

Sitharam T G

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

137
papers

2,418
citations

31
h-index

43
g-index

140
ext. papers

2,782
ext. citations

1.9
avg, IF

5.64
L-index

#	Paper	IF	Citations
137	Bearing capacity of circular footing on geocell and mattress overlying clay bed with void. <i>Geotextiles and Geomembranes</i> , 2009 , 27, 89-98	5.2	126
136	Probabilistic seismic hazard analysis for Bangalore. <i>Natural Hazards</i> , 2009 , 48, 145-166	3	88
135	Seismic Site Classification and Correlation between Standard Penetration Test N Value and Shear Wave Velocity for Lucknow City in Indo-Gangetic Basin. <i>Pure and Applied Geophysics</i> , 2013 , 170, 299-318	2.2	76
134	Seismic Hazard Analysis for the Bangalore Region. <i>Natural Hazards</i> , 2007 , 40, 261-278	3	76
133	Estimation of peak ground acceleration and spectral acceleration for South India with local site effects: probabilistic approach. <i>Natural Hazards and Earth System Sciences</i> , 2009 , 9, 865-878	3.9	74
132	Model studies of a circular footing supported on geocell-reinforced clay. <i>Canadian Geotechnical Journal</i> , 2005 , 42, 693-703	3.2	69
131	Discrete element modelling of cyclic behaviour of granular materials. <i>Geotechnical and Geological Engineering</i> , 2003 , 21, 297-329	1.5	62
130	Nonlinear Finite-Element Modeling of Batter Piles under Lateral Load. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2001 , 127, 604-612	3.4	56
129	Model studies of embedded circular footing on geogrid-reinforced sand beds. <i>Proceedings of the Institution of Civil Engineers: Ground Improvement</i> , 2004 , 8, 69-75	1	55
128	Spatial Variability of the Depth of Weathered and Engineering Bedrock using Multichannel Analysis of Surface Wave Method. <i>Pure and Applied Geophysics</i> , 2009 , 166, 409-428	2.2	50
127	Micromechanical modelling of monotonic drained and undrained shear behaviour of granular media using three-dimensional DEM. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2002 , 26, 1167-1189	4	50
126	Ground motion prediction equation considering combined dataset of recorded and simulated ground motions. <i>Soil Dynamics and Earthquake Engineering</i> , 2013 , 53, 92-108	3.5	49
125	Experimental and numerical studies on footings supported on geocell reinforced sand and clay beds. <i>International Journal of Geotechnical Engineering</i> , 2013 , 7, 346-354	1.5	49
124	Multi-criteria seismic hazard evaluation for Bangalore city, India. <i>Journal of Asian Earth Sciences</i> , 2010 , 38, 186-198	2.8	47
123	Mapping of Average Shear Wave Velocity for Bangalore Region: A Case Study. <i>Journal of Environmental and Engineering Geophysics</i> , 2008 , 13, 69-84	1	47
122	Seismic microzonation of Bangalore, India. <i>Journal of Earth System Science</i> , 2008 , 117, 833-852	1.8	47
121	Deterministic seismic hazard macrozonation of India. <i>Journal of Earth System Science</i> , 2012 , 121, 1351-1364	3.6	45

120	Critical state behaviour of granular materials from isotropic and rebounded paths: DEM simulations. <i>Granular Matter</i> , 2009 , 11, 33-42	2.6	45
119	Effect of infill materials on the performance of geocell reinforced soft clay beds. <i>Geomechanics and Geoengineering</i> , 2015 , 10, 163-173	1.4	40
118	OCR Prediction Using Support Vector Machine Based on Piezocone Data. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2008 , 134, 894-898	3.4	40
117	Undrained Cyclic Pore Pressure Response of SandSilt Mixtures: Effect of Nonplastic Fines and Other Parameters. <i>Geotechnical and Geological Engineering</i> , 2009 , 27, 501-517	1.5	39
116	Probabilistic assessment of surface level seismic hazard in India using topographic gradient as a proxy for site condition. <i>Geoscience Frontiers</i> , 2015 , 6, 847-859	6	38
115	Use of Bamboo in Soft-Ground Engineering and Its Performance Comparison with Geosynthetics: Experimental Studies. <i>Journal of Materials in Civil Engineering</i> , 2015 , 27, 04014256	3	37
114	Seismic hazard analysis of Lucknow considering local and active seismic gaps. <i>Natural Hazards</i> , 2013 , 69, 327-350	3	36
113	Comprehensive seismic hazard assessment of Tripura and Mizoram states. <i>Journal of Earth System Science</i> , 2014 , 123, 837-857	1.8	35
112	Probabilistic seismic hazard analysis of Tripura and Mizoram states. <i>Natural Hazards</i> , 2013 , 68, 1089-1108		35
111	Seismic hazard analysis of India using areal sources. <i>Journal of Asian Earth Sciences</i> , 2013 , 62, 647-653	2.8	35
110	Experimental and Analytical Studies on Soft Clay Beds Reinforced with Bamboo Cells and Geocells. <i>International Journal of Geosynthetics and Ground Engineering</i> , 2015 , 1, 1	2	33
109	Characterization of Regional Seismic Source Zones in and around India. <i>Seismological Research Letters</i> , 2012 , 83, 77-85	3	33
108	Practical Equivalent Continuum Model for Simulation of Jointed Rock Mass Using FLAC3D. <i>International Journal of Geomechanics</i> , 2007 , 7, 389-395	3.1	33
107	Least-square support vector machine applied to settlement of shallow foundations on cohesionless soils. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2008 , 32, 2033-2043	4	32
106	Undrained monotonic response of sandSilt mixtures: effect of nonplastic fines. <i>Geomechanics and Geoengineering</i> , 2011 , 6, 47-58	1.4	31
105	Site classification and estimation of surface level seismic hazard using geophysical data and probabilistic approach. <i>Journal of Applied Geophysics</i> , 2009 , 68, 219-230	1.7	31
104	Use of remote sensing and seismotectonic parameters for seismic hazard analysis of Bangalore. <i>Natural Hazards and Earth System Sciences</i> , 2006 , 6, 927-939	3.9	31
103	Spatial variation of seismicity parameters across India and adjoining areas. <i>Natural Hazards</i> , 2012 , 60, 1365-1379	3	30

102	Prediction of Elastic Modulus of Jointed Rock Mass Using Artificial Neural Networks. <i>Geotechnical and Geological Engineering</i> , 2008 , 26, 443-452	1.5	30
101	Spatial Variability of Rock Depth in Bangalore Using Geostatistical, Neural Network and Support Vector Machine Models. <i>Geotechnical and Geological Engineering</i> , 2008 , 26, 503-517	1.5	25
100	Joint Strength and Wall Deformation Characteristics of a Single-Cell Geocell Subjected to Uniaxial Compression. <i>International Journal of Geomechanics</i> , 2015 , 15, 04014080	3.1	24
99	Response of laterally loaded pile in soft clay on sloping ground. <i>International Journal of Geotechnical Engineering</i> , 2016 , 10, 10-22	1.5	23
98	Seismic microzonation of a nuclear power plant site with detailed geotechnical, geophysical and site effect studies. <i>Natural Hazards</i> , 2014 , 71, 419-462	3	22
97	Evaluation of Shear Modulus and Damping Ratio of Granular Materials Using Discrete Element Approach. <i>Geotechnical and Geological Engineering</i> , 2010 , 28, 591-601	1.5	22
96	Analysis of strength and moduli of jointed rocks. <i>Geotechnical and Geological Engineering</i> , 2000 , 18, 3-21	1.5	22
95	Dynamic Site Characterization and Correlation of Shear Wave Velocity with Standard Penetration Test Values for the City of Agartala, Tripura State, India. <i>Pure and Applied Geophysics</i> , 2014 , 171, 1859-1876	2.2	20
94	Probabilistic Models for Forecasting Earthquakes in the Northeast Region of India. <i>Bulletin of the Seismological Society of America</i> , 2015 , 105, 2910-2927	2.3	19
93	Postliquefaction Undrained Shear Behavior of Sand-Silt Mixtures at Constant Void Ratio. <i>International Journal of Geomechanics</i> , 2013 , 13, 421-429	3.1	19
92	Comprehensive Probabilistic Seismic Hazard Analysis of the Andaman-Nicobar Regions. <i>Bulletin of the Seismological Society of America</i> , 2012 , 102, 2063-2076	2.3	18
91	Geotechnical aspects and ground response studies in Bhuj earthquake, India. <i>Geotechnical and Geological Engineering</i> , 2004 , 22, 439-455	1.5	18
90	Numerical simulation of liquefaction behaviour of granular materials using Discrete Element Method. <i>Journal of Earth System Science</i> , 2003 , 112, 479-484	1.8	18
89	A study on seismicity and seismic hazard for Karnataka State. <i>Journal of Earth System Science</i> , 2012 , 121, 475-490	1.8	16
88	Undrained Cyclic and Monotonic Strength of Sand-Silt Mixtures. <i>Geotechnical and Geological Engineering</i> , 2011 , 29, 555-570	1.5	16
87	Effect of frequency of cyclic loading on liquefaction and dynamic properties of saturated sand. <i>International Journal of Geotechnical Engineering</i> , 2016 , 10, 487-492	1.5	16
86	Probabilistic evaluation of seismic soil liquefaction potential based on SPT data. <i>Natural Hazards</i> , 2010 , 53, 547-560	3	15
85	Evaluation of spatial variation of peak horizontal acceleration and spectral acceleration for south India: a probabilistic approach. <i>Natural Hazards</i> , 2011 , 59, 639-653	3	14

84	Development of New Ground Motion Prediction Equation for the North and Central Himalayas Using Recorded Strong Motion Data. <i>Journal of Earthquake Engineering</i> , 2019 , 1-24	1.8	13
83	Stability analysis of rock-fill tailing dam: an Indian case study. <i>International Journal of Geotechnical Engineering</i> , 2017 , 11, 332-342	1.5	13
82	Geostatistical modelling of spatial and depth variability of SPT data for Bangalore. <i>Geomechanics and Geoengineering</i> , 2007 , 2, 307-316	1.4	12
81	Effect of Slope on p-y Curves for Laterally Loaded Piles in Soft Clay. <i>Geotechnical and Geological Engineering</i> , 2018 , 36, 1509-1524	1.5	12
80	Shock wave attenuation by geotextile encapsulated sand barrier systems. <i>Geotextiles and Geomembranes</i> , 2017 , 45, 149-160	5.2	11
79	Development of Non-dimension p-y Curves for Laterally Loaded Piles in Sloping Ground 2017 , 47, 47-56		11
78	Seismic Hazard Assessment and Land Use Analysis of Mangalore City, Karnataka, India. <i>Journal of Earthquake Engineering</i> , 2019 , 1-22	1.8	10
77	Laboratory scale investigation of stress wave propagation and vibrational characteristics in sand when subjected to air-blast loading. <i>International Journal of Impact Engineering</i> , 2018 , 114, 169-181	4	10
76	Liquefaction Hazard Mapping of Lucknow. <i>International Journal of Geotechnical Earthquake Engineering</i> , 2013 , 4, 17-41	0.2	10
75	Feasibility of creating a fresh water reservoir in the Arabian Sea impounding the flood waters of Netravathi River 2017 , 2, 38-42		10
74	Analysis of laterally loaded group of piles located on sloping ground. <i>International Journal of Geotechnical Engineering</i> , 2020 , 14, 580-588	1.5	10
73	Effects of base geogrid on geocell-reinforced foundation beds. <i>Geomechanics and Geoengineering</i> , 2006 , 1, 207-216	1.4	9
72	Delineation of seismic source zones based on seismicity parameters and probabilistic evaluation of seismic hazard using logic tree approach. <i>Journal of Earth System Science</i> , 2013 , 122, 661-676	1.8	8
71	Assessment of seismic hazard and liquefaction potential of Gujarat based on probabilistic approaches. <i>Natural Hazards</i> , 2013 , 65, 1179-1195	3	8
70	Modulus Ratio and Joint Factor Concepts to Predict Rock Mass Response. <i>Rock Mechanics and Rock Engineering</i> , 2017 , 50, 353-366	5.7	8
69	Coastal reservoir strategy to enhance India's freshwater storage by impounding river flood waters: a detailed overview. <i>Water Science and Technology: Water Supply</i> , 2019 , 19, 703-717	1.4	8
68	Experimental and numerical investigations on interference of closely spaced square footings on sand. <i>International Journal of Geotechnical Engineering</i> , 2020 , 14, 142-150	1.5	7
67	Model Tests and Analytical Studies on Performance of Areca Leaf Cells as Cellular Confinement in Soil. <i>Geomechanics and Geoengineering</i> , 2019 , 1-12	1.4	6

66	Seismic Zonations at Micro and Macro-Level for Regions in the Peninsular India. <i>International Journal of Geotechnical Earthquake Engineering</i> , 2016 , 7, 35-63	0.2	6
65	Strong Motion Data Based Regional Ground Motion Prediction Equations for North East India Based on Non-Linear Regression Models. <i>Journal of Earthquake Engineering</i> , 2020 , 1-21	1.8	6
64	Long-wavelength propagation of waves in jointed rocks - study using resonant column experiments and model material. <i>Geomechanics and Geoengineering</i> , 2016 , 11, 281-296	1.4	6
63	Pore pressure generation in silty sands during cyclic loading. <i>Geomechanics and Geoengineering</i> , 2007 , 2, 295-306	1.4	6
62	Geotechnical considerations for the concept of coastal reservoir at Mangaluru to impound the flood waters of Netravati River. <i>Marine Georesources and Geotechnology</i> , 2019 , 37, 236-244	2.2	6
61	Sand ejecta kinematics and impulse transfer associated with the buried blast loading: A controlled laboratory investigation. <i>International Journal of Impact Engineering</i> , 2017 , 104, 85-94	4	5
60	Long Wavelength Propagation of Elastic Waves Across Frictional and Filled Rock Joints with Different Orientations: Experimental Results. <i>Geotechnical and Geological Engineering</i> , 2015 , 33, 923-934	1.5	5
59	Transformations of Obliquely Striking Waves at a Rock Joint: Numerical Simulations. <i>International Journal of Geomechanics</i> , 2016 , 16, 04015079	3.1	5
58	Site specific design response spectrum proposed for the capital city of Agartala, Tripura. <i>Geomatics, Natural Hazards and Risk</i> , 2016 , 7, 1610-1630	3.6	5
57	Probabilistic Liquefaction Potential Evaluation for India and Adjoining Areas 2014 , 44, 269-277		5
56	Assessment of Seismically Induced Landslide Hazard for the State of Karnataka Using GIS Technique 2014 , 42, 73-89		5
55	Site Response Evaluation of Agartala City Using Geophysical and Geotechnical Data. <i>International Journal of Geotechnical Earthquake Engineering</i> , 2013 , 4, 53-73	0.2	5
54	Testing and evaluation of strength and deformation behaviour of jointed rocks. <i>Geomechanics and Geoengineering</i> , 2012 , 7, 149-158	1.4	5
53	Multiple source and attenuation relationships for evaluation of deterministic seismic hazard: logic tree approach considering local site effects. <i>Georisk</i> , 2011 , 5, 173-185	1.9	5
52	Spatial variability of SPT data using ordinary and disjunctive kriging. <i>Georisk</i> , 2010 , 4, 22-31	1.9	5
51	LIQUEFACTION AND PORE WATER PRESSURE GENERATION IN SAND IN CYCLIC STRAIN APPROACH. <i>Journal of Earthquake and Tsunami</i> , 2008 , 02, 227-240	1.1	5
50	Earthquake Hazard Assessment		5
49	Numerical Simulation of Explosion in Twin Tunnel System. <i>Geotechnical and Geological Engineering</i> , 2017 , 35, 1953-1966	1.5	4

48	A Case Study of Probabilistic Seismic Slope Stability Analysis of Rock Fill Tailing Dam. <i>International Journal of Geotechnical Earthquake Engineering</i> , 2019 , 10, 43-60	0.2	4
47	Effect of Aspect Ratio on the Monotonic Shear Behaviour: Micromechanical Interpretations. <i>Geotechnical and Geological Engineering</i> , 2013 , 31, 1543-1553	1.5	4
46	Optimization of bus allocation to depots by minimizing dead kilometers. <i>Journal of Advanced Transportation</i> , 2015 , 49, 901-912	1.9	4
45	A performance-based framework for assessing liquefaction potential based on CPT data. <i>Georisk</i> , 2012 , 6, 177-187	1.9	4
44	Synthesis of Linear JTFA-Based Response Spectra for Structural Response and Seismic Reduction Measures for North-East India. <i>Journal of Earthquake and Tsunami</i> , 2020 , 14, 2050023	1.1	4
43	Feasibility study on formation of fresh water reservoir and impounding the surface runoff for urban water survival in a coastal brackish water region of Kollam, India 2017 , 2, 34-37		4
42	Effect of aging on the leachate characteristics from municipal solid waste landfill. <i>Japanese Geotechnical Society Special Publication</i> , 2016 , 2, 1940-1945	0.2	4
41	Effect of Earthquake on a Single Pile Located in Sloping Ground. <i>International Journal of Geotechnical Earthquake Engineering</i> , 2016 , 7, 57-72	0.2	4
40	Estimation and spatial mapping of seismicity parameters in western Himalaya, central Himalaya and Indo-Gangetic plain. <i>Journal of Earth System Science</i> , 2019 , 128, 1	1.8	3
39	Resonant Column Tests and Nonlinear Elasticity in Simulated Rocks. <i>Rock Mechanics and Rock Engineering</i> , 2018 , 51, 155-172	5.7	3
38	Concept of a Geotechnical Solution to Address the Issues of Sea Water Intrusion in Ashtamudi Lake, Kerala. <i>Sustainable Civil Infrastructures</i> , 2019 , 238-246	0.2	3
37	Seismic Analysis of Municipal Solid Waste Landfill in India. <i>International Journal of Geotechnical Earthquake Engineering</i> , 2015 , 6, 35-55	0.2	3
36	Numerical Simulation of Reinforced Granular Soils Using DEM 2011 ,		3
35	Evaluation of Liquefaction Return Period for Bangalore Based on Standard Penetration Test Data: Performance Based Approach. <i>American Journal of Engineering and Applied Sciences</i> , 2009 , 2, 537-543	0.4	3
34	Seismic Behavior and Dynamic Site Response of Municipal Solid Waste Landfill in India. <i>Advances in Environmental Engineering and Green Technologies Book Series</i> , 168-196	0.4	3
33	Evaluation of Peak Ground Acceleration and Response Spectra Considering the Local Site Effects. <i>International Journal of Geotechnical Earthquake Engineering</i> , 2010 , 1, 25-41	0.2	3
32	Behaviour of Laterally Loaded Piles in Soft Clay on Sloping Ground. <i>Sustainable Civil Infrastructures</i> , 2018 , 149-163	0.2	3
31	Recent Advances in Soil Dynamics Relevant to Geotechnical Earthquake Engineering 2018 , 203-228		3

30	Preparing for Earthquakes: Lessons for India. <i>SpringerBriefs in Environmental Science</i> , 2018 ,	0.5	2
29	A Revisit to Seismic Hazard at Uttarakhand. <i>International Journal of Geotechnical Earthquake Engineering</i> , 2015 , 6, 56-73	0.2	2
28	Assessment of Liquefaction Potential Index Using Deterministic and Probabilistic Approaches. <i>International Journal of Geotechnical Earthquake Engineering</i> , 2012 , 3, 60-76	0.2	2
27	Applicability of Statistical Learning Algorithms for Spatial Variability of Rock Depth. <i>Mathematical Geosciences</i> , 2010 , 42, 433-446	2.5	2
26	Non-linear analysis of geomechanical problems using coupled finite and infinite elements. <i>Geotechnical and Geological Engineering</i> , 1998 , 16, 129-149	1.5	2
25	Failure Modes of Air Desaturated Sand in Undrained Cyclic Loading: A Systematic Experimental Investigation 2022 , 52, 249		2
24	Nepal Earthquake of April 25, 2015. <i>International Journal of Geotechnical Earthquake Engineering</i> , 2015 , 6, 81-90	0.2	2
23	An Overview of Natural Materials as Geocells and Their Performance Evaluation for Soil Reinforcement. <i>Springer Transactions in Civil and Environmental Engineering</i> , 2020 , 413-427	0.4	2
22	Granular Materials Under Shock and Blast Loading. <i>Springer Transactions in Civil and Environmental Engineering</i> , 2020 ,	0.4	2
21	Geo-electric assessment of the compacted sand-bentonite mixes. <i>International Journal of Geotechnical Engineering</i> , 2019 , 1-16	1.5	2
20	A systematic approach for the analyses and design of jointed rock mass slopes against wedge and toppling failures: a case study of the stability of the abutments of the bridge across the Chenab River. <i>International Journal of Geotechnical Engineering</i> , 2021 , 15, 15-27	1.5	2
19	Simplified approach to the analysis of a reinforced soil bed as a two-layer soil system. <i>Proceedings of the Institution of Civil Engineers: Ground Improvement</i> , 1998 , 2, 93-101	1	1
18	Appropriate Method of Determination of Coefficient of Consolidation for Municipal Solid Waste. <i>Geotechnical Testing Journal</i> , 2018 , 41, 20150251	1.3	1
17	Effect of Fines on Pore Pressure Development During Cyclic Loading. <i>Lecture Notes in Civil Engineering</i> , 2019 , 83-90	0.3	1
16	Appraisal of Thanneermukkom bund as a coastal reservoir in Kuttanad, Kerala. <i>Journal of Applied Water Engineering and Research</i> , 1-12	1.2	1
15	The Quintessence of 25 Years of Our Contributions to Geotechnical Earthquake Engineering 2021 , 51, 3-49		1
14	Probabilistic seismic hazard analysis of North and Central Himalayas using regional ground motion prediction equations. <i>Bulletin of Engineering Geology and the Environment</i> , 2021 , 80, 8137	4	1
13	Liquefaction Resistance and Cyclic Response of Air Injected-Desaturated Sandy Soil. <i>Geotechnical and Geological Engineering</i> , 1	1.5	1

12	The effect of spherical air blast on buried pipelines: a laboratory simulation study. <i>International Journal of Physical Modelling in Geotechnics</i> , 2018 , 18, 57-67	1
11	Geotechnical Investigations for Evaluating the Performance of the Misaligned MSE Wall: a Case Study. <i>Transportation Infrastructure Geotechnology</i> , 2018 , 5, 332-348	1.3
10	Seismic site characterization and ground response analysis for an offshore site. <i>Japanese Geotechnical Society Special Publication</i> , 2015 , 3, 1-6	0.2
9	Deterministic seismic hazard analysis of north and central Himalayas using region-specific ground motion prediction equations. <i>Journal of Earth System Science</i> , 2021 , 130, 1	1.8
8	Site response analysis of liquefiable soil employing continuous wavelet transform. <i>Geotechnique Letters</i> , 2022 , 12, 1-33	1.7
7	Dynamic Characterization and Site Response Studies for an Offshore Site Based on Detailed Geotechnical Tests. <i>International Journal of Geotechnical Earthquake Engineering</i> , 2015 , 6, 50-80	0.2
6	Geotechnical considerations for coastal reservoirs 2020 , 61-83	
5	Challenges and opportunities for coastal reservoir development in India 2020 , 185-197	
4	Geo-electrical characterization of physical and mechanical properties of zinc tailing. <i>Journal of Applied Geophysics</i> , 2021 , 188, 104315	1.7
3	Liquefaction Resistance of Desaturated and Partly Saturated Clean Sand. <i>Lecture Notes in Civil Engineering</i> , 2021 , 171-180	0.3
2	Seismic Hazard Assessment of Nuclear Power Plant Site in Jaitapur: Deterministic and Probabilistic Approaches. <i>Lecture Notes in Civil Engineering</i> , 2021 , 15-26	0.3
1	Wedge Failure Analysis of Slopes in Highly Jointed Rock Masses in the Zones of High Seismicity. <i>Indian Geotechnical Journal</i> , 1	