

Sayantana Chakraborty

List of Publications by Year in descending order

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Version: 2024-02-01

31
papers

221
citations

1162889

8
h-index

1125617

13
g-index

31
all docs

31
docs citations

31
times ranked

114
citing authors

#	ARTICLE	IF	CITATIONS
1	Impact of curing time on moisture-induced damage in lime-treated soils. International Journal of Pavement Engineering, 2020, 21, 215-227.	2.2	29
2	Impact of different hydrated cementitious phases on moisture-induced damage in lime-stabilised subgrade soils. Road Materials and Pavement Design, 2018, 19, 1389-1405.	2.0	22
3	Role of crystalline silica admixture in mitigating ettringite-induced heave in lime-treated sulfate-rich soils. Geotechnique, 2022, 72, 438-454.	2.2	20
4	Variation of Resilient Modulus of Subgrade Soils over a Wide Range of Suction States. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2020, 146, .	1.5	17
5	Improvement of Strength and Volume-Change Properties of Expansive Clays with Geopolymer Treatment. Transportation Research Record, 2021, 2675, 308-320.	1.0	15
6	Natural frequency of earthen dams at different induced strain levels. Engineering Geology, 2019, 248, 330-345.	2.9	14
7	Utilization of Silica-Based Admixture to Improve the Durability of Lime-Treated Expansive Soil. , 2021, , .		11
8	Evaluating the Performance of Wicking Geotextile in Providing Drainage for Flexible Pavements Built over Expansive Soils. Transportation Research Record, 2021, 2675, 208-221.	1.0	10
9	Seismic Slope Stability Analysis of a Hydraulic Fill Dam. International Journal of Geomechanics, 2021, 21, .	1.3	8
10	Understanding Shallow Slope Failures on Expansive Soil Embankments in North Texas Using Unsaturated Soil Property Framework. , 2018, , .		7
11	Sustainability and resilience in pavement infrastructure: a unified assessment framework. Environmental Geotechnics, 0, , 1-13.	1.3	7
12	A Novel Method to Improve the Durability of Lime-Treated Expansive Soil. Lecture Notes in Civil Engineering, 2021, , 227-238.	0.3	7
13	Resilient Characteristics of Polymer Emulsion-Treated Sandy Soil. Transportation Research Record, 2022, 2676, 526-538.	1.0	7
14	A rational approach to select the number of field tests required to determine subgrade properties. International Journal of Pavement Engineering, 2019, 20, 1118-1126.	2.2	5
15	Seismic response analysis of a hydraulic fill dam. Acta Geotechnica, 2020, 15, 3095-3110.	2.9	5
16	Utilization of Metakaolin-Based Geopolymers for Stabilization of Sulfate-Rich Expansive Soils. , 2022, , .		5
17	Impact of Variation of Small Strain Shear Modulus on Seismic Slope Stability Analysis of a Levee: A Sensitivity Analysis. , 2018, , .		4
18	Influence of Anisotropic Permeability on Slope Stability Analysis of an Earthen Dam during Rapid Drawdown. , 2020, , .		4

#	ARTICLE	IF	CITATIONS
19	Forensic Analyses and Rehabilitation of a Failed Highway Embankment Slope in Texas. Transportation Research Record, 2021, 2675, 121-134.	1.0	4
20	Use of Constant Energy Source in SASW Test and Its Influence on Seismic Response Analysis. Geotechnical Testing Journal, 2019, 41, 20170220.	0.5	4
21	Comparison of Earthquake-Induced Pore Water Pressure and Deformations in Earthen Dams Using Non-Linear and Equivalent Linear Analyses. , 2020, , .		3
22	Permeability Characteristics of Polymer Emulsion-Stabilized Soils. , 2022, , .		3
23	Predicting the Performance of Highway Embankment Slopes. MATEC Web of Conferences, 2019, 271, 02007.	0.1	2
24	Geomaterial Characterization and Stability Assessment of Hydraulic Fill Dams. Journal of Materials in Civil Engineering, 2021, 33, 04020446.	1.3	2
25	Effect of Constant Energy Source on Coherence Function in Spectral Analysis of Surface Waves (SASW) Testing. Lecture Notes in Civil Engineering, 2019, , 59-65.	0.3	1
26	Resilient Modulus of Expansive Soils in North Texas Treated with Liquid Ionic Soil Stabilizer (LISS). , 2020, , .		1
27	Recent Advancements in Predicting the Behaviour of Unsaturated and Expansive Soils. Lecture Notes in Civil Engineering, 2021, , 1-21.	0.3	1
28	Effect of geomaterial variability on seismic response analyses of earthen dams. Engineering Geology, 2022, 297, 106513.	2.9	1
29	Application of Wicking Geotextile for Pavement Infrastructure on Expansive Soil. Lecture Notes in Civil Engineering, 2022, , 533-544.	0.3	1
30	Inverse Analysis of a Failed Highway Embankment Slope in North Texas. Lecture Notes in Civil Engineering, 2022, , 583-594.	0.3	1
31	Establishing a Threshold Sustainability Index for a Geotechnical Construction. , 2018, , .		0