

Ben A Leshchinsky

List of Publications by Year in descending order

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Version: 2024-02-01

84
papers

1,892
citations

218592

26
h-index

289141

40
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84
all docs

84
docs citations

84
times ranked

1132
citing authors

#	ARTICLE	IF	CITATIONS
1	Kinematics of Irrigation-Induced Landslides in a Washington Desert: Impacts of Basal Geometry. Journal of Geophysical Research F: Earth Surface, 2022, 127, .	1.0	3
2	Evaluation of Active Earth Pressure in Unsaturated Retaining Structures in Presence of Tension Cracks. , 2022, , .		0
3	Rockfall Activity Rates Before, During and After the 2010/2011 Canterbury Earthquake Sequence. Journal of Geophysical Research F: Earth Surface, 2022, 127, .	1.0	7
4	Feedback thresholds between coastal retreat and landslide activity. Engineering Geology, 2022, 301, 106620.	2.9	6
5	SlideSim: 3D Landslide Displacement Monitoring through a Physics-Based Simulation Approach to Self-Supervised Learning. Remote Sensing, 2022, 14, 2644.	1.8	6
6	Influence of failure mechanism on seismic bearing capacity factors for shallow foundations near slopes. Geotechnique, 2021, 71, 594-607.	2.2	42
7	Enhanced Rainfall-Induced Shallow Landslide Activity Following Seismic Disturbance-From Triggering to Healing. Journal of Geophysical Research F: Earth Surface, 2021, 126, .	1.0	6
8	Effect of Tension Crack Formation on Active Earth Pressure Encountered in Unsaturated Retaining Wall Backfills. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2021, 147, .	1.5	20
9	Using High Sample Rate Lidar to Measure Debris-Flow Velocity and Surface Geometry. Environmental and Engineering Geoscience, 2021, 27, 113-126.	0.3	7
10	Clays Are Not Created Equal: How Clay Mineral Type Affects Soil Parameterization. Geophysical Research Letters, 2021, 48, e2021GL095311.	1.5	21
11	Scale effects on the ultimate bearing capacity of rectangular footings placed on slopes. Computers and Geotechnics, 2021, 137, 104254.	2.3	2
12	Lateral spreading within a limit equilibrium framework: Newmark's sliding blocks with degrading yield accelerations. Geotechnique, 2020, 70, 559-561.	2.2	1
13	Internal stability analysis of reinforced convex highway embankments considering seismic loading. Geotextiles and Geomembranes, 2020, 48, 221-229.	2.3	6
14	Characterization of geogrid mechanical and chemical properties from a thirty-six year old mechanically-stabilized earth wall. Geotextiles and Geomembranes, 2020, 48, 793-801.	2.3	9
15	Predicting Aggregate Degradation in Forest Roads in Northwest Oregon. Forests, 2020, 11, 729.	0.9	7
16	Geologic Trends in Shear Strength Properties Inferred Through Three-Dimensional Back Analysis of Landslide Inventories. Journal of Geophysical Research F: Earth Surface, 2020, 125, e2019JF005461.	1.0	13
17	Estimates of three-dimensional rupture surface geometry of deep-seated landslides using landslide inventories and high-resolution topographic data. Geomorphology, 2020, 367, 107332.	1.1	12
18	The Hooskanaden Landslide: historic and recent surge behavior of an active earthflow on the Oregon Coast. Landslides, 2020, 17, 2589-2602.	2.7	9

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19	Insight into the Productivity, Cost and Soil Impacts of Cable-assisted Harvester-forwarder Thinning in Western Oregon. <i>Forest Science</i> , 2020, 66, 82-96.	0.5	6
20	The Aso-Bridge coseismic landslide: a numerical investigation of failure and runout behavior using finite and discrete element methods. <i>Bulletin of Engineering Geology and the Environment</i> , 2019, 78, 2459-2472.	1.6	14
21	Spatial distribution of yield accelerations and permanent displacements: A diagnostic tool for assessing seismic slope stability. <i>Soil Dynamics and Earthquake Engineering</i> , 2019, 126, 105811.	1.9	7
22	Unified Approach toward Evaluating Bearing Capacity of Shallow Foundations near Slopes. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2019, 145, .	1.5	41
23	Sliding Stability of Cable-Assisted Tracked Equipment on Steep Slopes. <i>Forest Science</i> , 2019, 65, 304-311.	0.5	6
24	Evaluation of Bearing Capacity on Geosynthetic-Reinforced Soil Structures Considering Multiple Failure Mechanisms. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2019, 145, .	1.5	37
25	Performance and design of reinforced slopes considering regional hydrological conditions. <i>Geosynthetics International</i> , 2019, 26, 451-473.	1.5	12
26	Quantifying the influence of failure surface asperities on the basal shear resistance of translational landslides. <i>Landslides</i> , 2019, 16, 1375-1383.	2.7	1
27	Experimental-numerical assessment of geogrid-EPS systems for protecting buried utilities. <i>Geosynthetics International</i> , 2019, 26, 333-353.	1.5	18
28	Stability and Failure Geometry of Slopes with Spatially Varying Undrained Shear Strength. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2019, 145, 06019002.	1.5	4
29	Safety in steep slope logging operations. <i>Journal of Agromedicine</i> , 2019, 24, 138-145.	0.9	10
30	A Simplified, Object-Based Framework for Efficient Landslide Inventorying Using LIDAR Digital Elevation Model Derivatives. <i>Remote Sensing</i> , 2019, 11, 303.	1.8	25
31	Evaluation of Uncrewed Aircraft Systems™ Lidar Data Quality. <i>ISPRS International Journal of Geo-Information</i> , 2019, 8, 532.	1.4	10
32	Deadman anchoring design for cable logging: a new approach. <i>Canadian Journal of Forest Research</i> , 2019, , 342-357.	0.8	0
33	Extracting region-specific runout behavior and rainfall thresholds for massive landslides using seismic records: a case study in southern Taiwan. <i>Bulletin of Engineering Geology and the Environment</i> , 2019, 78, 4095-4105.	1.6	3
34	Influence of both anisotropic friction and cohesion on the formation of tension cracks and stability of slopes. <i>Engineering Geology</i> , 2019, 249, 31-44.	2.9	34
35	Quantifying the Sensitivity of Progressive Landslide Movements to Failure Geometry, Undercutting Processes and Hydrological Changes. <i>Journal of Geophysical Research F: Earth Surface</i> , 2019, 124, 616-638.	1.0	8
36	Cyclic and post-cycling anchor response in geocell-reinforced sand. <i>Canadian Geotechnical Journal</i> , 2019, 56, 1700-1718.	1.4	18

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37	Evaluation of reinforcement layout on the serviceability of MSE walls supporting footings. Proceedings of the Institution of Civil Engineers: Ground Improvement, 2018, 171, 232-243.	0.7	1
38	Use of cellular confinement for improved railway performance on soft subgrades. Geotextiles and Geomembranes, 2018, 46, 190-205.	2.3	52
39	Nested Newmark model to calculate the post-earthquake profile of slopes. Engineering Geology, 2018, 233, 139-145.	2.9	14
40	Lateral spreading within a limit equilibrium framework: Newmark sliding blocks with degrading yield accelerations. Geotechnique, 2018, 68, 699-712.	2.2	5
41	Prepare for Cascadia's next earthquake. Science, 2018, 362, 1007-1007.	6.0	0
42	Limit Equilibrium Stability Analysis of Layered Slopes: a Generalized Approach. Transportation Infrastructure Geotechnology, 2018, 5, 366-378.	1.9	6
43	Assessing the ultimate uplift capacity of plate anchors in geocell-reinforced sand. Geosynthetics International, 2018, 25, 612-629.	1.5	26
44	Experimental and numerical investigation of the uplift capacity of plate anchors in geocell-reinforced sand. Geotextiles and Geomembranes, 2018, 46, 801-816.	2.3	45
45	Operative loading in cable yarding systems: field observations of static and dynamic tensions in mobile anchor systems. Canadian Journal of Forest Research, 2018, 48, 1406-1410.	0.8	2
46	Behavior and assessment of mobile anchors in cable yarding systems. Canadian Journal of Forest Research, 2018, 48, 1382-1387.	0.8	1
47	Economic implications of moisture content and logging system in forest harvest residue delivery for energy production: a case study. Canadian Journal of Forest Research, 2017, 47, 458-466.	0.8	11
48	Use of Microgrid Inclusions to Reinforce Sand. , 2017, , .		0
49	Active and passive arching stresses in $c\phi$ soils: A sensitivity study using computational limit analysis. Computers and Geotechnics, 2017, 84, 47-57.	2.3	46
50	Landslide manual and automated inventories, and susceptibility mapping using LIDAR in the forested mountains of Guerrero, Mexico. Geomatics, Natural Hazards and Risk, 2017, 8, 1054-1079.	2.0	26
51	A simplified three-dimensional shallow landslide susceptibility framework considering topography and seismicity. Landslides, 2017, 14, 1677-1697.	2.7	45
52	Limit state design framework for geosynthetic-reinforced soil structures. Geotextiles and Geomembranes, 2017, 45, 642-652.	2.3	32
53	Mitigating coastal landslide damage. Science, 2017, 357, 981-982.	6.0	12
54	Bearing Capacity for Spread Footings Placed Near $c\phi$ Slopes. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2017, 143, .	1.5	44

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55	Finite Element Analysis to Predict In-Forest Stored Harvest Residue Moisture Content. Forest Science, 2017, 63, 362-376.	0.5	5
56	Theoretical Stability and Traction of Steep Slope Tethered Feller-Bunchers. Forest Science, 2017, 63, 192-200.	0.5	19
57	Implications of variationally derived 3D failure mechanism. International Journal for Numerical and Analytical Methods in Geomechanics, 2016, 40, 2514-2531.	1.7	30
58	Required strength of geosynthetic in reinforced soil structures supporting spread footings in three dimensions. Computers and Geotechnics, 2016, 78, 72-87.	2.3	20
59	Active earth pressures from a log-spiral slip surface with arching effects. Geotechnique Letters, 2016, 6, 149-155.	0.6	35
60	Service-state behavior of reinforced soil walls supporting spread footings: a parametric study using finite-element analysis. Geosynthetics International, 2016, 23, 156-170.	1.5	39
61	Discussion: Active earth pressures from a log-spiral slip surface with arching effect. Geotechnique Letters, 2016, 6, 241-243.	0.6	3
62	Evaluating reinforcement loading within surcharged segmental block reinforced soil walls using a limit state framework. Geotextiles and Geomembranes, 2016, 44, 832-844.	2.3	15
63	Service-State Behavior of Segmental MSE Walls: Evaluation of Design Factors Using Finite Element Analyses. , 2016, , .		0
64	Role of suction stress on service state behavior of geosynthetic-reinforced soil structures. Transportation Geotechnics, 2016, 8, 45-56.	2.0	54
65	Microgrid inclusions to increase the strength and stiffness of sand. Geotextiles and Geomembranes, 2016, 44, 170-177.	2.3	9
66	Three-dimensional reinforced slopes: Evaluation of required reinforcement strength and embedment length using limit analysis. Geotextiles and Geomembranes, 2016, 44, 133-142.	2.3	58
67	Analytical design for mobile anchor systems. International Journal of Forest Engineering, 2015, 26, 10-23.	0.4	6
68	Limit Equilibrium and Limit Analysis: Comparison of Benchmark Slope Stability Problems. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2015, 141, .	1.5	35
69	MSE walls as bridge abutments: Optimal reinforcement density. Geotextiles and Geomembranes, 2015, 43, 128-138.	2.3	46
70	Yumokjeong Landslide: an investigation of progressive failure of a hillslope using the finite element method. Landslides, 2015, 12, 997-1005.	2.7	48
71	Bearing Capacity of Footings Placed Adjacent to $c\phi$ Slopes. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2015, 141, .	1.5	86
72	Global Stability of Bilinear Reinforced Slopes. Transportation Infrastructure Geotechnology, 2015, 2, 34-46.	1.9	8

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73	Active Earth Pressures for Unsaturated Retaining Structures. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2015, 141, .	1.5	115
74	Contour Connection Method for automated identification and classification of landslide deposits. Computers and Geosciences, 2015, 74, 27-38.	2.0	32
75	Required unfactored strength of geosynthetics in reinforced 3D slopes. Geotextiles and Geomembranes, 2014, 42, 576-585.	2.3	26
76	Impact of Cohesion on Seismic Design of Geosynthetic-Reinforced Earth Structures. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2014, 140, .	1.5	52
77	Limit Analysis Optimization of Design Factors for Mechanically Stabilized Earth Wall-Supported Footings. Transportation Infrastructure Geotechnology, 2014, 1, 111-128.	1.9	25
78	Effects of Geocell Confinement on Strength and Deformation Behavior of Gravel. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2013, 139, 340-352.	1.5	114
79	Numerical modeling of behavior of railway ballasted structure with geocell confinement. Geotextiles and Geomembranes, 2013, 36, 33-43.	2.3	129
80	Comparison of Limit Equilibrium and Limit Analysis for Complex Slopes. , 2013, , .		7
81	Revisiting bearing capacity analysis of MSE walls. Geotextiles and Geomembranes, 2012, 34, 100-107.	2.3	8
82	Enhancing Ballast Performance Using Geocell Confinement. , 2011, , .		11
83	Centrifuge Modeling of Slope Instability. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2009, 135, 758-767.	1.5	56
84	Effects of Pre-Bunching Trees With a Tethered Feller-Buncher on Cable Logging Productivity and Costs: A Case Study in Southern Oregon. Forest Science, 0, , .	0.5	2