

Vinod, J S

List of Publications by Year in descending order

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331670

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53
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53
docs citations

53
times ranked

1119
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental and Numerical Study of Railway Ballast Behavior under Cyclic Loading. International Journal of Geomechanics, 2010, 10, 136-144.	2.7	239
2	Field Assessment of the Performance of a Ballasted Rail Track with and without Geosynthetics. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2010, 136, 907-917.	3.0	200
3	Behavior of Fresh and Fouled Railway Ballast Subjected to Direct Shear Testing: Discrete Element Simulation. International Journal of Geomechanics, 2014, 14, 34-44.	2.7	170
4	Shear and Compressibility Behavior of Sand-Tire Crumb Mixtures. Journal of Materials in Civil Engineering, 2013, 25, 1366-1374.	2.9	157
5	Probabilistic seismic hazard analysis for Bangalore. Natural Hazards, 2009, 48, 145-166.	3.4	106
6	Post-liquefaction undrained monotonic behaviour of sands: experiments and DEM simulations. Geotechnique, 2009, 59, 739-749.	4.0	104
7	The lateral displacement response of geogrid-reinforced ballast under cyclic loading. Geotextiles and Geomembranes, 2013, 39, 20-29.	4.6	103
8	Mechanisms of stabilization of expansive soil with lignosulfonate admixture. Transportation Geotechnics, 2018, 14, 81-92.	4.5	85
9	Estimating the Rate of Erosion of a Silty Sand Treated with Lignosulfonate. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2013, 139, 701-714.	3.0	82
10	Stabilisation of an erodible soil using a chemical admixture. Proceedings of the Institution of Civil Engineers: Ground Improvement, 2010, 163, 43-51.	1.0	72
11	Effect of Rubber Crumbs on the Cyclic Behavior of Steel Furnace Slag and Coal Wash Mixtures. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2018, 144, .	3.0	64
12	Effect of confining pressure and frequency on the deformation of ballast. Geotechnique, 2013, 63, 786-790.	4.0	61
13	Critical state behaviour of granular materials from isotropic and rebounded paths: DEM simulations. Granular Matter, 2009, 11, 33-42.	2.2	55
14	Semiempirical Cyclic Densification Model for Ballast Incorporating Particle Breakage. International Journal of Geomechanics, 2012, 12, 260-271.	2.7	49
15	Performance assessment of geogrid-reinforced railroad ballast during cyclic loading. Transportation Geotechnics, 2015, 2, 99-107.	4.5	47
16	The swelling behaviour of lignosulfonate-treated expansive soil. Proceedings of the Institution of Civil Engineers: Ground Improvement, 2016, 169, 182-193.	1.0	45
17	A laboratory investigation to assess the functioning of railway ballast with and without geogrids. Transportation Geotechnics, 2016, 6, 45-54.	4.5	40
18	Influence of particle breakage on the resilient modulus of railway ballast. Geotechnique, 2009, 59, 643-646.	4.0	34

#	ARTICLE	IF	CITATIONS
19	Evaluation of Shear Modulus and Damping Ratio of Granular Materials Using Discrete Element Approach. <i>Geotechnical and Geological Engineering</i> , 2010, 28, 591-601.	1.7	34
20	Application of Optical-Fiber Bragg Grating Sensors in Monitoring the Rail Track Deformations. <i>Geotechnical Testing Journal</i> , 2015, 38, 20140123.	1.0	29
21	Shear modulus of sand-tyre chip mixtures. <i>Environmental Geotechnics</i> , 2018, 5, 336-344.	2.3	26
22	Behavior of Steel Furnace Slag, Coal Wash, and Rubber Crumb Mixtures with Special Relevance to Stress-Dilatancy Relation. <i>Journal of Materials in Civil Engineering</i> , 2018, 30, .	2.9	23
23	Potential use of lignosulfonate for expansive soil stabilisation. <i>Environmental Geotechnics</i> , 2019, 6, 480-488.	2.3	23
24	Direct shear behavior of gravel-rubber mixtures: Discrete element modeling and microscopic investigations. <i>Soils and Foundations</i> , 2022, 62, 101156.	3.1	14
25	Determination of Coefficient of Radial Consolidation Using Steepest Tangent Fitting Method. <i>Geotechnical and Geological Engineering</i> , 2010, 28, 533-536.	1.7	13
26	Closure to "Effect of Rubber Crumbs on the Cyclic Behavior of Steel Furnace Slag and Coal Wash Mixtures" by Yujie Qi, Buddhima Indraratna, Ana Heitor, and Jayan S. Vinod. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2019, 145, .	3.0	12
27	Numerical simulation of liquefaction and pore pressure generation in granular materials using DEM. <i>International Journal of Geotechnical Engineering</i> , 2008, 2, 103-113.	2.0	10
28	The Influence of Rubber Crumbs on the Energy Absorbing Property of Waste Mixtures. <i>Lecture Notes in Civil Engineering</i> , 2019, , 271-281.	0.4	9
29	Stress-dilatancy behaviour of fouled ballast: experiments and DEM modelling. <i>Granular Matter</i> , 2021, 23, 1.	2.2	9
30	Internal Erosional Behaviour of Lignosulfonate Treated Dispersive Clay. , 2009, , .		9
31	Behaviour of ballast under principal stress rotation: Multi-laminate approach for moving loads. <i>Computers and Geotechnics</i> , 2020, 125, 103655.	4.7	7
32	Geotechnical characteristics of a Rubber Intermixed Ballast System. <i>Acta Geotechnica</i> , 2022, 17, 1847-1858.	5.7	7
33	A discrete element study on the deformation and degradation of coal-fouled ballast. <i>Acta Geotechnica</i> , 2022, 17, 3977-3993.	5.7	7
34	Deformation and degradation behaviour of Rubber Intermixed Ballast System under cyclic loading. <i>Engineering Geology</i> , 2022, 307, 106786.	6.3	7
35	LIQUEFACTION AND PORE WATER PRESSURE GENERATION IN SAND " A CYCLIC STRAIN APPROACH. <i>Journal of Earthquake and Tsunami</i> , 2008, 02, 227-240.	1.3	6
36	Modeling the Internal Erosion Behavior of Lignosulfonate Treated Soil. , 2013, , .		6

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37	Laboratory determination of coefficient of consolidation from pore water pressure measurement. <i>Geotechnique Letters</i> , 2015, 5, 294-298.	1.2	6
38	Ballast Breakage Analysis Using FBG Acoustic Emission Measurement System. <i>Geotechnical and Geological Engineering</i> , 2017, 35, 1239-1247.	1.7	6
39	Macro and microscale Engineering Response of Rigid-Soft Gravel-Rubber Inclusions: Insights from Detailed Laboratory and DEM Numerical Investigations. <i>Lecture Notes in Civil Engineering</i> , 2022, , 11-27.	0.4	5
40	Disturbed State Concept-Based Constitutive Model for Lignosulfonate-Treated Silty Sand. <i>International Journal of Geomechanics</i> , 2015, 15, .	2.7	4
41	Multilaminate Mathematical Framework for Analyzing the Deformation of Coarse Granular Materials. <i>International Journal of Geomechanics</i> , 2020, 20, .	2.7	4
42	Dem Simulations in Geotechnical Earthquake Engineering Education. <i>International Journal of Geotechnical Earthquake Engineering</i> , 2010, 1, 61-69.	0.6	4
43	Fibre optic acoustic emission measurement technique for crack activity monitoring in civil engineering applications. , 2016, , .		3
44	DEM Study on the Instability Behaviour of Granular Materials. <i>Geotechnical and Geological Engineering</i> , 2021, 39, 2175-2185.	1.7	3
45	A semi-empirical dilatancy model for ballast fouled with plastic fines. <i>Geomechanics and Geoengineering</i> , 2019, 14, 12-17.	1.8	2
46	The influence of rubber crumbs on the critical state behavior of waste mixtures. <i>E3S Web of Conferences</i> , 2019, 92, 06004.	0.5	1
47	Constitutive Modelling of the Deformation and Degradation of Railway Ballast Using Multi-laminate Framework. <i>Lecture Notes in Civil Engineering</i> , 2021, , 474-481.	0.4	0
48	Dynamic Properties of Sandy Soils at Large Shear Strains with Special Reference to the Influence of Non-Plastic Fines. <i>International Journal of Geotechnical Earthquake Engineering</i> , 2011, 2, 16-28.	0.6	0
49	Numerical Modeling of Cone Penetration Test: An LBMâ€“DEM Approach. <i>International Journal of Geomechanics</i> , 2022, 22, .	2.7	0