

# Vinay Kumar Gadi

## List of Publications by Year in descending order

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Version: 2024-02-01

23  
papers

379  
citations

933410

10  
h-index

794568

19  
g-index

25  
all docs

25  
docs citations

25  
times ranked

224  
citing authors

#	ARTICLE	IF	CITATIONS
1	Spatial and temporal variation of hydraulic conductivity and vegetation growth in green infrastructures using infiltrometer and visual technique. <i>Catena</i> , 2017, 155, 20-29.	5.0	63
2	Improving and correcting unsaturated soil hydraulic properties with plant parameters for agriculture and bioengineered slopes. <i>Rhizosphere</i> , 2016, 1, 58-78.	3.0	56
3	Monitoring soil cracking and plant parameters for a mixed grass species. <i>Geotechnique Letters</i> , 2018, 8, 49-55.	1.2	45
4	Influence of <i>Eichhornia crassipes</i> fibre on water retention and cracking of vegetated soils. <i>Geotechnique Letters</i> , 2018, 8, 130-137.	1.2	26
5	Probabilistic analysis of suction in homogeneously vegetated soils. <i>Catena</i> , 2017, 149, 394-401.	5.0	24
6	Effect of shoot parameters on cracking in vegetated soil. <i>Environmental Geotechnics</i> , 2018, 5, 123-130.	2.3	23
7	Relating stomatal conductance and surface area with evapotranspiration induced suction in a heterogeneous grass cover. <i>Journal of Hydrology</i> , 2019, 568, 867-876.	5.4	22
8	A non-intrusive image analysis technique for measurement of heterogeneity in grass species around tree vicinity in a green infrastructure. <i>Measurement: Journal of the International Measurement Confederation</i> , 2018, 114, 132-143.	5.0	20
9	Water Retention and Desiccation Potential of Lignocellulose-Based Fiber-Reinforced Soil. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2019, 145, .	3.0	18
10	Generalized Approach for Determination of Thermal Conductivity of Buffer Materials. <i>Journal of Hazardous, Toxic, and Radioactive Waste</i> , 2017, 21, .	2.0	11
11	A Novel Python Program to Automate Soil Colour Analysis and Interpret Surface Moisture Content. <i>International Journal of Geosynthetics and Ground Engineering</i> , 2020, 6, 1.	2.0	11
12	A New Autonomous Program Customized for Computing Surface Cracks in an Unsaturated Soil in a 1-D Column. <i>Journal of Testing and Evaluation</i> , 2019, 47, 3822-3835.	0.7	11
13	Modeling soil-crackâ€“waterâ€“atmospheric interactions: a novel root water uptake approach to simulate the evaporation through cracked soil and experimental validation. <i>Geotechnical and Geological Engineering</i> , 2020, 38, 935-946.	1.7	9
14	Sustainable Geotechnics: A Bio-geotechnical Perspective. <i>Developments in Geotechnical Engineering</i> , 2019, , 313-331.	0.6	8
15	Assessment of the coupled effects of vegetation leaf and root characteristics on soil suction: an integrated numerical modeling and probabilistic approach. <i>Acta Geotechnica</i> , 2020, 15, 1331-1339.	5.7	8
16	Understanding Soil Surface Water Content Using Light Reflection Theory: A Novel Color Analysis Technique Considering Variability in Light Intensity. <i>Journal of Testing and Evaluation</i> , 2020, 48, 4053-4066.	0.7	8
17	Dynamics of soil water content using field monitoring and AI: A case study of a vegetated soil in an urban environment in China. <i>Sustainable Computing: Informatics and Systems</i> , 2020, 28, 100301.	2.2	6
18	Growth dynamics of deciduous species during their life period: A case study of urban green space in India. <i>Urban Forestry and Urban Greening</i> , 2019, 43, 126380.	5.3	3

#	ARTICLE	IF	CITATIONS
19	A Simple Trilingual APP for Determining Near-Surface Soil Moisture. Indian Geotechnical Journal, 2021, 51, 870-875.	1.4	2
20	A Novel Approach to Interpret Soil Moisture Content for Economical Monitoring of Urban Landscape. Sustainability, 2019, 11, 5609.	3.2	1
21	Spatial Heterogeneity of Hydraulic Conductivity in Green Infrastructure Due to Presence of Wilted and Live Grass: A Field Study. Environmental Science and Engineering, 2019, , 393-400.	0.2	1
22	A Novel Color Analysis Technique for Differentiation of Mix Grass Cover under Shade and without Shade in Green Infrastructures. Advances in Civil Engineering Materials, 2017, 6, 564-582.	0.6	1
23	Demonstration and Validation of a Biosensing Technique to Interpret Suction Induced in Vegetated Soil. Indian Geotechnical Journal, 0, , 1.	1.4	0