

Ben A Leshchinsky

List of Publications by Year in descending order

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Version: 2024-02-01

84
papers

1,892
citations

218677

26
h-index

289244

40
g-index

84
all docs

84
docs citations

84
times ranked

1132
citing authors

#	ARTICLE	IF	CITATIONS
1	Numerical modeling of behavior of railway ballasted structure with geocell confinement. Geotextiles and Geomembranes, 2013, 36, 33-43.	4.6	129
2	Active Earth Pressures for Unsaturated Retaining Structures. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2015, 141, .	3.0	115
3	Effects of Geocell Confinement on Strength and Deformation Behavior of Gravel. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2013, 139, 340-352.	3.0	114
4	Bearing Capacity of Footings Placed Adjacent to $c\phi$ Slopes. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2015, 141, .	3.0	86
5	Three-dimensional reinforced slopes: Evaluation of required reinforcement strength and embedment length using limit analysis. Geotextiles and Geomembranes, 2016, 44, 133-142.	4.6	58
6	Centrifuge Modeling of Slope Instability. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2009, 135, 758-767.	3.0	56
7	Role of suction stress on service state behavior of geosynthetic-reinforced soil structures. Transportation Geotechnics, 2016, 8, 45-56.	4.5	54
8	Impact of Cohesion on Seismic Design of Geosynthetic-Reinforced Earth Structures. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2014, 140, .	3.0	52
9	Use of cellular confinement for improved railway performance on soft subgrades. Geotextiles and Geomembranes, 2018, 46, 190-205.	4.6	52
10	Yumokjeong Landslide: an investigation of progressive failure of a hillslope using the finite element method. Landslides, 2015, 12, 997-1005.	5.4	48
11	MSE walls as bridge abutments: Optimal reinforcement density. Geotextiles and Geomembranes, 2015, 43, 128-138.	4.6	46
12	Active and passive arching stresses in $c\phi$ soils: A sensitivity study using computational limit analysis. Computers and Geotechnics, 2017, 84, 47-57.	4.7	46
13	A simplified three-dimensional shallow landslide susceptibility framework considering topography and seismicity. Landslides, 2017, 14, 1677-1697.	5.4	45
14	Experimental and numerical investigation of the uplift capacity of plate anchors in geocell-reinforced sand. Geotextiles and Geomembranes, 2018, 46, 801-816.	4.6	45
15	Bearing Capacity for Spread Footings Placed Near $c\phi$ Slopes. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2017, 143, .	3.0	44
16	Influence of failure mechanism on seismic bearing capacity factors for shallow foundations near slopes. Geotechnique, 2021, 71, 594-607.	4.0	42
17	Unified Approach toward Evaluating Bearing Capacity of Shallow Foundations near Slopes. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2019, 145, .	3.0	41
18	Service-state behavior of reinforced soil walls supporting spread footings: a parametric study using finite-element analysis. Geosynthetics International, 2016, 23, 156-170.	2.9	39

#	ARTICLE	IF	CITATIONS
19	Evaluation of Bearing Capacity on Geosynthetic-Reinforced Soil Structures Considering Multiple Failure Mechanisms. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2019, 145, .	3.0	37
20	Limit Equilibrium and Limit Analysis: Comparison of Benchmark Slope Stability Problems. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2015, 141, .	3.0	35
21	Active earth pressures from a log-spiral slip surface with arching effects. <i>Geotechnique Letters</i> , 2016, 6, 149-155.	1.2	35
22	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.	6.3	34
23	Contour Connection Method for automated identification and classification of landslide deposits. <i>Computers and Geosciences</i> , 2015, 74, 27-38.	4.2	32
24	Limit state design framework for geosynthetic-reinforced soil structures. <i>Geotextiles and Geomembranes</i> , 2017, 45, 642-652.	4.6	32
25	Implications of variationally derived 3D failure mechanism. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2016, 40, 2514-2531.	3.3	30
26	Required unfactored strength of geosynthetics in reinforced 3D slopes. <i>Geotextiles and Geomembranes</i> , 2014, 42, 576-585.	4.6	26
27	Landslide manual and automated inventories, and susceptibility mapping using LIDAR in the forested mountains of Guerrero, Mexico. <i>Geomatics, Natural Hazards and Risk</i> , 2017, 8, 1054-1079.	4.3	26
28	Assessing the ultimate uplift capacity of plate anchors in geocell-reinforced sand. <i>Geosynthetics International</i> , 2018, 25, 612-629.	2.9	26
29	Limit Analysis Optimization of Design Factors for Mechanically Stabilized Earth Wall-Supported Footings. <i>Transportation Infrastructure Geotechnology</i> , 2014, 1, 111-128.	3.1	25
30	A Simplified, Object-Based Framework for Efficient Landslide Inventorying Using LIDAR Digital Elevation Model Derivatives. <i>Remote Sensing</i> , 2019, 11, 303.	4.0	25
31	Clays Are Not Created Equal: How Clay Mineral Type Affects Soil Parameterization. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL095311.	4.0	21
32	Required strength of geosynthetic in reinforced soil structures supporting spread footings in three dimensions. <i>Computers and Geotechnics</i> , 2016, 78, 72-87.	4.7	20
33	Effect of Tension Crack Formation on Active Earth Pressure Encountered in Unsaturated Retaining Wall Backfills. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2021, 147, .	3.0	20
34	Theoretical Stability and Traction of Steep Slope Tethered Feller-Bunchers. <i>Forest Science</i> , 2017, 63, 192-200.	1.0	19
35	Experimental-numerical assessment of geogrid-EPS systems for protecting buried utilities. <i>Geosynthetics International</i> , 2019, 26, 333-353.	2.9	18
36	Cyclic and post-cycling anchor response in geocell-reinforced sand. <i>Canadian Geotechnical Journal</i> , 2019, 56, 1700-1718.	2.8	18

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37	Evaluating reinforcement loading within surcharged segmental block reinforced soil walls using a limit state framework. <i>Geotextiles and Geomembranes</i> , 2016, 44, 832-844.	4.6	15
38	Nested Newmark model to calculate the post-earthquake profile of slopes. <i>Engineering Geology</i> , 2018, 233, 139-145.	6.3	14
39	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.	3.5	14
40	Geologic Trends in Shear Strength Properties Inferred Through Three-dimensional Back Analysis of Landslide Inventories. <i>Journal of Geophysical Research F: Earth Surface</i> , 2020, 125, e2019JF005461.	2.8	13
41	Mitigating coastal landslide damage. <i>Science</i> , 2017, 357, 981-982.	12.6	12
42	Performance and design of reinforced slopes considering regional hydrological conditions. <i>Geosynthetics International</i> , 2019, 26, 451-473.	2.9	12
43	Estimates of three-dimensional rupture surface geometry of deep-seated landslides using landslide inventories and high-resolution topographic data. <i>Geomorphology</i> , 2020, 367, 107332.	2.6	12
44	Enhancing Ballast Performance Using Geocell Confinement. , 2011, , .		11
45	Economic implications of moisture content and logging system in forest harvest residue delivery for energy production: a case study. <i>Canadian Journal of Forest Research</i> , 2017, 47, 458-466.	1.7	11
46	Safety in steep slope logging operations. <i>Journal of Agromedicine</i> , 2019, 24, 138-145.	1.5	10
47	Evaluation of Uncrewed Aircraft Systems™ Lidar Data Quality. <i>ISPRS International Journal of Geo-Information</i> , 2019, 8, 532.	2.9	10
48	Microgrid inclusions to increase the strength and stiffness of sand. <i>Geotextiles and Geomembranes</i> , 2016, 44, 170-177.	4.6	9
49	Characterization of geogrid mechanical and chemical properties from a thirty-six year old mechanically-stabilized earth wall. <i>Geotextiles and Geomembranes</i> , 2020, 48, 793-801.	4.6	9
50	The Hooskanaden Landslide: historic and recent surge behavior of an active earthflow on the Oregon Coast. <i>Landslides</i> , 2020, 17, 2589-2602.	5.4	9
51	Revisiting bearing capacity analysis of MSE walls. <i>Geotextiles and Geomembranes</i> , 2012, 34, 100-107.	4.6	8
52	Global Stability of Bilinear Reinforced Slopes. <i>Transportation Infrastructure Geotechnology</i> , 2015, 2, 34-46.	3.1	8
53	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.	2.8	8
54	Comparison of Limit Equilibrium and Limit Analysis for Complex Slopes. , 2013, , .		7

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55	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.	3.8	7
56	Predicting Aggregate Degradation in Forest Roads in Northwest Oregon. <i>Forests</i> , 2020, 11, 729.	2.1	7
57	Using High Sample Rate Lidar to Measure Debris-Flow Velocity and Surface Geometry. <i>Environmental and Engineering Geoscience</i> , 2021, 27, 113-126.	0.9	7
58	Rockfall Activity Rates Before, During and After the 2010/2011 Canterbury Earthquake Sequence. <i>Journal of Geophysical Research F: Earth Surface</i> , 2022, 127, .	2.8	7
59	Analytical design for mobile anchor systems. <i>International Journal of Forest Engineering</i> , 2015, 26, 10-23.	0.8	6
60	Limit Equilibrium Stability Analysis of Layered Slopes: a Generalized Approach. <i>Transportation Infrastructure Geotechnology</i> , 2018, 5, 366-378.	3.1	6
61	Sliding Stability of Cable-Assisted Tracked Equipment on Steep Slopes. <i>Forest Science</i> , 2019, 65, 304-311.	1.0	6
62	Internal stability analysis of reinforced convex highway embankments considering seismic loading. <i>Geotextiles and Geomembranes</i> , 2020, 48, 221-229.	4.6	6
63	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.	1.0	6
64	Enhanced Rainfall-Induced Shallow Landslide Activity Following Seismic Disturbance"From Triggering to Healing. <i>Journal of Geophysical Research F: Earth Surface</i> , 2021, 126, .	2.8	6
65	Feedback thresholds between coastal retreat and landslide activity. <i>Engineering Geology</i> , 2022, 301, 106620.	6.3	6
66	SlideSim: 3D Landslide Displacement Monitoring through a Physics-Based Simulation Approach to Self-Supervised Learning. <i>Remote Sensing</i> , 2022, 14, 2644.	4.0	6
67	Finite Element Analysis to Predict In-Forest Stored Harvest Residue Moisture Content. <i>Forest Science</i> , 2017, 63, 362-376.	1.0	5
68	Lateral spreading within a limit equilibrium framework: Newmark sliding blocks with degrading yield accelerations. <i>Geotechnique</i> , 2018, 68, 699-712.	4.0	5
69	Stability and Failure Geometry of Slopes with Spatially Varying Undrained Shear Strength. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2019, 145, 06019002.	3.0	4
70	Discussion: Active earth pressures from a log-spiral slip surface with arching effect. <i>Geotechnique Letters</i> , 2016, 6, 241-243.	1.2	3
71	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.	3.5	3
72	Kinematics of Irrigation-Induced Landslides in a Washington Desert: Impacts of Basal Geometry. <i>Journal of Geophysical Research F: Earth Surface</i> , 2022, 127, .	2.8	3

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73	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.	1.7	2
74	Scale effects on the ultimate bearing capacity of rectangular footings placed on slopes. Computers and Geotechnics, 2021, 137, 104254.	4.7	2
75	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, , .	1.0	2
76	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.	1.0	1
77	Behavior and assessment of mobile anchors in cable yarding systems. Canadian Journal of Forest Research, 2018, 48, 1382-1387.	1.7	1
78	Quantifying the influence of failure surface asperities on the basal shear resistance of translational landslides. Landslides, 2019, 16, 1375-1383.	5.4	1
79	Lateral spreading within a limit equilibrium framework: Newmark's sliding blocks with degrading yield accelerations. Geotechnique, 2020, 70, 559-561.	4.0	1
80	Service-State Behavior of Segmental MSE Walls: Evaluation of Design Factors Using Finite Element Analyses. , 2016, , .		0
81	Use of Microgrid Inclusions to Reinforce Sand. , 2017, , .		0
82	Prepare for Cascadia's next earthquake. Science, 2018, 362, 1007-1007.	12.6	0
83	Deadman anchoring design for cable logging: a new approach. Canadian Journal of Forest Research, 2019, , 342-357.	1.7	0
84	Evaluation of Active Earth Pressure in Unsaturated Retaining Structures in Presence of Tension Cracks. , 2022, , .		0