

Michael A Mooney

List of Publications by Year in descending order

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Version: 2024-02-01

27
papers

941
citations

471509

17
h-index

610901

24
g-index

27
all docs

27
docs citations

27
times ranked

526
citing authors

#	ARTICLE	IF	CITATIONS
1	Strain Localization and Undrained Steady State of Sand. Journal of Geotechnical Engineering, 1996, 122, 462-473.	0.4	113
2	Field Monitoring of Roller Vibration during Compaction of Subgrade Soil. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2007, 133, 257-265.	3.0	105
3	A Unique Critical State for Sand?. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 1998, 124, 1100-1108.	3.0	81
4	Analysis of Lightweight Deflectometer Test Based on In Situ Stress and Strain Response. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2009, 135, 199-208.	3.0	72
5	Instrumentation of a roller compactor to monitor vibration behavior during earthwork compaction. Automation in Construction, 2008, 17, 144-150.	9.8	64
6	Capturing Nonlinear Vibratory Roller Compactor Behavior through Lumped Parameter Modeling. Journal of Engineering Mechanics - ASCE, 2008, 134, 684-693.	2.9	63
7	Adventure Engineering: A Design Centered, Inquiry Based Approach to Middle Grade Science and Mathematics Education. Journal of Engineering Education, 2002, 91, 309-318.	3.0	50
8	In Situ Soil Response to Vibratory Loading and Its Relationship to Roller-Measured Soil Stiffness. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2009, 135, 1022-1031.	3.0	47
9	Finite element analysis of vibratory roller response on layered soil systems. Computers and Geotechnics, 2015, 67, 73-82.	4.7	45
10	Analysis of surface waves from the light weight deflectometer. Soil Dynamics and Earthquake Engineering, 2009, 29, 1134-1142.	3.8	43
11	The role of slurry TBM parameters on ground deformation: Field results and computational modelling. Tunnelling and Underground Space Technology, 2016, 57, 257-264.	6.2	41
12	Undrained Shear Band Deformation in Granular Media. Journal of Engineering Mechanics - ASCE, 1997, 123, 577-585.	2.9	34
13	Characterization of Two-Layer Soil System Using a Lightweight Deflectometer with Radial Sensors. Transportation Research Record, 2010, 2186, 21-28.	1.9	34
14	Influence of Lightweight Deflectometer Characteristics on Deflection Measurement. Geotechnical Testing Journal, 2013, 36, 20120034.	1.0	25
15	Anisotropy in the Spatial Distribution of Roller-Measured Soil Stiffness. International Journal of Geomechanics, 2010, 10, 129-135.	2.7	24
16	Genetic Algorithm to Optimize Layer Parameters in Light Weight Deflectometer Backcalculation. International Journal of Geomechanics, 2013, 13, 473-476.	2.7	18
17	Influence of Rocking Motion on Vibratory Roller-Based Measurement of Soil Stiffness. Journal of Engineering Mechanics - ASCE, 2010, 136, 898-905.	2.9	17
18	Understanding the Soil Contact Problem for the LWD and Static Drum Roller by Using the DEM. Journal of Engineering Mechanics - ASCE, 2012, 138, 124-132.	2.9	11

#	ARTICLE	IF	CITATIONS
19	Examination of Roller-Integrated Continuous Compaction Control on Colorado Test Site. Transportation Research Record, 2012, 2310, 3-9.	1.9	10
20	The influence of face and shield annulus pressure on tunnel liner load development. Tunnelling and Underground Space Technology, 2021, 117, 104096.	6.2	10
21	Capturing a Layer Response during the Curing of Stabilized Earthwork Using a Multiple Sensor Lightweight Deflectometer. Journal of Materials in Civil Engineering, 2015, 27, .	2.9	9
22	Sensitivity of lightweight deflectometer deflections to layer stiffness via finite element analysis. Canadian Geotechnical Journal, 2015, 52, 961-970.	2.8	9
23	Comparison of Stress States and Paths. Transportation Research Record, 2009, 2116, 8-15.	1.9	6
24	Measurement of Static and Dynamic Soil Stress and Strain using In-ground Instrumentation. , 2007, , 1.		5
25	Instrumentation of a Roller Compactor to Monitor Vibration Behavior during Earthwork Compaction. , 2005, , .		3
26	Development of a machine integrated strain-based contact force sensor for pad foot soil compactors. Journal of Terramechanics, 2014, 51, 31-41.	3.1	1
27	Surface Wave Testing to Investigate the Nature of Roller Determined Soil Stiffness. , 2007, , .		1