

# Sathiyamoorthy Rajesh

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2925812/publications.pdf>

Version: 2024-02-01

54  
papers

766  
citations

516561

16  
h-index

610775

24  
g-index

58  
all docs

58  
docs citations

58  
times ranked

326  
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of Lignosulfonate on Strength and Deformation Behavior of Swelling Soil. Lecture Notes in Civil Engineering, 2022, , 257-269.	0.3	0
2	Air and hydraulic flow characteristics of polymer amended bentonite based unsaturated GCLs. Geosynthetics International, 2022, 29, 282-298.	1.5	4
3	Passive resistance of unsaturated backfill under steady state flow conditions. Geomechanics and Geoengineering, 2022, 17, 1653-1669.	0.9	3
4	Geosynthetic encased column-supported embankment: behavior with and without basal geogrid. Geosynthetics International, 2022, 29, 312-325.	1.5	11
5	Effect of Addition of Phosphogypsum on Strength and Deformation Behavior of Expansive Soils. , 2022, , .		0
6	Performance of Soft Clay Reinforced with Encased Stone Column: A Systematic Review. International Journal of Geosynthetics and Ground Engineering, 2022, 8, .	0.9	5
7	Coupled Effect of Suction Stress and Unit Weight on the Active Earth Pressure of Unsaturated Backfills. International Journal of Geomechanics, 2022, 22, .	1.3	0
8	Time-Dependent Behavior of Embankment Resting on Soft clay Reinforced with Encased Stone Columns. Transportation Geotechnics, 2022, 36, 100809.	2.0	11
9	Analytical solution to estimate the point of application of resultant passive earth thrust against unsaturated retaining structures. Geomechanics and Geoengineering, 2021, 16, 509-516.	0.9	4
10	3D coupled mechanical and hydraulic modeling of geosynthetic encased stone column-supported embankment over soft clay. Marine Georesources and Geotechnology, 2021, 39, 1285-1295.	1.2	10
11	Centrifuge model tests on the deformation behavior of geosynthetic-encased stone column supported embankment under undrained condition. Geotextiles and Geomembranes, 2021, 49, 550-563.	2.3	29
12	Centrifuge modeling of geosynthetic-encased stone column-supported embankment over soft clay. Geotextiles and Geomembranes, 2021, 49, 210-221.	2.3	34
13	Physical and numerical modelling of strip footing on geogrid reinforced transparent sand. Geotextiles and Geomembranes, 2021, 49, 399-412.	2.3	43
14	Modeling the WRC and volume change behavior of GCLs considering net stress and temperature. Geosynthetics International, 2021, 28, 174-185.	1.5	4
15	An Apparatus to Measure Gas Diffusion and Gas Permeability of Unsaturated Cap Barriers Subjected to Distortion. Geotechnical Testing Journal, 2021, 44, 462-482.	0.5	3
16	Pullout Behavior of Triaxial Geogrid Embedded in a Transparent Soil. International Journal of Geomechanics, 2021, 21, .	1.3	19
17	Performance enhancement of encased stone column with conductive natural geotextile under $k_0$ stress condition. Geotextiles and Geomembranes, 2021, 49, 1095-1106.	2.3	15
18	Test Apparatus for Rapid Determination of Soil-Water Retention Curve under Isotropic Loading Condition. Geotechnical Testing Journal, 2021, 44, 255-273.	0.5	3

#	ARTICLE	IF	CITATIONS
19	Study of Stabilized Expansive Soil as Subgrade under Extreme Climatic Conditions. , 2021, , .		0
20	3-D Finite Element Study of Embankment Resting on Soft Soil Reinforced with Encased Stone Column. Lecture Notes in Civil Engineering, 2021, , 451-465.	0.3	5
21	The coupled effect of suction and net stress on the air permeability of compacted soils. Geotechnique Letters, 2020, 10, 50-56.	0.6	6
22	Simplified Model to Predict Features of Soilâ€™Water Retention Curve Accounting for Stress State Conditions. International Journal of Geomechanics, 2020, 20, .	1.3	17
23	Numerical Evaluation of Geogrid-Encased Stone Columns in Soft Soil under Embankment Loading. , 2020, , .		6
24	System reliability analysis of geosynthetic reinforced soil slope considering local reinforcement failure. Computers and Geotechnics, 2020, 123, 103563.	2.3	20
25	Methane Emission from Municipal Solid Waste Landfillsâ€™Estimation and Control. Energy, Environment, and Sustainability, 2020, , 375-395.	0.6	3
26	Enhanced Engineering Characteristics of Soils by Electro-Osmotic Treatment: An Overview. Geotechnical and Geological Engineering, 2019, 37, 4649-4673.	0.8	19
27	Efficacy of Coupled Solidâ€™Fluid Formulation in Regularizing an Ill-Posed Finite Element Model. Indian Geotechnical Journal, 2019, 49, 409-420.	0.7	6
28	Characterization of water sorption and retention behavior of partially saturated GCLs using vapor equilibrium and filter paper methods. Applied Clay Science, 2018, 157, 177-188.	2.6	19
29	Influence of Confining Pressure on Water Retention Characteristics of Compacted Soil. Indian Geotechnical Journal, 2018, 48, 327-341.	0.7	9
30	Waste Containment System to Limit Landfill Gas Emissionâ€™Mechanism, Measurement, and Performance Assessment. Energy, Environment, and Sustainability, 2018, , 371-389.	0.6	0
31	Influence of Confining Pressure on Air Permeability of Unsaturated Soil Barrier. , 2018, , .		2
32	Linear and nonlinear elastic analysis of closely spaced strip foundations using Pasternak model. Frontiers of Structural and Civil Engineering, 2017, 11, 228-243.	1.2	16
33	Numerical study on intermittent geofom in-filled trench as vibration barrier considering soil non-linearity and circular dynamic source. International Journal of Geotechnical Engineering, 2017, 11, 278-288.	1.1	10
34	Study of measured and fitted SWCC accounting the irregularity in the measured dataset. International Journal of Geotechnical Engineering, 2017, 11, 321-331.	1.1	21
35	Reliability-Based Assessment of Municipal Solid Waste Landfill Slope. Journal of Hazardous, Toxic, and Radioactive Waste, 2017, 21, .	1.2	13
36	Time-dependent behaviour of fully and partially penetrated geosynthetic encased stone columns. Geosynthetics International, 2017, 24, 60-71.	1.5	37

#	ARTICLE	IF	CITATIONS
37	Performance of Compacted Soil Barriers under the Advective Gas Flow Condition. , 2016, , .		3
38	Environmental geotechnology: an Indian perspective. Environmental Geotechnics, 2015, 2, 336-348.	1.3	14
39	Influence of permeability of soft clay on the efficiency of stone columns and geosynthetic-encased stone columns " a numerical study. International Journal of Geotechnical Engineering, 2015, 9, 483-493.	1.1	29
40	Numerical Simulation of Geogrid-Reinforced Soil Barriers Subjected to Differential Settlements. International Journal of Geomechanics, 2015, 15, .	1.3	20
41	A generalized model for geosynthetic reinforced railway tracks resting on soft clays. International Journal for Numerical and Analytical Methods in Geomechanics, 2015, 39, 310-326.	1.7	13
42	Evaluation of gas permeability and mechanical behaviour of soil barriers of landfill cap covers through laboratory tests. Applied Clay Science, 2014, 97-98, 200-214.	2.6	27
43	Centrifuge and Numerical Study on the Behavior of Clay-Based Landfill Covers Subjected to Differential Settlements. Journal of Hazardous, Toxic, and Radioactive Waste, 2012, 16, 284-297.	1.2	7
44	Centrifuge Modeling and Instrumentation of Geogrid-Reinforced Soil Barriers of Landfill Covers. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2012, 138, 26-37.	1.5	25
45	Influence of randomly distributed geofibers on the integrity of clay-based landfill covers: a centrifuge study. Geosynthetics International, 2011, 18, 255-271.	1.5	24
46	Hydro-mechanical behavior of geogrid reinforced soil barriers of landfill cover systems. Geotextiles and Geomembranes, 2011, 29, 51-64.	2.3	37
47	Performance assessment of deformation behaviour of landfill barriers at the onset of differential settlement. International Journal of Environmental Engineering, 2010, 2, 269.	0.1	5
48	Deformation behavior of clay cap barriers of hazardous waste containment systems: Full-scale and centrifuge tests. Geotextiles and Geomembranes, 2010, 28, 281-291.	2.3	46
49	Investigation of a landslide in Russia " finite element and probabilistic approach. International Journal of Geotechnical Engineering, 2010, 4, 517-525.	1.1	3
50	Effect of Thickness of Hydraulic Barrier on The Integrity of A Cover System Subjected To Differential Settlements. , 2010, , 555-560.		0
51	Development of a Motor-Based Differential Settlement Simulator Setup for a Geotechnical Centrifuge. Geotechnical Testing Journal, 2010, 33, 507-513.	0.5	5
52	Centrifuge model tests on clay based engineered barriers subjected to differential settlements. Applied Clay Science, 2009, 42, 460-472.	2.6	62
53	Evaluation of geogrid as a reinforcement layer in clay based engineered barriers. Applied Clay Science, 2009, 46, 153-165.	2.6	32
54	Studies on the Integrity of Clay-Rich Soil Liners for Cover Systems of Landfills. , 2008, , .		0