Richard M Iverson

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	The physics of debris flows. Reviews of Geophysics, 1997, 35, 245-296.	9.0	2,273
2	Landslide triggering by rain infiltration. Water Resources Research, 2000, 36, 1897-1910.	1.7	1,443
3	Flow of variably fluidized granular masses across three-dimensional terrain: 1. Coulomb mixture theory. Journal of Geophysical Research, 2001, 106, 537-552.	3.3	723
4	DEBRIS-FLOW MOBILIZATION FROM LANDSLIDES. Annual Review of Earth and Planetary Sciences, 1997, 25, 85-138.	4.6	680
5	Positive feedback and momentum growth during debris-flow entrainment of wet bed sediment. Nature Geoscience, 2011, 4, 116-121.	5.4	432
6	Objective delineation of lahar-inundation hazard zones. Bulletin of the Geological Society of America, 1998, 110, 972-984.	1.6	401
7	Flow of variably fluidized granular masses across three-dimensional terrain: 2. Numerical predictions and experimental tests. Journal of Geophysical Research, 2001, 106, 553-566.	3.3	338
8	The perfect debris flow? Aggregated results from 28 largeâ€scale experiments. Journal of Geophysical Research, 2010, 115, .	3.3	326
9	Debris-flow deposition: Effects of pore-fluid pressure and friction concentrated at flow margins. Bulletin of the Geological Society of America, 1999, 111, 1424-1434.	1.6	283
10	New views of granular mass flows. Geology, 2001, 29, 115.	2.0	255
11	Scaling and design of landslide and debris-flow experiments. Geomorphology, 2015, 244, 9-20.	1.1	249
12	Geomorphic Transport Laws for Predicting Landscape form and Dynamics. Geophysical Monograph Series, 0, , 103-132.	0.1	234
13	Entrainment of bed material by Earthâ€surface mass flows: Review and reformulation of depthâ€integrated theory. Reviews of Geophysics, 2015, 53, 27-58.	9.0	218
14	A depth-averaged debris-flow model that includes the effects of evolving dilatancy. I. Physical basis. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2014, 470, 20130819.	1.0	216
15	Regulation of landslide motion by dilatancy and pore pressure feedback. Journal of Geophysical Research, 2005, 110, .	3.3	198
16	Granular avalanches across irregular three-dimensional terrain: 1. Theory and computation. Journal of Geophysical Research, 2004, 109, .	3.3	196
17	Elementary theory of bedâ€sediment entrainment by debris flows and avalanches. Journal of Geophysical Research, 2012, 117,	3.3	196
18	Rainfall, ground-water flow, and seasonal movement at Minor Creek landslide, northwestern California: Physical interpretation of empirical relations. Bulletin of the Geological Society of America, 1987, 99, 579.	1.6	193

RICHARD M IVERSON

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19	Dynamics of seismogenic volcanic extrusion at Mount St Helens in 2004–05. Nature, 2006, 444, 439-443.	13.7	191
20	Groundwater Seepage Vectors and the Potential for Hillslope Failure and Debris Flow Mobilization. Water Resources Research, 1986, 22, 1543-1548.	1.7	141
21	Granular avalanches across irregular three-dimensional terrain: 2. Experimental tests. Journal of Geophysical Research, 2004, 109, .	3.3	133
22	Can magma-injection and groundwater forces cause massive landslides on Hawaiian volcanoes?. Journal of Volcanology and Geothermal Research, 1995, 66, 295-308.	0.8	130
23	Distributed shear of subglacial till due to Coulomb slip. Journal of Glaciology, 2001, 47, 481-488.	1.1	120
24	A depth-averaged debris-flow model that includes the effects of evolving dilatancy. II. Numerical predictions and experimental tests. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2014, 470, 20130820.	1.0	120
25	Gravity-driven groundwater flow and slope failure potential: 1. Elastic Effective-Stress Model. Water Resources Research, 1992, 28, 925-938.	1.7	105
26	Gravity-driven groundwater flow and slope failure potential: 2. Effects of slope morphology, material properties, and hydraulic heterogeneity. Water Resources Research, 1992, 28, 939-950.	1.7	104
27	Debris flow runup on vertical barriers and adverse slopes. Journal of Geophysical Research F: Earth Surface, 2016, 121, 2333-2357.	1.0	102
28	Debris flows: behaviour and hazard assessment. Geology Today, 2014, 30, 15-20.	0.3	71
29	Debris-flow mechanics. , 2005, , 105-134.		64
30	Lahars and Their Deposits. , 2015, , 649-664.		57
31	A Constitutive Equation for Mass-Movement Behavior. Journal of Geology, 1985, 93, 143-160.	0.7	55
32	Controls on the breach geometry and flood hydrograph during overtopping of noncohesive earthen dams. Water Resources Research, 2015, 51, 6701-6724.	1.7	50
33	Processes of accelerated pluvial erosion on desert hillslopes modified by vehicular traffic. Earth Surfaces Processes, 1980, 5, 369-388.	0.7	40
34	Effects of soil aggregates on debris-flow mobilization: Results from ring-shear experiments. Engineering Geology, 2010, 114, 84-92.	2.9	40
35	Unsteady, Nonuniform Landslide Motion: 1. Theoretical Dynamics and the Steady Datum State. Journal of Geology, 1986, 94, 1-15.	0.7	39
36	Steady and Intermittent Slipping in a Model of Landslide Motion Regulated by Pore-Pressure Feedback. SIAM Journal on Applied Mathematics, 2008, 69, 769-786.	0.8	28

RICHARD M IVERSON

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37	Measuring Basal Force Fluctuations of Debris Flows Using Seismic Recordings and Empirical Green's Functions. Journal of Geophysical Research F: Earth Surface, 2020, 125, e2020JF005590.	1.0	24
38	Unsteady, Nonuniform Landslide Motion: 2. Linearized Theory and the Kinematics of Transient Response. Journal of Geology, 1986, 94, 349-364.	0.7	23
39	Differential equations governing slip-induced pore-pressure fluctuations in a water-saturated granular medium. Mathematical Geosciences, 1993, 25, 1027-1048.	0.9	23
40	Limiting equilibrium and liquefaction potential in infinite submarine slopes. Marine Geotechnology, 1990, 9, 299-312.	0.2	15
41	Comment on "The reduction of friction in longâ€runout landslides as an emergent phenomenon―by Brandon C. Johnson et al Journal of Geophysical Research F: Earth Surface, 2016, 121, 2238-2242.	1.0	14
42	When Models Meet Managers: Examples from Geomorphology. Geophysical Monograph Series, 0, , 27-40.	0.1	12
43	How Should Mathematical Models of Geomorphic Processes be Judged?. Geophysical Monograph Series, 0, , 83-94.	0.1	12
44	Accelerated Water Erosion in ORV-Use Areas. Springer Series on Environmental Management, 1983, , 81-96.	0.3	11
45	Mount St. Helens: A 30‥ear Legacy of Volcanism. Eos, 2010, 91, 169-170.	0.1	9
46	Basal Stress Equations for Granular Debris Masses on Smooth or Discretized Slopes. Journal of Geophysical Research F: Earth Surface, 2019, 124, 1464-1484.	1.0	8
47	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. Water Resources Research, 2004, 40, .	1.7	5
48	Discussion and Closure: Slope Instability from Ground-Water Seepage. Journal of Hydraulic Engineering, 1997, 123, 929-931.	0.7	4
49	You Want Me to Predict What?. Geophysical Monograph Series, 0, , 41-50.	0.1	4
50	Landslide Disparities, Flume Discoveries, and Oso Despair. Perspectives of Earth and Space Scientists, 2020, 1, e2019CN000117.	0.2	3
51	When hazard avoidance is not an option: lessons learned from monitoring the postdisaster Oso landslide, USA. Landslides, 2021, 18, 2993-3009.	2.7	3
52	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). Acta Geotechnica, 2016, 11, 1465-1468.	2.9	0
53	Discussion of "Shallow Water Hydro-Sediment-Morphodynamic Equations for Fluvial Processes―by Zhixian Cao, Chunchen Xia, Gareth Pender, and Qingquan Liu. Journal of Hydraulic Engineering, 2018, 144, 07018009.	0.7	0