

W Andy Take

List of Publications by Year in descending order

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Version: 2024-02-01

85
papers

3,756
citations

147566

31
h-index

133063

59
g-index

90
all docs

90
docs citations

90
times ranked

2277
citing authors

#	ARTICLE	IF	CITATIONS
1	Soil deformation measurement using particle image velocimetry (PIV) and photogrammetry. <i>Geotechnique</i> , 2003, 53, 619-631.	2.2	1,151
2	Evaluation of landslide triggering mechanisms in model fill slopes. <i>Landslides</i> , 2004, 1, 173-184.	2.7	171
3	Earth pressures on unyielding retaining walls of narrow backfill width. <i>Canadian Geotechnical Journal</i> , 2001, 38, 1220-1230.	1.4	127
4	Thirty-Sixth Canadian Geotechnical Colloquium: Advances in visualization of geotechnical processes through digital image correlation. <i>Canadian Geotechnical Journal</i> , 2015, 52, 1199-1220.	1.4	117
5	Experimental accuracy of two dimensional strain measurements using Digital Image Correlation. <i>Engineering Structures</i> , 2013, 46, 718-726.	2.6	102
6	Tensiometer saturation and the reliable measurement of soil suction. <i>Geotechnique</i> , 2003, 53, 159-172.	2.2	100
7	Distributed fibre optic sensing of strains on buried full-scale PVC pipelines crossing a normal fault. <i>Geotechnique</i> , 2018, 68, 1-17.	2.2	100
8	Response of pipelines of differing flexural stiffness to normal faulting. <i>Geotechnique</i> , 2016, 66, 275-286.	2.2	89
9	Water-Retention Behavior of Geosynthetic Clay Liners. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2011, 137, 1028-1038.	1.5	83
10	Crack initiation in clay observed in beam bending. <i>Geotechnique</i> , 2007, 57, 581-594.	2.2	72
11	Measurement of Matric Suction Using Tensiometric and Axis Translation Techniques. <i>Geotechnical and Geological Engineering</i> , 2008, 26, 615-631.	0.8	70
12	Measurement of vertical and longitudinal rail displacements using digital image correlation. <i>Canadian Geotechnical Journal</i> , 2015, 52, 141-155.	1.4	62
13	Quantifying geomembrane wrinkles using aerial photography and digital image processing. <i>Geosynthetics International</i> , 2007, 14, 219-227.	1.5	58
14	Erosional control of the kinematics and geometry of fold-and-thrust belts imaged in a physical and numerical sandbox. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	57
15	Tsunamis generated by long and thin granular landslides in a large flume. <i>Journal of Geophysical Research: Oceans</i> , 2017, 122, 653-668.	1.0	55
16	Numerical modeling of normal fault-pipeline interaction and comparison with centrifuge tests. <i>Soil Dynamics and Earthquake Engineering</i> , 2018, 105, 127-138.	1.9	54
17	Strain localisations in FRP-confined concrete: new insights. <i>Proceedings of the Institution of Civil Engineers: Structures and Buildings</i> , 2009, 162, 301-309.	0.4	47
18	Large-Scale Quantification of Wrinkles in a Smooth Black HDPE Geomembrane. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2012, 138, 671-679.	1.5	46

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19	On the transfer of momentum from a granular landslide to a water wave. Coastal Engineering, 2017, 125, 16-22.	1.7	45
20	Effect of antecedent groundwater conditions on the triggering of static liquefaction landslides. Landslides, 2015, 12, 469-479.	2.7	40
21	Catastrophic mass flows resulting from tailings impoundment failures. Engineering Geology, 2021, 292, 106262.	2.9	40
22	Base liquefaction: a mechanism for shear-induced failure of loose granular slopes. Canadian Geotechnical Journal, 2014, 51, 496-507.	1.4	38
23	Curvature Monitoring of Beams Using Digital Image Correlation. Journal of Bridge Engineering, 2014, 19, .	1.4	38
24	Observations of grain-scale interactions and simulation of dry granular flows in a large-scale flume. Canadian Geotechnical Journal, 2015, 52, 638-655.	1.4	38
25	Effect of GCL Properties on Shrinkage When Subjected to Wet-Dry Cycles. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2011, 137, 1019-1027.	1.5	36
26	Simulations of Landslide Wave Generation and Propagation Using the Particle Finite Element Method. Journal of Geophysical Research: Oceans, 2020, 125, e2019JC015873.	1.0	36
27	Optimum Accuracy of Two-Dimensional Strain Measurements Using Digital Image Correlation. Journal of Computing in Civil Engineering, 2012, 26, 795-803.	2.5	35
28	Measuring Crack Movement in Reinforced Concrete Using Digital Image Correlation: Overview and Application to Shear Slip Measurements. Proceedings of the IEEE, 2016, 104, 1561-1574.	16.4	34
29	A porous-matrix sensor to measure the matric potential of soil water in the field. European Journal of Soil Science, 2007, 58, 18-25.	1.8	32
30	Comparison of confined and unconfined infiltration in transparent porous media. Water Resources Research, 2013, 49, 851-863.	1.7	32
31	Field and laboratory observations of down-slope bentonite migration in exposed composite liners. Geotextiles and Geomembranes, 2016, 44, 686-706.	2.3	32
32	Performance assessment of peat rail subgrade before and after mass stabilization. Canadian Geotechnical Journal, 2017, 54, 674-689.	1.4	32
33	A simple displacement model for response analysis of EPS geofom seismic buffers. Soil Dynamics and Earthquake Engineering, 2007, 27, 344-353.	1.9	31
34	Measurement of distributed dynamic rail strains using a Rayleigh backscatter based fiber optic sensor: Lab and field evaluation. Transportation Geotechnics, 2018, 14, 70-80.	2.0	31
35	Correlation of acoustic emissions with patterns of movement in an extremely slow-moving landslide at Peace River, Alberta, Canada. Canadian Geotechnical Journal, 2018, 55, 1475-1488.	1.4	29
36	Thermal Expansion and Contraction of Geomembrane Liners Subjected to Solar Exposure and Backfilling. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2012, 138, 1387-1397.	1.5	27

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37	Factors affecting the down-slope erosion of bentonite in a GCL. <i>Geotextiles and Geomembranes</i> , 2014, 42, 445-456.	2.3	26
38	Effect of GCL Type on Downslope Erosion in an Exposed Composite Liner. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2016, 142, .	1.5	24
39	Numerical simulation of impulse wave generation by idealized landslides with OpenFOAM. <i>Coastal Engineering</i> , 2021, 165, 103815.	1.7	24
40	Time-dependent behaviour of the Bearpaw Shale in oedometric loading and unloading. <i>Canadian Geotechnical Journal</i> , 2012, 49, 427-441.	1.4	23
41	Three-dimensional ground displacements from static pipe bursting in stiff clay. <i>Canadian Geotechnical Journal</i> , 2010, 47, 439-450.	1.4	21
42	The runout of chalk cliff collapses in England and France—case studies and physical model experiments. <i>Landslides</i> , 2015, 12, 225-239.	2.7	18
43	Field monitoring of a bridge using digital image correlation. <i>Proceedings of the Institution of Civil Engineers: Bridge Engineering</i> , 2015, 168, 3-12.	0.3	18
44	Wave Generation Across a Continuum of Landslide Conditions From the Collapse of Partially Submerged to Fully Submerged Granular Columns. <i>Journal of Geophysical Research: Oceans</i> , 2020, 125, e2020JC016465.	1.0	18
45	Characterization of Transparent Soil for Unsaturated Applications. <i>Geotechnical Testing Journal</i> , 2011, 34, 445-456.	0.5	17
46	Quantification of Optical Clarity of Transparent Soil Using the Modulation Transfer Function. <i>Geotechnical Testing Journal</i> , 2015, 38, 20140216.	0.5	17
47	Validation of boundary PIV measurements of soil—pipe interaction. <i>International Journal of Physical Modelling in Geotechnics</i> , 2011, 11, 23-32.	0.5	16
48	Laboratory Simulation of Bentonite Erosion by Downslope Flow on a GCL. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2014, 140, .	1.5	16
49	Measurement of rail deflection on soft subgrades using DIC. <i>Proceedings of the Institution of Civil Engineers: Geotechnical Engineering</i> , 2016, 169, 383-398.	0.9	16
50	Full scale investigation of GCL damage mechanisms in small earth dam retrofit applications under earthquake loading. <i>Geotextiles and Geomembranes</i> , 2019, 47, 502-513.	2.3	16
51	Post-failure fracture angle of brittle pipes subjected to differential ground movements. <i>Tunnelling and Underground Space Technology</i> , 2015, 49, 114-120.	3.0	15
52	Laboratory Study of Downslope Erosion for 10 Different GCLs. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2015, 141, .	1.5	15
53	Geotechnical centrifuge modelling of retrogressive sensitive clay landslides. <i>Canadian Geotechnical Journal</i> , 2021, 58, 1452-1465.	1.4	15
54	Measuring displacements of a railroad bridge using DIC and accelerometers. <i>Smart Structures and Systems</i> , 2017, 19, 225-236.	1.9	15

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55	Tailings-flow runout analysis: examining the applicability of a semi-physical area-volume relationship using a novel database. <i>Natural Hazards and Earth System Sciences</i> , 2020, 20, 3425-3438.	1.5	15
56	Ground Displacements from a Pipe-Bursting Experiment in Well-Graded Sand and Gravel. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2009, 135, 1713-1721.	1.5	14
57	Experimental Test of Theory for the Stability of Partially Saturated Vertical Cut Slopes. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2014, 140, .	1.5	14
58	Effect of geomembrane colour and cover soil on solar-driven down-slope bentonite erosion from a GCL. <i>Geosynthetics International</i> , 2016, 23, 257-270.	1.5	14
59	Field measurements of overlap reductions for two reinforced fabric-encased geosynthetic clay liners (GCLs). <i>Canadian Geotechnical Journal</i> , 2018, 55, 631-639.	1.4	13
60	An Enhanced Framework to Quantify the Shape of Impulse Waves Using Asymmetry. <i>Journal of Geophysical Research: Oceans</i> , 2019, 124, 652-666.	1.0	13
61	Influence of slope inclination on the triggering and distal reach of hydraulically-induced flow slides. <i>Engineering Geology</i> , 2015, 187, 170-182.	2.9	12
62	Calculation of 3D displacement and time to failure of an earth dam using DIC analysis of hillshade images derived from high temporal resolution point cloud data. <i>Landslides</i> , 2020, 17, 499-515.	2.7	12
63	Loss of slope support due to base liquefaction: comparison of 1g and centrifuge landslide flume experiments. <i>Soils and Foundations</i> , 2016, 56, 251-264.	1.3	11
64	Field performance of a peat railway subgrade reinforced with helical screw piles. <i>Canadian Geotechnical Journal</i> , 2018, 55, 1888-1899.	1.4	10
65	A benchmarking study of four numerical runout models for the simulation of tailings flows. <i>Science of the Total Environment</i> , 2022, 827, 154245.	3.9	10
66	Reductions in GCL Overlap Beneath an Exposed Geomembrane. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2018, 144, 04018094.	1.5	9
67	Bridge transition monitoring: Interpretation of track defects using digital image correlation and distributed fiber optic strain sensing. <i>Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit</i> , 2020, 234, 616-637.	1.3	9
68	Stability of saturated granular columns: Role of stress-dilatancy and capillarity. <i>Physics of Fluids</i> , 2021, 33, .	1.6	9
69	Dynamic measurements using digital image correlation. <i>International Journal of Physical Modelling in Geotechnics</i> , 2017, 17, 41-52.	0.5	8
70	Comparison of Wrinkles in White and Black HDPE Geomembranes. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2017, 143, .	1.5	8
71	Discussion of "Accuracy of Digital Image Correlation for Measuring Deformations in Transparent Media" by Samer Sadek, Magued G. Iskander, and Jinyuan Liu. <i>Journal of Computing in Civil Engineering</i> , 2005, 19, 217-219.	2.5	7
72	A Case Study in Tensiometer interpretation: Centrifuge Modelling of Unsaturated Slope Behaviour. , 2006, , 2300.		7

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73	Effect of Upstream Dam Geometry on Peak Discharge During Overtopping Breach in Noncohesive Homogeneous Embankment Dams; Implications for Tailings Dams. <i>Water Resources Research</i> , 2021, 57, .	1.7	6
74	The influence of image analysis methodology on the calculation of granular temperature for granular flows. <i>Granular Matter</i> , 2021, 23, 1.	1.1	5
75	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> , 2021, 21, 1229-1245.	1.5	4
76	Non-Hydrostatic Modeling of Waves Generated by Landslides with Different Mobility. <i>Journal of Marine Science and Engineering</i> , 2019, 7, 266.	1.2	3
77	Instability of loose dry granular slopes observed in centrifuge tilting table tests. <i>Geotechnique Letters</i> , 2019, 9, 147-153.	0.6	3
78	Influence of Specimen Geometry on Sample Disturbance Observed in Oedometric Testing of Clay Shales. <i>Geotechnical Testing Journal</i> , 2012, 35, 771-783.	0.5	3
79	Evaluation of Shape Array sensors to quantify the spatial distribution and seasonal rate of track settlement. <i>Transportation Geotechnics</i> , 2021, 27, 100487.	2.0	2
80	Strength parameter selection framework for evaluating the design life of clay cut slopes. <i>Proceedings of the Institution of Civil Engineers: Geotechnical Engineering</i> , 0, , 1-20.	0.9	2
81	Measurement of Matric Suction Using Tensiometric and Axis Translation Techniques. , 2008, , 3-19.		2
82	Influence of a Weathered Zone on the Susceptibility of a Slope to Rainfall Induced Instability. , 2006, , 2291.		1
83	TXT-tool 3.044-1.1: The Runout of Chalk Cliff Collapsesâ€”Case Studies and Physical Model Experiments. , 2018, , 297-314.		1
84	Abridged translation of the paper from â€œLandslidesâ€” Evaluation of landslide triggering mechanisms in model fill slopes. W. A. Take, M. D. Bolton, P. C. P. Wong and F. J. Yeung. <i>Journal of the Japan Landslide Society</i> , 2005, 42, 267-268.	0.1	1
85	Physical modelling of rainfall-induced flow failures in loose granular soils. <i>IOP Conference Series: Earth and Environmental Science</i> , 2015, 26, 012001.	0.2	0