

# Muthukkumaran Kasinathan

## List of Publications by Year in descending order

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Version: 2024-02-01

46  
papers

547  
citations

933447

10  
h-index

713466

21  
g-index

49  
all docs

49  
docs citations

49  
times ranked

234  
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of alkali-treated sisal fibres on expansive clay. Proceedings of the Institution of Civil Engineers: Ground Improvement, 2023, 176, 233-248.	1.0	3
2	Experimental study on evaluating the lateral load capacity of raker pile in sloping ground. Australian Journal of Civil Engineering, 2023, 21, 20-33.	1.6	2
3	Consolidation Effect on Pile Capacity Assessment Based on Instrumented Field Pile Load Test. Arabian Journal for Science and Engineering, 2022, 47, 4913-4927.	3.0	1
4	Assessment of dynamic properties of a new lunar highland soil simulant (LSS-ISAC-1) developed for Chandrayaan missions. Soil Dynamics and Earthquake Engineering, 2022, 155, 107178.	3.8	3
5	STUDY ON LOW GRAVITY EFFECT ON BEARING CAPACITY AND SLOPE STABILITY OF A NEW LUNAR HIGHLAND SOIL SIMULANT (LSS-ISAC-1) FOR FUTURISTIC MOON HABITATION. Advances in Space Research, 2022, , .	2.6	2
6	Numerical Study on the Effect of Using Dented Sheet Liner in Pervious Concrete Pile to Improve Soft Soil. International Journal of Geomechanics, 2022, 22, .	2.7	1
7	Non-linear performance analysis of free headed piles in consolidating soil subjected to lateral loads. Engineering Science and Technology, an International Journal, 2021, 24, 449-457.	3.2	1
8	Effect of Rock-Socketing on Laterally Loaded Piles Installed in the Proximity of Sloping Ground. International Journal of Geomechanics, 2021, 21, .	2.7	11
9	Evaluation of Pavement Stripping Using Ground-Penetrating Radar: A Case Study. Indian Geotechnical Journal, 2021, 51, 197-204.	1.4	2
10	Geotechnical Properties of Lunar Soil Simulants. Lecture Notes in Civil Engineering, 2021, , 73-82.	0.4	0
11	Dynamic Characterization of Lunar Soil Simulant (LSS-ISAC-1) for Moonquake Analysis. Springer Transactions in Civil and Environmental Engineering, 2021, , 513-523.	0.4	0
12	A methodology for the transformation of architectural forms into music and vice-versa for the enhancement of the musical and architectural libraries. Multimedia Tools and Applications, 2021, 80, 10901-10926.	3.9	3
13	Estimation of lateral capacity of rock socketed piles in layered soil-rock profile. International Journal of Geo-Engineering, 2021, 12, 1.	2.1	3
14	Assessment of innovative dented sheet liner on the improvement of hydraulic properties of pervious concrete pile. Engineering Science and Technology, an International Journal, 2021, , .	3.2	1
15	A lunar soil simulant (LSS-ISAC-1) for the lunar exploration programme of the Indian Space Research Organisation. Icarus, 2021, 366, 114511.	2.5	4
16	Assessment of shear strength and compressibility characteristics of a newly developed lunar highland soil simulant (LSS-ISAC-1) for Chandrayaan lander and rover missions. Planetary and Space Science, 2021, 209, 105354.	1.7	8
17	Analysis of laterally loaded group of piles located on sloping ground. International Journal of Geotechnical Engineering, 2020, 14, 580-588.	2.0	23
18	Development of a novel lunar highland soil simulant (LSS-ISAC-1) and its geotechnical properties for Chandrayaan missions. Planetary and Space Science, 2020, 194, 105116.	1.7	8

#	ARTICLE	IF	CITATIONS
19	Invention of Indian Moon Soil (Lunar Highland Soil Simulant) for Chandrayaan Missions. International Journal of Geosynthetics and Ground Engineering, 2020, 6, 1.	2.0	3
20	Study on geomechanical properties of lunar soil simulant (LSS-ISAC-1) for chandrayaan mission. Advances in Space Research, 2020, 66, 2711-2721.	2.6	18
21	Study on Behavior of Copper Slag and Lime-Treated Clay under Static and Dynamic Loading. Journal of Materials in Civil Engineering, 2020, 32, .	2.9	8
22	Stabilization of Montmorillonite-Rich Bentonite Clay Using Neem Leaves Ash. International Journal of Geosynthetics and Ground Engineering, 2020, 6, 1.	2.0	4
23	Deciphering the frozen music in building architecture and vice-versa process. Multimedia Tools and Applications, 2020, 79, 13501-13532.	3.9	1
24	Experimental Investigation on Behavior of a Laterally Loaded Single Pile Located on Sloping Ground. International Journal of Geomechanics, 2019, 19, .	2.7	41
25	Effect of Slope on p-y Curves for Laterally Loaded Piles in Soft Clay. Geotechnical and Geological Engineering, 2018, 36, 1509-1524.	1.7	28
26	FRP-Strengthened RC Piles. II: Piles under Cyclic Lateral Loads. Journal of Performance of Constructed Facilities, 2017, 31, .	2.0	5
27	FRP-Strengthened RC Piles. I: Piles under Static Lateral Loads. Journal of Performance of Constructed Facilities, 2017, 31, .	2.0	10
28	Development of Non-dimension p-y Curves for Laterally Loaded Piles in Sloping Ground. Indian Geotechnical Journal, 2017, 47, 47-56.	1.4	20
29	Durability of microbially induced calcite precipitation (micp) treated cohesionless soils. Japanese Geotechnical Society Special Publication, 2016, 2, 1946-1949.	0.2	9
30	Effect of Earthquake on a Single Pile Located in Sloping Ground. International Journal of Geotechnical Earthquake Engineering, 2016, 7, 57-72.	0.6	12
31	Assessment of pile failures due to excessive settlement during pile load test. Japanese Geotechnical Society Special Publication, 2016, 2, 2520-2524.	0.2	3
32	Behavior of pile due to combined loading with lateral soil movement. International Journal of Geo-Engineering, 2016, 7, 1.	2.1	13
33	Response of laterally loaded pile in soft clay on sloping ground. International Journal of Geotechnical Engineering, 2016, 10, 10-22.	2.0	43
34	Experimental Investigation of Single Model Pile Subjected to Lateral Load in Sloping Ground. Geotechnical and Geological Engineering, 2015, 33, 935-946.	1.7	38
35	Utilization of Industrial Waste Products in the Stabilization of Montmorillonite-Rich Expansive Soil. , 2014, , .		1
36	Bioclogging in porous media: influence in reduction of hydraulic conductivity and organic contaminants during synthetic leachate permeation. Journal of Environmental Health Science & Engineering, 2014, 12, 126.	3.0	16

#	ARTICLE	IF	CITATIONS
37	Effect of Raker Piles in Lateral Load Capacity of Laterally Loaded Pile Group. , 2014, , .		2
38	Effect of Slope and Loading Direction on Laterally Loaded Piles in Cohesionless Soil. International Journal of Geomechanics, 2014, 14, 1-7.	2.7	122
39	Effect of Earthquake Induced Lateral Soil Movement On Pile Behavior. International Journal of Geotechnical Earthquake Engineering, 2011, 2, 71-90.	0.6	1
40	Investigation of Geotechnical Failures and Documentation. , 2010, , .		0
41	Multilinear Regression Analysis for Seismic Response and Engineering Properties of Liquefiable Coromandel Coastal Soil Deposits. Geotechnical and Geological Engineering, 2009, 27, 439-453.	1.7	2
42	Experimental investigation on single model pile in sloping ground under lateral load. International Journal of Geotechnical Engineering, 2009, 3, 133-146.	2.0	46
43	Numerical modeling of dredging effect on berthing structure. Acta Geotechnica, 2007, 2, 249-259.	5.7	10
44	Development of Non-dimensional Design Chart Incorporating the Effect of Raker Piles in Pile Groups Under Lateral Load. International Journal of Civil Engineering, 0, , 1.	2.0	1
45	Effect of tie rod anchor on the behaviour of berthing structures. Proceedings of the Institution of Civil Engineers: Maritime Engineering, 0, , 1-10.	0.2	2
46	Effect of seabed slope on pile behaviour of fixed offshore platform under lateral forces. Journal of Ocean Engineering and Marine Energy, 0, , .	1.7	3