Chaminda Gallage

List of Publications by Year
in descending order

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44 papers	841 citations	516215 16 h-index	525886 27 g-index
44 all docs	44 docs citations	44 times ranked	618 citing authors

#	Article	IF	Citations
1	Effects of Dry Density and Grain Size Distribution on Soil-Water Characteristic Curves of Sandy Soils. Soils and Foundations, 2010, 50, 161-172.	1.3	114
2	Laboratory measurement of hydraulic conductivity functions of two unsaturated sandy soils during drying and wetting processes. Soils and Foundations, 2013, 53, 417-430.	1.3	85
3	Blast Response of Segmented Bored Tunnel using Coupled SPHâ€“FE Method. Structures, 2015, 2, 58-71.	1.7	56
4	Function of permeable geosynthetics in unsaturated embankments subjected to rainfall infiltration. Geosynthetics International, 2007, 14, 89-99.	1.5	43
5	Soil moisture monitoring at the field scale using neutron probe. Canadian Geotechnical Journal, 2014, 51, 332-345.	1.4	43
6	Performance characteristics of recycled concrete aggregate as an unbound pavement material. Heliyon, 2019, 5, e02494.	1.4	33
7	Direct Shear Testing on Unsaturated Silty Soils to Investigate the Effects of Drying and Wetting on Shear Strength Parameters at Low Suction. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2016, 142, .	1.5	30
8	Effects of reclaimed asphalt materials on geotechnical characteristics of recycled concrete aggregates as a pavement material. Road Materials and Pavement Design, 2019, 20, 754-772.	2.0	27
9	Assessment of recycled concrete aggregates as a pavement material. Geomechanics and Engineering, 2014, 6, 235-248.	0.9	27
10	An improved modal strain energy method for structural damage detection, 2D simulation. Structural Engineering and Mechanics, 2015, 54, 105-119.	1.0	27
11	Performance of Buried Tunnels Subjected to Surface Blast Incorporating Fluid-Structure Interaction. Journal of Performance of Constructed Facilities, 2015, 29, .	1.0	25
12	Field performance of in-service cast iron water reticulation pipe buried in reactive clay. Canadian Geotechnical Journal, 2015, 52, 1861-1873.	1.4	23
13	Instrumented model slopes to investigate the effects of slope inclination on rainfall-induced landslides. Soils and Foundations, 2021, 61, 160-174.	1.3	23
14	Measuring hydraulic properties of geotextiles after installation damage. Geotextiles and Geomembranes, 2017, 45, 462-470.	2.3	22
15	Impact resistance and evaluation of retained strength on geotextiles. Geotextiles and Geomembranes, 2016, 44, 549-556.	2.3	19
16	Response of segmented bored transit tunnels to surface blast. Advances in Engineering Software, 2015, 89, 77-89.	1.8	18
17	Response of a plastic pipe buried in expansive clay. Proceedings of the Institution of Civil Engineers: Geotechnical Engineering, 2012, 165, 45-57.	0.9	17
18	Performance of composite geogrid reinforced unpaved pavements under cyclic loading. Construction and Building Materials, 2021, 304, 124570.	3.2	15

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19	Oedometer based estimation of vertical shrinkage of expansive soil in a large instrumeted soil column. Heliyon, 2019, 5, e02380.	1.4	14
20	Blast Response and Failure Analysis of a Segmented Buried Tunnel. Structural Engineering International: Journal of the International Association for Bridge and Structural Engineering (IABSE), 2015, 25, 419-431.	0.5	12
21	Statistical analysis of the additional amplification in deep basins relative to the 1D approach. Soil Dynamics and Earthquake Engineering, 2018, 104, 296-306.	1.9	12
22	Superior performance benefits of multigrade bitumen asphalt with recycled asphalt pavement additive. Construction and Building Materials, 2020, 230, 116963.	3.2	12
23	Field studies on sleeper deflection and ballast pressure in heavy haul track. Australian Journal of Structural Engineering, 2018, 19, 96-104.	0.4	11
24	Soilâ€“Pile Interaction of Pile Embedded in Deep-Layered Marine Sediment under Seismic Excitation. Structural Engineering International: Journal of the International Association for Bridge and Structural Engineering (IABSE), 2014, 24, 521-531.	0.5	10
25	Benchmark Studies for Bridge Health Monitoring Using an Improved Modal Strain Energy Method. Procedia Engineering, 2017, 188, 194-200.	1.2	10
26	Effects of principal stress axis rotation on cyclic deformation characteristics of rail track subgrade materials. Soils and Foundations, 2017, 57, 423-438.	1.3	10
27	Effectiveness and Sensitivity of Fiber Inclusion on Desiccation Cracking Behavior of Reinforced Clayey Soil. International Journal of Geomechanics, 2022, 22, .	1.3	10
28	Effects of Recycled Asphalt Pavement on the Stiffness and Fatigue Performance of Multigrade Bitumen Asphalt. Journal of Materials in Civil Engineering, 2018, 30, .	1.3	9
29	Inherent Characteristics of 2D Alluvial Formations Subjected to In-Plane Motion. Journal of Earthquake Engineering, 2019, 23, 1512-1530.	1.4	9
30	Effects of Principal Stress Axis Rotation on Unsaturated Rail Track Foundation Deterioration. Procedia Engineering, 2016, 143, 252-259.	1.2	8
31	Determination of the hydraulic conductivity function of grey Vertosol with soil column test. Heliyon, 2020, 6, e05399.	1.4	8
32	Quantifying the edge-induced seismic aggravation in shallow basins relative to the 1D SH modelling. Soil Dynamics and Earthquake Engineering, 2018, 115, 402-412.	1.9	7
33	Properties of Hand-made Clay Balls used as a Novel Filter Media. Geomechanics and Engineering, 2012, 4, 281-294.	0.9	7
34	Use of Particle Image Velocimetry (PIV) technique to measure strains in geogrids. E3S Web of Conferences, 2019, 92, 12007.	0.2	6
35	Temperature Variation through Deep Multigrade Asphalt Pavements and Proposed Method for Accounting for Fluctuations. Journal of Materials in Civil Engineering, 2020, 32, 04020005.	1.3	6
36	An instrumented large soil column to investigate climatic ground interaction. International Journal of Physical Modelling in Geotechnics, 2021, 21, 55-71.	0.5	6

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37	Evaluating the Tensile Properties of Geogrids Using the Particle Image Velocimetry Technique. Journal of Materials in Civil Engineering, 2021, 33, .	1.3	6
38	Discussion: Response of a plastic pipe buried in expansive clay. Proceedings of the Institution of Civil Engineers: Geotechnical Engineering, 2013, 166, 328-330.	0.9	5
39	Development of Design Guidelines for Composite-Geogrid Reinforced Unpaved Pavements. Lecture Notes in Civil Engineering, 2022, , 375-387.	0.3	5
40	Predicting California Bearing Ratio (CBR) Value of a Selected Subgrade Material. Lecture Notes in Civil Engineering, 2022, , 547-558.	0.3	4
41	Optimising geosynthetic clay liner overlaps: implications on hydraulic performance. Environmental Geotechnics, 2021, 8, 264-273.	1.3	3
42	Monotonic Loading Test to Investigate the Benefits of Composite Geogrids for Subgrade Improvement. Lecture Notes in Civil Engineering, 2022, , 469-482.	0.3	3
43	Cyclic plastic deformation characteristics of subgrade under moving train wheel load. Japanese Geotechnical Society Special Publication, 2016, 2, 1619-1622.	0.2	1
44	Estimation of Poissonâ€™s Ratio and Variation of Tensile Yield Strength of Composite Clay Balls Used in Pebble Matrix Filtration. Journal of Materials in Civil Engineering, 2017, 29, 04017107.	1.3	0