

# Vinod, J S

## List of Publications by Year in descending order

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49  
papers

2,005  
citations

331670

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53  
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53  
docs citations

53  
times ranked

1119  
citing authors

#	ARTICLE	IF	CITATIONS
1	Geotechnical characteristics of a Rubber Intermixed Ballast System. Acta Geotechnica, 2022, 17, 1847-1858.	5.7	7
2	Macro and microscale Engineering Response of Rigid-Soft Gravel-Rubber Inclusions: Insights from Detailed Laboratory and DEM Numerical Investigations. Lecture Notes in Civil Engineering, 2022, , 11-27.	0.4	5
3	A discrete element study on the deformation and degradation of coal-fouled ballast. Acta Geotechnica, 2022, 17, 3977-3993.	5.7	7
4	Direct shear behavior of gravel-rubber mixtures: Discrete element modeling and microscopic investigations. Soils and Foundations, 2022, 62, 101156.	3.1	14
5	Numerical Modeling of Cone Penetration Test: An LBMâ€“DEM Approach. International Journal of Geomechanics, 2022, 22, .	2.7	0
6	Deformation and degradation behaviour of Rubber Intermixed Ballast System under cyclic loading. Engineering Geology, 2022, 307, 106786.	6.3	7
7	DEM Study on the Instability Behaviour of Granular Materials. Geotechnical and Geological Engineering, 2021, 39, 2175-2185.	1.7	3
8	Stress-dilatancy behaviour of fouled ballast: experiments and DEM modelling. Granular Matter, 2021, 23, 1.	2.2	9
9	Constitutive Modelling of the Deformation and Degradation of Railway Ballast Using Multi-laminate Framework. Lecture Notes in Civil Engineering, 2021, , 474-481.	0.4	0
10	Multilaminate Mathematical Framework for Analyzing the Deformation of Coarse Granular Materials. International Journal of Geomechanics, 2020, 20, .	2.7	4
11	Behaviour of ballast under principal stress rotation: Multi-laminate approach for moving loads. Computers and Geotechnics, 2020, 125, 103655.	4.7	7
12	A semi-empirical dilatancy model for ballast fouled with plastic fines. Geomechanics and Geoengineering, 2019, 14, 12-17.	1.8	2
13	The influence of rubber crumbs on the critical state behavior of waste mixtures. E3S Web of Conferences, 2019, 92, 06004.	0.5	1
14	The Influence of Rubber Crumbs on the Energy Absorbing Property of Waste Mixtures. Lecture Notes in Civil Engineering, 2019, , 271-281.	0.4	9
15	Closure to â€œEffect of Rubber Crumbs on the Cyclic Behavior of Steel Furnace Slag and Coal Wash Mixturesâ€•by Yujie Qi, Buddhima Indraratna, Ana Heitor, and Jayan S. Vinod. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2019, 145, .	3.0	12
16	Potential use of lignosulfonate for expansive soil stabilisation. Environmental Geotechnics, 2019, 6, 480-488.	2.3	23
17	Shear modulus of sandâ€“tyre chip mixtures. Environmental Geotechnics, 2018, 5, 336-344.	2.3	26
18	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

#	ARTICLE	IF	CITATIONS
19	Mechanisms of stabilization of expansive soil with lignosulfonate admixture. <i>Transportation Geotechnics</i> , 2018, 14, 81-92.	4.5	85
20	Behavior of Steel Furnace Slag, Coal Wash, and Rubber Crumb Mixtures with Special Relevance to Stress-Strain Dilatancy Relation. <i>Journal of Materials in Civil Engineering</i> , 2018, 30, .	2.9	23
21	Ballast Breakage Analysis Using FBG Acoustic Emission Measurement System. <i>Geotechnical and Geological Engineering</i> , 2017, 35, 1239-1247.	1.7	6
22	A laboratory investigation to assess the functioning of railway ballast with and without geogrids. <i>Transportation Geotechnics</i> , 2016, 6, 45-54.	4.5	40
23	The swelling behaviour of lignosulfonate-treated expansive soil. <i>Proceedings of the Institution of Civil Engineers: Ground Improvement</i> , 2016, 169, 182-193.	1.0	45
24	Fibre optic acoustic emission measurement technique for crack activity monitoring in civil engineering applications. , 2016, , .		3
25	Laboratory determination of coefficient of consolidation from pore water pressure measurement. <i>Geotechnique Letters</i> , 2015, 5, 294-298.	1.2	6
26	Disturbed State Concept-Based Constitutive Model for Lignosulfonate-Treated Silty Sand. <i>International Journal of Geomechanics</i> , 2015, 15, .	2.7	4
27	Performance assessment of geogrid-reinforced railroad ballast during cyclic loading. <i>Transportation Geotechnics</i> , 2015, 2, 99-107.	4.5	47
28	Application of Optical-Fiber Bragg Grating Sensors in Monitoring the Rail Track Deformations. <i>Geotechnical Testing Journal</i> , 2015, 38, 20140123.	1.0	29
29	Behavior of Fresh and Fouled Railway Ballast Subjected to Direct Shear Testing: Discrete Element Simulation. <i>International Journal of Geomechanics</i> , 2014, 14, 34-44.	2.7	170
30	Estimating the Rate of Erosion of a Silty Sand Treated with Lignosulfonate. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2013, 139, 701-714.	3.0	82
31	Effect of confining pressure and frequency on the deformation of ballast. <i>Geotechnique</i> , 2013, 63, 786-790.	4.0	61
32	The lateral displacement response of geogrid-reinforced ballast under cyclic loading. <i>Geotextiles and Geomembranes</i> , 2013, 39, 20-29.	4.6	103
33	Modeling the Internal Erosion Behavior of Lignosulfonate Treated Soil. , 2013, , .		6
34	Shear and Compressibility Behavior of Sand-Tire Crumb Mixtures. <i>Journal of Materials in Civil Engineering</i> , 2013, 25, 1366-1374.	2.9	157
35	Semiempirical Cyclic Densification Model for Ballast Incorporating Particle Breakage. <i>International Journal of Geomechanics</i> , 2012, 12, 260-271.	2.7	49
36	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

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37	Evaluation of Shear Modulus and Damping Ratio of Granular Materials Using Discrete Element Approach. Geotechnical and Geological Engineering, 2010, 28, 591-601.	1.7	34
38	Determination of Coefficient of Radial Consolidation Using Steepest Tangent Fitting Method. Geotechnical and Geological Engineering, 2010, 28, 533-536.	1.7	13
39	Experimental and Numerical Study of Railway Ballast Behavior under Cyclic Loading. International Journal of Geomechanics, 2010, 10, 136-144.	2.7	239
40	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
41	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
42	Dem Simulations in Geotechnical Earthquake Engineering Education. International Journal of Geotechnical Earthquake Engineering, 2010, 1, 61-69.	0.6	4
43	Post-liquefaction undrained monotonic behaviour of sands: experiments and DEM simulations. Geotechnique, 2009, 59, 739-749.	4.0	104
44	Influence of particle breakage on the resilient modulus of railway ballast. Geotechnique, 2009, 59, 643-646.	4.0	34
45	Critical state behaviour of granular materials from isotropic and rebounded paths: DEM simulations. Granular Matter, 2009, 11, 33-42.	2.2	55
46	Probabilistic seismic hazard analysis for Bangalore. Natural Hazards, 2009, 48, 145-166.	3.4	106
47	Internal Erosional Behaviour of Lignosulfonate Treated Dispersive Clay. , 2009, , .		9
48	Numerical simulation of liquefaction and pore pressure generation in granular materials using DEM. International Journal of Geotechnical Engineering, 2008, 2, 103-113.	2.0	10
49	LIQUEFACTION AND PORE WATER PRESSURE GENERATION IN SAND – A CYCLIC STRAIN APPROACH. Journal of Earthquake and Tsunami, 2008, 02, 227-240.	1.3	6