Jonathan W Godt

List of Publications by Year
in descending order

65 papers	7,643 citations	101543 36 h-index	128289 60 g-index
90 all docs	90 docs citations	90 times ranked	5312 citing authors

#	Article	IF	Citations
1	A closedâ€form equation for effective stress in unsaturated soil. Water Resources Research, 2010, 46, .	4.2	559
2	High-rate injection is associated with the increase in U.S. mid-continent seismicity. Science, 2015, 348, 1336-1340.	12.6	460
3	Positive feedback and momentum growth during debris-flow entrainment of wet bed sediment. Nature Geoscience, 2011, 4, 116-121.	12.9	432
4	Early warning of rainfall-induced shallow landslides and debris flows in the USA. Landslides, 2010, 7, 259-272.	5.4	427
5	Infinite slope stability under steady unsaturated seepage conditions. Water Resources Research, 2008, 44, .	4.2	318
6	Landslide mobility and hazards: implications of the 2014 Oso disaster. Earth and Planetary Science Letters, 2015, 412, 197-208.	4.4	302
7	The size, distribution, and mobility of landslides caused by the 2015 Mw7.8 Gorkha earthquake, Nepal. Geomorphology, 2018, 301, 121-138.	2.6	294
8	Estimating the timing and location of shallow rainfallâ€induced landslides using a model for transient, unsaturated infiltration. Journal of Geophysical Research, 2010, 115, .	3.3	268
9	New insights into debris-flow hazards from an extraordinary event in the Colorado Front Range. GSA Today, 2014, 24, 4-10.	2.0	260
10	Transient deterministic shallow landslide modeling: Requirements for susceptibility and hazard assessments in a GIS framework. Engineering Geology, 2008, 102, 214-226.	6.3	256
11	Initiation conditions for debris flows generated by runoff at Chalk Cliffs, central Colorado. Geomorphology, 2008, 96, 270-297.	2.6	231
12	Rainfall characteristics for shallow landsliding in Seattle, Washington, USA. Earth Surface Processes and Landforms, 2006, 31, 97-110.	2.5	218
13	Modeling regional initiation of rainfall-induced shallow landslides in the eastern Umbria Region of central Italy. Landslides, 2006, 3, 181-194.	5.4	208
14	Seasonal movement of the Slumgullion landslide determined from Global Positioning System surveys and field instrumentation, July 1998â€“March 2002. Engineering Geology, 2003, 68, 67-101.	6.3	203
15	Landsliding in partially saturated materials. Geophysical Research Letters, 2009, 36, .	4.0	175
16	Presentation and Analysis of a Worldwide Database of Earthquakeâ€induced Landslide Inventories. Journal of Geophysical Research F: Earth Surface, 2017, 122, 1991-2015.	2.8	170
17	Landslides Triggered by the 14 November 2016 MwÂ7.8 KaikÅura Earthquake, New Zealand. Bulletin of the Seismological Society of America, 2018, 108, 1630-1648.	2.3	149
18	Alpine debris flows triggered by a 28 July 1999 thunderstorm in the central Front Range, Colorado. Geomorphology, 2007, 84, 80-97.	2.6	140

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19	Hysteresis and Uncertainty in Soil Water-Retention Curve Parameters. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2014, 140, .	3.0	129
20	Improving predictive power of physically based rainfall-induced shallow landslide models: a probabilistic approach. Geoscientific Model Development, 2014, 7, 495-514.	3.6	127
21	Regional landslide-hazard assessment for Seattle, Washington, USA. Landslides, 2005, 2, 266-279.	5.4	106
22	Did the Zipingpu Reservoir trigger the 2008 Wenchuan earthquake?. Geophysical Research Letters, 2009, 36, .	4.0	99
23	Modeling landslide recurrence in Seattle, Washington, USA. Engineering Geology, 2008, 102, 227-237.	6.3	87
24	Analysis of rainfallâ€induced slope instability using a field of local factor of safety. Water Resources Research, 2012, 48, .	4.2	83
25	Coseismic landslides reveal near-surface rock strength in a high-relief, tectonically active setting. Geology, 2015, 43, 11-14.	4.4	81
26	Stability of infinite slopes under transient partially saturated seepage conditions. Water Resources Research, 2012, 48, .	4.2	64
27	Elucidating the role of vegetation in the initiation of rainfallâ€induced shallow landslides: Insights from an extreme rainfall event in the Colorado Front Range. Geophysical Research Letters, 2016, 43, 9084-9092.	4.0	62
28	Landslides across the USA: occurrence, susceptibility, and data limitations. Landslides, 2020, 17, 2271-2285.	5.4	55
29	Hysteresis of Unsaturated Hydromechanical Properties of a Silty Soil. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2013, 139, 507-510.	3.0	54
30	Application and evaluation of a rapid response earthquake-triggered landslide model to the 25 April 2015 Mw 7.8 Gorkha earthquake, Nepal. Tectonophysics, 2017, 714-715, 173-187.	2.2	53
31	Controls on the breach geometry and flood hydrograph during overtopping of noncohesive earthen dams. Water Resources Research, 2015, 51, 6701-6724.	4.2	50
32	Improving Nearâ€Realâ€Time Coseismic Landslide Models: Lessons Learned from the 2016 KaikÅura, New Zealand, Earthquake. Bulletin of the Seismological Society of America, 2018, 108, 1649-1664.	2.3	48
33	Basalâ€topographic control of stationary ponds on a continuously moving landslide. Earth Surface Processes and Landforms, 2009, 34, 264-279.	2.5	46
34	The influence of vegetation on debris-flow initiation during extreme rainfall in the northern Colorado Front Range. Geology, 2016, 44, 823-826.	4.4	41
35	Effect of Hydraulic Hysteresis on Stability of Infinite Slopes under Steady Infiltration. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2017, 143, .	3.0	40
36	Investigation and hazard assessment of the 2003 and 2007 Staircase Falls rock falls, Yosemite National Park, California, USA. Natural Hazards and Earth System Sciences, 2008, 8, 421-432.	3.6	39

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37	Landslides caused by the Mw7.8 KaikÅura earthquake and the immediate response. Bulletin of the New Zealand Society for Earthquake Engineering, 2017, 50, 106-116.	0.5	38
38	Interrelations among the Soil-Water Retention, Hydraulic Conductivity, and Suction-Stress Characteristic Curves. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2014, 140, .	3.0	31
39	Direction of unsaturated flow in a homogeneous and isotropic hillslope. Water Resources Research, 2011, 47, .	4.2	26
40	A prototype system for forecasting landslides in the Seattle, Washington, area. , 2008, , .		23
41	Modeling rainfall Conditions for Shallow landsliding in Seattle, Washington. , 2008, , .		23
42	Variability in soil-water retention properties and implications for physics-based simulation of landslide early warning criteria. Landslides, 2018, 15, 1265-1277.	5.4	23
43	Modeling the spatial distribution of landslideâ€prone colluvium and shallow groundwater on hillslopes of Seattle, WA. Earth Surface Processes and Landforms, 2008, 33, 123-141.	2.5	22
44	Application of a process-based shallow landslide hazard model over a broad area in Central Italy. Landslides, 2016, 13, 1197-1214.	5.4	21
45	Geomorphological control on variably saturated hillslope hydrology and slope instability. Water Resources Research, 2016, 52, 4590-4607.	4.2	18
46	Modified Direct Shear Apparatus for Unsaturated Sands at Low Suction and Stress. Geotechnical Testing Journal, 2010, 33, 286-298.	1.0	18
47	Numerical modeling of rainfall thresholds for shallow landsliding in the Seattle, Washington, area. , 2008, , .		15
48	Tropical Storm-Induced Landslide Potential Using Combined Field Monitoring and Numerical Modeling. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2018, 144, .	3.0	15
49	Ferguson rock slide buries California State Highway near Yosemite National Park. Landslides, 2008, 5, 331-337.	5.4	14
50	Experimental Test of Theory for the Stability of Partially Saturated Vertical Cut Slopes. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2014, 140, .	3.0	14
51	Strong variation in weathering of layered rock maintains hillslopeâ€scale strength under high precipitation. Earth Surface Processes and Landforms, 2018, 43, 1183-1194.	2.5	13
52	Bayesian analysis of the impact of rainfall data product on simulated slope failure for North Carolina locations. Computational Geosciences, 2019, 23, 495-522.	2.4	12
53	Field and Laboratory Hydraulic Characterization of Landslideâ€Prone Soils in the Oregon Coast Range and Implications for Hydrologic Simulation. Vadose Zone Journal, 2018, 17, 1-15.	2.2	11
54	Comparison of Soil Thickness in a Zero-Order Basin in the Oregon Coast Range Using a Soil Probe and Electrical Resistivity Tomography. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2012, 138, 1470-1482.	3.0	10

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55	Hydrological Behavior of an Infiltration-Induced Landslide in Colorado, USA. Geofluids, 2019, 2019, 1-14.	0.7	9
56	Drainage effects on the transient, near-surface hydrologic response of a steep hillslope to rainfall: implications for slope stability, Edmonds, Washington, USA. Natural Hazards and Earth System Sciences, 2006, 6, 343-355.	3.6	7
57	Principles for collaborative risk communication: Reducing landslide losses in Puerto Rico. Journal of Emergency Management, 2021, 19, 41-61.	0.3	7
58	Evaluation of techniques for mitigating snowmelt infiltration-induced landsliding in a highway embankment. Engineering Geology, 2021, 291, 106240.	6.3	6
59	When hazard avoidance is not an option: lessons learned from monitoring the postdisaster Oso landslide, USA. Landslides, 2021, 18, 2993-3009.	5.4	3
60	Evolution of Strain Localization in Variable-Width Three-Dimensional Unsaturated Laboratory-Scale Cut Slopes. Journal of Engineering Mechanics - ASCE, 2017, 143, .	2.9	2
61	Progress and Lessons Learned from Responses to Landslide Disasters. ICL Contribution To Landslide Disaster Risk Reduction, 2021, , 85-111.	0.3	2
62	Evaluating a Slope-Stability Model for Shallow Rain-Induced Landslides Using Gage and Satellite Data. , 2014, , 431-436.		1
63	Plenary: Progress in Regional Landslide Hazard Assessmentâ€"Examples from the USA. , 2014, , 21-36.		1
64	APPLICATION AND TESTING OF A COUPLED HYDROMECHANICAL MODEL OF HILLSLOPE HYDROLOGIC RESPONSE AND SLOPE STABILITY, MUKILTEO, WA. , 2016, , .		0
65	VARIABILITY IN SOIL-WATER RETENTION PROPERTIES AND IMPLICATIONS FOR PHYSICS-BASED SIMULATION OF LANDSLIDE EARLY WARNING CRITERIA. , 2017, , .		0