

# A Murali Krishna

## List of Publications by Year in descending order

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Version: 2024-02-01

75  
papers

1,205  
citations

331642

21  
h-index

414395

32  
g-index

78  
all docs

78  
docs citations

78  
times ranked

619  
citing authors

#	ARTICLE	IF	CITATIONS
1	Evaluation of dynamic properties of sandy soil at high cyclic strains. <i>Soil Dynamics and Earthquake Engineering</i> , 2017, 99, 157-167.	3.8	112
2	Seismic response of reinforced soil retaining wall models: Influence of backfill relative density. <i>Geotextiles and Geomembranes</i> , 2008, 26, 335-349.	4.6	87
3	Seismic response of wrap-faced reinforced soil-retaining wall models using shaking table tests. <i>Geosynthetics International</i> , 2007, 14, 355-364.	2.9	68
4	Recycled Tire Chips Mixed with Sand as Lightweight Backfill Material in Retaining Wall Applications: An Experimental Investigation. <i>International Journal of Geosynthetics and Ground Engineering</i> , 2015, 1, 1.	2.0	60
5	Behavior of Geosynthetic Reinforced Soil Foundation Systems Supported on Stiff Clay Subgrade. <i>International Journal of Geomechanics</i> , 2016, 16, .	2.7	53
6	Experimental Investigation of Interface Behaviour of Different Types of Granular Soil/Geosynthetics. <i>International Journal of Geosynthetics and Ground Engineering</i> , 2016, 2, 1.	2.0	52
7	Influence of subgrade strength on the performance of geocell-reinforced foundation systems. <i>Geosynthetics International</i> , 2013, 20, 376-388.	2.9	51
8	Evaluation of the Optimum Mixing Ratio of a Sand-Tire Chips Mixture for Geoengineering Applications. <i>Journal of Materials in Civil Engineering</i> , 2016, 28, .	2.9	50
9	Dynamic soil properties for seismic ground response studies in Northeastern India. <i>Soil Dynamics and Earthquake Engineering</i> , 2017, 100, 357-370.	3.8	41
10	Modeling the Dynamic Response of Wrap-Faced Reinforced Soil Retaining Walls. <i>International Journal of Geomechanics</i> , 2012, 12, 439-450.	2.7	36
11	Geocell-Reinforced Foundation Systems: A Critical Review. <i>International Journal of Geosynthetics and Ground Engineering</i> , 2017, 3, 1.	2.0	35
12	Economic MEMS based 3-axis water proof accelerometer for dynamic geo-engineering applications. <i>Soil Dynamics and Earthquake Engineering</i> , 2012, 36, 111-118.	3.8	34
13	Influence of digital elevation models on the simulation of rainfall-induced landslides in the hillslopes of Guwahati, India. <i>Engineering Geology</i> , 2020, 268, 105523.	6.3	30
14	Seismic Ground Response Analysis of Some Typical Sites of Guwahati City. <i>International Journal of Geotechnical Earthquake Engineering</i> , 2013, 4, 83-101.	0.6	29
15	Dynamic properties and liquefaction behaviour of cohesive soil in northeast India under staged cyclic loading. <i>Journal of Rock Mechanics and Geotechnical Engineering</i> , 2018, 10, 958-967.	8.1	29
16	Behavior of Geogrid Reinforced Foundation Systems Supported on Clay Subgrades of Different Strengths. <i>International Journal of Geosynthetics and Ground Engineering</i> , 2015, 1, 1.	2.0	26
17	Scenario based seismic re-qualification of caisson supported major bridges – A case study of Saraighat Bridge. <i>Soil Dynamics and Earthquake Engineering</i> , 2017, 100, 270-275.	3.8	26
18	Sustainable Utilization of Scrap Tire Derived Geomaterials for Geotechnical Applications. <i>Indian Geotechnical Journal</i> , 2018, 48, 251-266.	1.4	25

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19	Dynamic soil properties and liquefaction potential of northeast Indian soil for non-linear effective stress analysis. <i>Bulletin of Earthquake Engineering</i> , 2019, 17, 2899-2933.	4.1	25
20	Bearing capacity improvement of square footing by micropiles. <i>International Journal of Geotechnical Engineering</i> , 2011, 5, 113-118.	2.0	24
21	Seismic behaviour of rigid-faced reinforced soil retaining wall models: reinforcement effect. <i>Geosynthetics International</i> , 2009, 16, 364-373.	2.9	23
22	Development of numerical model of wrap-faced walls subjected to seismic excitation. <i>Geosynthetics International</i> , 2012, 19, 354-369.	2.9	22
23	Importance of Site-Specific Dynamic Soil Properties for Seismic Ground Response Studies. <i>International Journal of Geotechnical Earthquake Engineering</i> , 2018, 9, 78-98.	0.6	20
24	Pullout Tests Using Modified Direct Shear Test Setup for Measuring Soil-Geosynthetic Interaction Parameters. <i>International Journal of Geosynthetics and Ground Engineering</i> , 2016, 2, 1.	2.0	19
25	Effect of Slope Angle on the Stability of a Slope Under Rainfall Infiltration. <i>Indian Geotechnical Journal</i> , 2019, 49, 708-717.	1.4	17
26	Response of saturated cohesionless soil subjected to irregular seismic excitations. <i>Natural Hazards</i> , 2018, 93, 509-529.	3.4	14
27	Assessment of Dynamic Response of Cohesionless Soil Using Strain-Controlled and Stress-Controlled Cyclic Triaxial Tests. <i>Geotechnical and Geological Engineering</i> , 2020, 38, 1431-1450.	1.7	14
28	Densification effect of granular piles on settlement response of treated ground. <i>Proceedings of the Institution of Civil Engineers: Ground Improvement</i> , 2007, 11, 127-136.	1.0	11
29	Tyre chips as compressible inclusions in earth-retaining walls. <i>Proceedings of the Institution of Civil Engineers: Ground Improvement</i> , 2017, 170, 137-148.	1.0	11
30	Behaviour of geocell-geogrid reinforced foundations on clay subgrades of varying strengths. <i>International Journal of Physical Modelling in Geotechnics</i> , 2018, 18, 301-314.	0.6	11
31	Treatment of Loose to Medium Dense Sands by Granular Piles: Improved SPT $\hat{N}_{1\hat{N}}$ Values. <i>Geotechnical and Geological Engineering</i> , 2009, 27, 455-459.	1.7	10
32	Seismic Requalification of Geotechnical Structures. <i>Indian Geotechnical Journal</i> , 2014, 44, 113-118.	1.4	10
33	Sand-scrap tyre chip mixtures for improving the dynamic behaviour of retaining walls. <i>International Journal of Geotechnical Engineering</i> , 0, , 1-13.	2.0	10
34	Liquefaction Potential Assessment of Brahmaputra Sand Based on Regular and Irregular Excitations Using Stress-Controlled Cyclic Triaxial Test. <i>KSCE Journal of Civil Engineering</i> , 2020, 24, 1070-1082.	1.9	10
35	Mitigation of Liquefaction Hazard Using Granular Piles. <i>International Journal of Geotechnical Earthquake Engineering</i> , 2011, 2, 44-66.	0.6	9
36	Behavior of Rigid-Faced Reinforced Soil-Retaining Walls Subjected to Different Earthquake Ground Motions. <i>International Journal of Geomechanics</i> , 2017, 17, .	2.7	9

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37	High Strain Dynamic Properties of Perfectly Dry and Saturated Cohesionless Soil. Indian Geotechnical Journal, 2018, 48, 549-557.	1.4	9
38	Stability analysis of two-layered non-homogeneous slopes. International Journal of Geotechnical Engineering, 2021, 15, 617-623.	2.0	9
39	Engineering of Ground for Liquefaction Mitigation Using Granular Columnar Inclusions: Recent Developments. American Journal of Engineering and Applied Sciences, 2009, 2, 526-536.	0.6	7
40	Nonlinear Seismic Ground Response Analysis in Northeastern India Considering the Comprehensive Dynamic Soil Behavior. Indian Geotechnical Journal, 2022, 52, 650-674.	1.4	6
41	Equivalent deformation properties of ground treated with rammed granular piles. International Journal of Geotechnical Engineering, 2007, 1, 31-38.	2.0	5
42	Ground Engineering with Granular Inclusions for Loose Saturated Sands Subjected to Seismic Loadings. Indian Geotechnical Journal, 2014, 44, 205-217.	1.4	5
43	Liquefaction Mitigation of Sand Deposits by Granular Piles- an Overview. , 2008, , 66-79.		4
44	Behaviour of circular footing resting on layered foundation: sand overlying clay of varying strengths. International Journal of Geotechnical Engineering, 2017, , 1-16.	2.0	4
45	Dynamic Characterization of Soils Using Various Methods for Seismic Site Response Studies. Developments in Geotechnical Engineering, 2019, , 273-301.	0.6	4
46	Performance of Geosynthetic Reinforced Shallow Foundations. Indian Geotechnical Journal, 2021, 51, 583-597.	1.4	4
47	Sand-Tire Chip Mixtures for Sustainable Geoengineering Applications. Springer Transactions in Civil and Environmental Engineering, 2017, , 223-241.	0.4	3
48	Geotechnical Characterization of Hillslope Soils of Guwahati Region. Lecture Notes in Civil Engineering, 2019, , 103-110.	0.4	3
49	Seismic Analysis of Reinforced Soil Retaining Walls. Developments in Geotechnical Engineering, 2019, , 159-171.	0.6	3
50	Reliability Based Performance Evaluation of Earth Retaining Structures. , 2011, , .		2
51	Strain Behavior of Soil and Reinforcement in Wrap Faced Reinforced Soil Walls Subjected to Seismic Excitation. Indian Geotechnical Journal, 2015, 45, 318-331.	1.4	2
52	Lateral Behavior of Pile Foundations during Partial Liquefaction. , 2018, , .		2
53	Evaluation of monotonic and dynamic shear modulus of sand using on-sample transducers in cyclic triaxial apparatus. Acta Geotechnica, 2021, 16, 221-236.	5.7	2
54	Feasibility Study of Retaining Walls Backfilled with Sand-Tire Chip Mixtures. Developments in Geotechnical Engineering, 2017, , 241-253.	0.6	2

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55	Investigation of Rainfall-Induced Landslides at the Hillslopes of Guwahati Region, Assam. Developments in Geotechnical Engineering, 2020, , 75-87.	0.6	2
56	Dynamic Response of Reinforced Soil Retaining Walls. , 2006, , 348.		1
57	Effects of reinforcement on the geo-structure for mitigation of the earthquake effects. Japanese Geotechnical Society Special Publication, 2016, 2, 2319-2323.	0.2	1
58	Forensic investigation of earthquake induced failures during Sikkim 2011 earthquake, India. Japanese Geotechnical Society Special Publication, 2016, 2, 201-206.	0.2	1
59	Monotonic and dynamic properties of riverbed sand and hill-slope soils of seismically active North-east India for ground engineering applications. International Journal of Geo-Engineering, 2020, 11, 1.	2.1	1
60	Characterization of Ground Response and Liquefaction for Kathmandu City Based on 2015 Earthquake Using Total Stress and Effective Stress Approach. International Journal of Geotechnical Earthquake Engineering, 2020, 11, 1-25.	0.6	1
61	Stability Analysis of Non-homogeneous Soil Slopes Using Numerical Techniques. Lecture Notes in Civil Engineering, 2019, , 219-227.	0.4	1
62	Impedance Functions for Double-D-Shaped Caisson Foundations. Journal of Testing and Evaluation, 2019, 47, 1900-1919.	0.7	1
63	Seismic Response of Rigid Faced Reinforced Soil Retaining Walls. , 2008, , .		0
64	Seismic Response of Rigid Faced Reinforced Soil Retaining Walls. International Journal of Geotechnical Earthquake Engineering, 2012, 3, 1-14.	0.6	0
65	Engineering of Ground for Liquefaction Mitigation. , 2018, , 173-201.		0
66	Dynamic Properties and PWP Model Parameters of Sandy Soil for Ground Response Analysis. Lecture Notes in Civil Engineering, 2021, , 737-749.	0.4	0
67	Geosynthetics in Retaining Walls Subjected to Seismic Shaking. Springer Transactions in Civil and Environmental Engineering, 2021, , 359-372.	0.4	0
68	Nonlinear Ground Response Analysis: A Case Study of Amingaon, North Guwahati, Assam. Springer Transactions in Civil and Environmental Engineering, 2021, , 539-550.	0.4	0
69	Implications of On-Sample LVDTs in Cyclic Triaxial Test to Measure Small-Strain Shear Modulus. Lecture Notes in Civil Engineering, 2021, , 53-61.	0.4	0
70	DENSIFICATION EFFECT OF GRANULAR PILES IN LIQUEFACTION MITIGATION. , 2005, , .		0
71	Seismic Requalification of Pile-Supported Structure: Pseudo-Static Approach. Lecture Notes in Civil Engineering, 2021, , 601-616.	0.4	0
72	Performance of Geocell-Reinforced Sand Foundations with Clay Subgrades of Varying Strength. Springer Transactions in Civil and Environmental Engineering, 2020, , 153-172.	0.4	0

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73	Stability of Two-Layered Earth Slope Under Varying Rainfall Intensity. Lecture Notes in Civil Engineering, 2020, , 373-383.	0.4	0
74	Mitigation of Liquefaction Hazard Using Granular Piles. Advances in Environmental Engineering and Green Technologies Book Series, 0, , 86-116.	0.4	0
75	Stability analysis of an unsaturated pond ash slope subjected to rainfall. IOP Conference Series: Earth and Environmental Science, 2022, 1026, 012022.	0.3	0