.4	95
40	When Models Meet Managers: Examples from Geomorphology. <i>Geophysical Monograph Series</i> , 2013 , 27-40	1.1	7
39	You Want Me to Predict What?. <i>Geophysical Monograph Series</i> , 2013 , 41-50	1.1	3

38	How Should Mathematical Models of Geomorphic Processes be Judged?. <i>Geophysical Monograph Series</i> , 2013 , 83-94	1.1	8
37	Geomorphic Transport Laws for Predicting Landscape form and Dynamics. <i>Geophysical Monograph Series</i> , 2013 , 103-132	1.1	162
36	Elementary theory of bed-sediment entrainment by debris flows and avalanches. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		144
35	Positive feedback and momentum growth during debris-flow entrainment of wet bed sediment. <i>Nature Geoscience</i> , 2011 , 4, 116-121	18.3	326
34	The perfect debris flow? Aggregated results from 28 large-scale experiments. <i>Journal of Geophysical Research</i> , 2010 , 115,		249
33	Mount St. Helens: A 30-Year Legacy of Volcanism. <i>Eos</i> , 2010 , 91, 169-170	1.5	7
32	Effects of soil aggregates on debris-flow mobilization: Results from ring-shear experiments. <i>Engineering Geology</i> , 2010 , 114, 84-92	6	32
31	Steady and Intermittent Slipping in a Model of Landslide Motion Regulated by Pore-Pressure Feedback. <i>SIAM Journal on Applied Mathematics</i> , 2008 , 69, 769-786	1.8	23
30	Dynamics of seismogenic volcanic extrusion at Mount St Helens in 2004-05. <i>Nature</i> , 2006 , 444, 439-43	50.4	153
29	Regulation of landslide motion by dilatancy and pore pressure feedback. <i>Journal of Geophysical Research</i> , 2005 , 110,		150
28	Debris-flow mechanics 2005 , 105-134		43
27	Granular avalanches across irregular three-dimensional terrain: 2. Experimental tests. <i>Journal of Geophysical Research</i> , 2004 , 109,		105
26	Granular avalanches across irregular three-dimensional terrain: 1. Theory and computation. <i>Journal of Geophysical Research</i> , 2004 , 109,		162
25	Comment on Piezometric response in shallow bedrock at CB1: Implications for runoff generation and landsliding by David R. Montgomery, William E. Dietrich, and John T. Heffner. <i>Water Resources Research</i> , 2004 , 40,	5.4	4
24	New views of granular mass flows. <i>Geology</i> , 2001 , 29, 115	5	212
23	Distributed shear of subglacial till due to Coulomb slip. <i>Journal of Glaciology</i> , 2001 , 47, 481-488	3.4	96
22	Flow of variably fluidized granular masses across three-dimensional terrain: 2. Numerical predictions and experimental tests. <i>Journal of Geophysical Research</i> , 2001 , 106, 553-566		285
21	Flow of variably fluidized granular masses across three-dimensional terrain: 1. Coulomb mixture theory. <i>Journal of Geophysical Research</i> , 2001 , 106, 537-552		593

20	Landslide triggering by rain infiltration. <i>Water Resources Research</i> , 2000 , 36, 1897-1910	5.4	1103
19	Debris-flow deposition: Effects of pore-fluid pressure and friction concentrated at flow margins. <i>Bulletin of the Geological Society of America</i> , 1999 , 111, 1424-1434	3.9	242
18	Objective delineation of lahar-inundation hazard zones. <i>Bulletin of the Geological Society of America</i> , 1998 , 110, 972-984	3.9	295
17	Discussion and Closure: Slope Instability from Ground-Water Seepage. <i>Journal of Hydraulic Engineering</i> , 1997 , 123, 929-931	1.8	4
16	The physics of debris flows. <i>Reviews of Geophysics</i> , 1997 , 35, 245-296	23.1	1778
15	DEBRIS-FLOW MOBILIZATION FROM LANDSLIDES. <i>Annual Review of Earth and Planetary Sciences</i> , 1997 , 25, 85-138	15.3	575
14	Can magma-injection and groundwater forces cause massive landslides on Hawaiian volcanoes?. <i>Journal of Volcanology and Geothermal Research</i> , 1995 , 66, 295-308	2.8	114
13	Differential equations governing slip-induced pore-pressure fluctuations in a water-saturated granular medium. <i>Mathematical Geosciences</i> , 1993 , 25, 1027-1048		21
12	Gravity-driven groundwater flow and slope failure potential: 1. Elastic Effective-Stress Model. <i>Water Resources Research</i> , 1992 , 28, 925-938	5.4	88
11	Gravity-driven groundwater flow and slope failure potential: 2. Effects of slope morphology, material properties, and hydraulic heterogeneity. <i>Water Resources Research</i> , 1992 , 28, 939-950	5.4	90
10	Limiting equilibrium and liquefaction potential in infinite submarine slopes. <i>Marine Geotechnology</i> , 1990 , 9, 299-312		12
9	Rainfall, ground-water flow, and seasonal movement at Minor Creek landslide, northwestern California: Physical interpretation of empirical relations. <i>Bulletin of the Geological Society of America</i> , 1987 , 99, 579	3.9	150
8	Groundwater Seepage Vectors and the Potential for Hillslope Failure and Debris Flow Mobilization. <i>Water Resources Research</i> , 1986 , 22, 1543-1548	5.4	110
7	Unsteady, Nonuniform Landslide Motion: 2. Linearized Theory and the Kinematics of Transient Response. <i>Journal of Geology</i> , 1986 , 94, 349-364	2	21
6	Unsteady, Nonuniform Landslide Motion: 1. Theoretical Dynamics and the Steady Datum State. <i>Journal of Geology</i> , 1986 , 94, 1-15	2	34
5	A Constitutive Equation for Mass-Movement Behavior. <i>Journal of Geology</i> , 1985 , 93, 143-160	2	52
4	Accelerated Water Erosion in ORV-Use Areas 1983 , 81-96		7
3	Processes of accelerated pluvial erosion on desert hillslopes modified by vehicular traffic. <i>Earth Surface Processes</i> , 1980 , 5, 369-388		31

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| 2 | Video documentation of experiments at the USGS debris-flow flume 1992-2017. <i>US Geological Survey Open-File Report,</i> | 17 |
| 1 | Mobility statistics and automated hazard mapping for debris flows and rock avalanches. <i>USGS Scientific Investigations Report,</i> | 33 |