

Cholachat Rujikiatkamjorn

List of Publications by Year in descending order

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142
papers

4,704
citations

81743

39
h-index

118652

62
g-index

146
all docs

146
docs citations

146
times ranked

1625
citing authors

#	ARTICLE	IF	CITATIONS
1	Advanced Rail Geotechnology - Ballasted Track. , 0, , .		212
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.	1.5	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.	1.3	170
4	DEM simulation of the behaviour of geogrid stabilised ballast fouled with coal. Computers and Geotechnics, 2014, 55, 224-231.	2.3	152
5	Analytical and Numerical Modeling of Soft Soil Stabilized by Prefabricated Vertical Drains Incorporating Vacuum Preloading. International Journal of Geomechanics, 2005, 5, 114-124.	1.3	148
6	Analytical and numerical solutions for a single vertical drain including the effects of vacuum preloading. Canadian Geotechnical Journal, 2005, 42, 994-1014.	1.4	140
7	Behavior of geogrid-reinforced ballast under various levels of fouling. Geotextiles and Geomembranes, 2011, 29, 313-322.	2.3	139
8	Radial consolidation of clay using compressibility indices and varying horizontal permeability. Canadian Geotechnical Journal, 2005, 42, 1330-1341.	1.4	121
9	Performance and Prediction of Vacuum Combined Surcharge Consolidation at Port of Brisbane. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2011, 137, 1009-1018.	1.5	113
10	Behaviour of clay-fouled ballast under drained triaxial testing. Geotechnique, 2013, 63, 410-419.	2.2	106
11	Assessing the Potential of Internal Erosion and Suffusion of Granular Soils. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2011, 137, 550-554.	1.5	104
12	Numerical Solution of Stone Columnâ€œImproved Soft Soil Considering Arching, Clogging, and Smear Effects. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2013, 139, 377-394.	1.5	102
13	Soft ground improvement via vertical drains and vacuum assisted preloading. Geotextiles and Geomembranes, 2012, 30, 16-23.	2.3	97
14	Coupled discrete elementâ€œfinite difference method for analysing the load-deformation behaviour of a single stone column in soft soil. Computers and Geotechnics, 2015, 63, 267-278.	2.3	97
15	The Role of Ballast-Fouling Characteristics on the Drainage Capacity of Rail Substructure. Geotechnical Testing Journal, 2012, 35, 629-640.	0.5	97
16	Deformation of Coal Fouled Ballast Stabilized with Geogrid under Cyclic Load. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2013, 139, 1275-1289.	1.5	96
17	2D and 3D Numerical Modeling of Combined Surcharge and Vacuum Preloading with Vertical Drains. International Journal of Geomechanics, 2008, 8, 144-156.	1.3	74
18	Automatic Classification of Ground-Penetrating-Radar Signals for Railway-Ballast Assessment. IEEE Transactions on Geoscience and Remote Sensing, 2011, 49, 3961-3972.	2.7	74

#	ARTICLE	IF	CITATIONS
19	Geometrical Method for Evaluating the Internal Instability of Granular Filters Based on Constriction Size Distribution. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2015, 141, .	1.5	72
20	A theoretical and experimental study on the behaviour of lignosulfonate-treated sandy silt. Computers and Geotechnics, 2014, 61, 316-327.	2.3	71
21	Large-Strain Vacuum-Assisted Consolidation with Non-Darcian Radial Flow Incorporating Varying Permeability and Compressibility. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2017, 143, .	1.5	65
22	Analytical solutions and design curves for vacuum-assisted consolidation with both vertical and horizontal drainage. Canadian Geotechnical Journal, 2007, 44, 188-200.	1.4	64
23	A new parameter for classification and evaluation of railway ballast fouling. Canadian Geotechnical Journal, 2011, 48, 322-326.	1.4	64
24	Analytical Solutions for a Single Vertical Drain with Vacuum and Time-Dependent Surcharge Preloading in Membrane and Membraneless Systems. International Journal of Geomechanics, 2012, 12, 27-42.	1.3	62
25	Discrete element modelling of lateral displacement of a granular assembly under cyclic loading. Computers and Geotechnics, 2015, 69, 474-484.	2.3	57
26	Experimental and Discrete Element Modeling of Geocell-Stabilized Subballast Subjected to Cyclic Loading. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2016, 142, .	1.5	55
27	Laboratory study of small-strain behavior of a compacted silty sand. Canadian Geotechnical Journal, 2013, 50, 179-188.	1.4	53
28	From theory to practice in track geomechanics – Australian perspective for synthetic inclusions. Transportation Geotechnics, 2014, 1, 171-187.	2.0	49
29	Modelling geogrid-reinforced railway ballast using the discrete element method. Transportation Geotechnics, 2016, 8, 86-102.	2.0	49
30	Micromechanics-Based Investigation of Fouled Ballast Using Large-Scale Triaxial Tests and Discrete Element Modeling. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2017, 143, .	1.5	49
31	Analysis of Soil Disturbance Associated with Mandrel-Driven Prefabricated Vertical Drains Using an Elliptical Cavity Expansion Theory. International Journal of Geomechanics, 2010, 10, 53-64.	1.3	48
32	Vertical drain consolidation with non-Darcian flow and void-ratio-dependent compressibility and permeability. Geotechnique, 2012, 62, 985-997.	2.2	48
33	Numerical modelling of soft soil stabilized by vertical drains, combining surcharge and vacuum preloading for a storage yard. Canadian Geotechnical Journal, 2007, 44, 326-342.	1.4	47
34	Prediction of the Behavior of Soft Estuarine Soil Foundation Stabilized by Short Vertical Drains beneath a Rail Track. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2010, 136, 686-696.	1.5	45
35	Simulation Ballasted Track Behavior: Numerical Treatment and Field Application. International Journal of Geomechanics, 2017, 17, .	1.3	44
36	Modeling the Stone Column Behavior in Soft Ground with Special Emphasis on Lateral Deformation. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2017, 143, .	1.5	43

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37	Modeling the Performance of Stone Columnâ€“Reinforced Soft Ground under Static and Cyclic Loads. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2016, 142, .	1.5	42
38	Evaluation of Smear Zone Extent Surrounding Mandrel Driven Vertical Drains Using the Cavity Expansion Theory. International Journal of Geomechanics, 2008, 8, 355-365.	1.3	41
39	Effectiveness of partially penetrating vertical drains under a combined surcharge and vacuum preloading. Canadian Geotechnical Journal, 2011, 48, 970-983.	1.4	41
40	Analytical solution and numerical simulation of vacuum consolidation by vertical drains beneath circular embankments. Computers and Geotechnics, 2016, 80, 83-96.	2.3	41
41	Experimental Investigation on Effectiveness of a Vertical Drain under Cyclic Loads. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2009, 135, 835-839.	1.5	40
42	Hydraulic conductivity of saturated granular soils determined using a constriction-based technique. Canadian Geotechnical Journal, 2012, 49, 607-613.	1.4	40
43	Model track studies on fouled ballast using ground penetrating radar and multichannel analysis of surface wave. Journal of Applied Geophysics, 2011, 74, 175-184.	0.9	38
44	Use of Geogrids and Recycled Rubber in Railroad Infrastructure for Enhanced Performance. Geosciences (Switzerland), 2019, 9, 30.	1.0	37
45	Optimisation of coal washâ€“slag blend as a structural fill. Proceedings of the Institution of Civil Engineers: Ground Improvement, 2015, 168, 33-44.	0.7	35
46	Soft soil foundation improved by vacuum and surcharge loading. Proceedings of the Institution of Civil Engineers: Ground Improvement, 2012, 165, 87-96.	0.7	34
47	Stabilization of track substructure with geo-inclusionsâ€“experimental evidence and DEM simulation. International Journal of Rail Transportation, 2017, 5, 63-86.	1.8	34
48	Stone Columnâ€“Stabilized Soft-Soil Performance Influenced by Clogging and Lateral Deformation: Laboratory and Numerical Evaluation. International Journal of Geomechanics, 2018, 18, .	1.3	34
49	Analytical and Numerical Modeling of Consolidation by Vertical Drain beneath a Circular Embankment. International Journal of Geomechanics, 2008, 8, 199-206.	1.3	33
50	Radial consolidation model incorporating the effects of vacuum preloading and non-Darcian flow. Geotechnique, 2013, 63, 1060-1073.	2.2	33
51	A Laboratory Study on the Shear Behavior of Mixtures of Coal Wash and Steel Furnace Slag as Potential Structural Fill. Geotechnical Testing Journal, 2015, 38, 20140047.	0.5	33
52	Analytical solution for radial consolidation considering soil structure characteristics. Canadian Geotechnical Journal, 2015, 52, 947-960.	1.4	32
53	Soil disturbance analysis due to vertical drain installation. Proceedings of the Institution of Civil Engineers: Geotechnical Engineering, 2015, 168, 236-246.	0.9	31
54	Design procedure for vertical drains considering a linear variation of lateral permeability within the smear zone. Canadian Geotechnical Journal, 2009, 46, 270-280.	1.4	29

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55	Radial consolidation of soft soil under cyclic loads. <i>Computers and Geotechnics</i> , 2013, 50, 1-5.	2.3	29
56	Conceptual model describing smear zone caused by mandrel action. <i>Geotechnique</i> , 2013, 63, 1377-1388.	2.2	29
57	A study of the geogrid-subballast interface via experimental evaluation and discrete element modelling. <i>Granular Matter</i> , 2017, 19, 1.	1.1	29
58	Final state of soils under vacuum preloading. <i>Canadian Geotechnical Journal</i> , 2012, 49, 729-739.	1.4	27
59	Experimental simulation and mathematical modelling of clogging in stone column. <i>Canadian Geotechnical Journal</i> , 2018, 55, 427-436.	1.4	27
60	Laboratory Investigation of the Seepage Induced Response of Granular Soils Under Static and Cyclic Loading. <i>Geotechnical Testing Journal</i> , 2016, 39, 20150288.	0.5	27
61	Sustainable soil improvement via vacuum preloading. <i>Proceedings of the Institution of Civil Engineers: Ground Improvement</i> , 2010, 163, 31-42.	0.7	26
62	Compaction of coal wash to optimise its utilisation as water-front reclamation fill. <i>Geomechanics and Geoengineering</i> , 2013, 8, 36-45.	0.9	26
63	Drained and Undrained Shear Behavior of Compacted Coal Wash. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2016, 142, .	1.5	25
64	Analytical model for vacuum consolidation incorporating soil disturbance caused by mandrel-driven drains. <i>Canadian Geotechnical Journal</i> , 2017, 54, 547-560.	1.4	25
65	Class A and C predictions for Ballina trial embankment with vertical drains using standard test data from industry and large diameter test specimens. <i>Computers and Geotechnics</i> , 2018, 93, 232-246.	2.3	25
66	Laboratory and Finite-Element Investigation of Soil Disturbance Associated with the Installation of Mandrel-Driven Prefabricated Vertical Drains. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2012, 138, 295-308.	1.5	24
67	Model Test and Theoretical Analysis for Soft Soil Foundations Improved by Prefabricated Vertical Drains. <i>International Journal of Geomechanics</i> , 2017, 17, .	1.3	24
68	Using a seismic survey to measure the shear modulus of clean and fouled ballast. <i>Geomechanics and Geoengineering</i> , 2010, 5, 117-126.	0.9	23
69	Performance of marine clay stabilised with vacuum pressure: Based on Queensland experience. <i>Journal of Rock Mechanics and Geotechnical Engineering</i> , 2019, 11, 598-611.	3.7	23
70	Influence of biodegradable natural fibre drains on the radial consolidation of soft soil. <i>Computers and Geotechnics</i> , 2016, 78, 171-180.	2.3	22
71	Improved performance of ballasted tracks under impact loading by recycled rubber mats. <i>Transportation Geotechnics</i> , 2019, 20, 100239.	2.0	22
72	Shear strength of a vegetated soil incorporating both root reinforcement and suction. <i>Transportation Geotechnics</i> , 2019, 18, 72-82.	2.0	21

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73	Review of methods of analysis for the use of vacuum preloading and vertical drains for soft clay improvement. <i>Geomechanics and Geoengineering</i> , 2010, 5, 223-236.	0.9	20
74	Compaction, degradation and deformation characteristics of an energy absorbing matrix. <i>Transportation Geotechnics</i> , 2019, 19, 74-83.	2.0	20
75	Numerical analysis of bearing reinforcement earth (BRE) wall. <i>Geotextiles and Geomembranes</i> , 2012, 32, 28-37.	2.3	19
76	Analysis of the Behaviour of Stone Column Stabilized Soft Ground Supporting Transport Infrastructure. <i>Procedia Engineering</i> , 2016, 143, 347-354.	1.2	19
77	Improved Performance of Ballasted Rail Tracks Using Plastics and Rubber Inclusions. <i>Procedia Engineering</i> , 2017, 189, 207-214.	1.2	19
78	Improved performance of geosynthetics enhanced ballast: laboratory and numerical studies. <i>Proceedings of the Institution of Civil Engineers: Ground Improvement</i> , 2018, 171, 202-222.	0.7	19
79	Current research into ballasted rail tracks: model tests and their practical implications. <i>Australian Journal of Structural Engineering</i> , 2017, 18, 204-220.	0.4	16
80	Track Stabilisation with Geosynthetics and Geodrains, and Performance Verification through Field Monitoring and Numerical Modelling. <i>International Journal of Railway Technology</i> , 2012, 1, 195-219.	0.3	15
81	Radial consolidation characteristics of soft undisturbed clay based on large specimens. <i>Journal of Rock Mechanics and Geotechnical Engineering</i> , 2018, 10, 1037-1045.	3.7	14
82	Automatic classification of GPR signals. , 2010, , .		13
83	Radial consolidation response upon the application and removal of vacuum and fill loading. <i>Canadian Geotechnical Journal</i> , 2015, 52, 2156-2162.	1.4	13
84	Analytical Solutions for Filtration Process Based on Constriction Size Concept. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2013, 139, 1049-1061.	1.5	12
85	Laboratory Evaluation of Coefficient of Radial Consolidation Based on Pore-Water-Pressure Dissipation and Settlement. <i>Geotechnical Testing Journal</i> , 2013, 36, 20120032.	0.5	11
86	Radial consolidation modelling incorporating the effect of a smear zone for a multilayer soil with downdrag caused by mandrel action. <i>Canadian Geotechnical Journal</i> , 2010, 47, 1024-1035.	1.4	10
87	The role of compaction energy on the small strain properties of a compacted silty sand subjected to drying-wetting cycles. <i>Geotechnique</i> , 2015, 65, 717-727.	2.2	10
88	Influence of Particle Gradation and Shape on the Performance of Stone Columns in Soft Clay. <i>Geotechnical Testing Journal</i> , 2018, 41, 1076-1091.	0.5	9
89	Effects of Partially Penetrating Prefabricated Vertical Drains and Loading Patterns on Vacuum Consolidation. , 2008, , .		7
90	Characterization of Compacted Coal Wash As Structural Fill Material. , 2012, , .		7

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91	Consolidation of Estuarine Marine Clays for Coastal Reclamation Using Vacuum and Surcharge Loading. , 2014, , .		7
92	Geotechnical characteristics of a Rubber Intermixed Ballast System. Acta Geotechnica, 2022, 17, 1847-1858.	2.9	7
93	Pore pressure based method to quantify smear around a vertical drain. Geotechnique Letters, 2016, 6, 211-215.	0.6	6
94	An Analytical Model of PVD-assisted Soft Ground Consolidation. Procedia Engineering, 2016, 143, 1376-1383.	1.2	6
95	Behaviour of lignosulfonate-treated soil under cyclic loading. Proceedings of the Institution of Civil Engineers: Ground Improvement, 2016, 169, 109-119.	0.7	6
96	An Evaluation of Fouled Ballast in a Laboratory Model Track Using Ground Penetrating Radar. Geotechnical Testing Journal, 2010, 33, 343-350.	0.5	6
97	Soft Soil Foundation Improved by Vacuum and Surcharge Preloading at Ballina Bypass, Australia. , 2009, , .		6
98	Stabilization of Ballasted Rail Tracks and Underlying Soft Formation Soils with Geosynthetic Grids and Drains. , 2006, , 143.		5
99	Use of Geosynthetics in Railways Including Geocomposites and Vertical Drains. , 2011, , .		5
100	Discussion of "Assessing the Potential of Internal Erosion and Suffusion of Granular Soils" by Buddhima Indraratna, Vo Trong Nguyen, and Cholachat Rujikiatkamjorn. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2012, 138, 772-773.	1.5	5
101	Performance Monitoring of Rail Tracks Stabilized by Geosynthetics and Shock Mats: Case Studies at Bulli and Singleton in Australia. , 2013, , .		5
102	Shear behaviour of subgrade soil with reference to varying initial shear stress and plasticity index. Acta Geotechnica, 2022, 17, 4207-4216.	2.9	5
103	Three-Dimensional Numerical Modeling of Soft Soil Consolidation Improved by Prefabricated Vertical Drains. , 2006, , 161.		4
104	Environmental Sustainability of Soft Soil Improvement via Vacuum and Surcharge Preloading. , 2014, , .		4
105	Foundation behaviour below an embankment on soft soils. Proceedings of the Institution of Civil Engineers: Geotechnical Engineering, 2008, 161, 259-267.	0.9	3
106	Discussion of "Assessing the Potential of Internal Erosion and Suffusion of Granular Soils" by Buddhima Indraratna, Vo Trong Nguyen, and Cholachat Rujikiatkamjorn. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2012, 138, 773-775.	1.5	3
107	Performance Improvement of Railway Ballast Using Shock Mats and Synthetic Grids. , 2012, , .		3
108	Analysis of Radial Vacuum-Assisted Consolidation Using 3D Finite Element Method. , 2007, , .		2

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109	Analytical solutions for a single vertical drain with time-dependent vacuum combined surcharge preloading in membrane and membraneless systems. IOP Conference Series: Materials Science and Engineering, 2010, 10, 012117.	0.3	2
110	Nonlinear Analysis for a Single Vertical Drain Including the Effects of Preloading Considering the Compressibility and Permeability of the Soil. , 2010, , .		2
111	Ground Improvement at the Port of Brisbane, Australia Using Vertical Drains and Vacuum Assisted Preloading. , 2013, , .		2
112	Aspects Related to the Small Strain Shear Modulus Behavior of Compacted Soils Subjected to Wetting and Drying. , 2014, , .		2
113	Briefing: Effect of drain installation patterns on rate of consolidation. Proceedings of the Institution of Civil Engineers: Ground Improvement, 2015, 168, 236-245.	0.7	2
114	Small Strain Behaviour of a Compacted Subgrade Soil. Procedia Engineering, 2016, 143, 260-267.	1.2	2
115	Closure to "Modeling the Stone Column Behavior in Soft Ground with Special Emphasis on Lateral Deformation" by Sudip Basack, Buddhima Indraratna, Cholachat Rujikiatkamjorn, and Firman Siahaan. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2018, 144, 07018008.	1.5	2
116	DEM MODELLING OF GEOCELL-STABILISED SUB-BALLAST UNDER CYCLIC LOADING. International Journal of GEOMATE, 2017, 12, .	0.1	2
117	Deformation and Degradation of Clay fouled Ballast Subjected to Monotonic Loading. , 2012, , .		2
118	Compaction Of Coal Wash As Reclamation Fill. , 2013, , .		2
119	Soft Clay Stabilization with Geosynthetic Vertical Drains beneath Road and Railway Embankments: A Critical Review of Analytical Solutions and Numerical Analysis. , 2007, , .		1
120	Investigation on effectiveness of a prefabricated vertical drain during cyclic loading. IOP Conference Series: Materials Science and Engineering, 2010, 10, 012091.	0.3	1
121	Consolidation of Ground with Prefabricated Vertical Drains Combined with Time-Dependent Surcharge Loading in Membrane System. , 2012, , .		1
122	Closure to "Assessing the Potential of Internal Erosion and Suffusion of Granular Soils" by Buddhima Indraratna, Vo Trong Nguyen, and Cholachat Rujikiatkamjorn. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2012, 138, 775-775.	1.5	1
123	3D Numerical Modeling of Hexagonal Wire Mesh Reinforced Embankment on Soft Bangkok Clay. , 2012, , .		1
124	Reply to the discussion by Wang and Dallo on "Hydraulic conductivity of saturated granular soils determined using a constriction-based technique". Appears in the Canadian Geotechnical Journal, 49(10): 1221-1222 [doi:10.1139/t2012-078]. Canadian Geotechnical Journal, 2012, 49, 1223-1224.	1.4	1
125	Analytical Solutions for Filtration Process Based on the Constriction Size Concept. , 2014, , .		1
126	Characterization of Smear Zone Caused by Mandrel Action. , 2015, , .		1

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127	Study on the Interface Behavior of a Geosynthetics-Reinforced Fouled Ballast Using the Discrete Element Method. , 2016, , .		1
128	Soft Ground Improvementâ€™Theoretical, Experimental, Numerical and Field Studies. Developments in Geotechnical Engineering, 2019, , 183-216.	0.6	1
129	Simulation of Fresh and Fouled Ballast Behavior using Discrete Element Method. , 2012, , .		1
130	Modelling of soft ground consolidation via combined surcharge and vacuum preloading. , 2008, , 43-53.		1
131	Use of the Soil Modulus for Compaction Control of Compacted Soils. , 2012, , .		1
132	Improvement of Soft Clays Using Vacuum-Assisted Consolidation Method. , 2006, , 1.		0
133	Reply to the discussion by T.A. Tran and T. Mitachi on "Analytical and numerical solutions for a single vertical drain including the effects of vacuum preloading". Canadian Geotechnical Journal, 2006, 43, 1404-1405.	1.4	0
134	Consolidation of Ground with Partially Penetrated PVDs Combined with Vacuum Preloading. , 2011, , .		0
135	Closure to â€™Deformation of Coal Fouled Ballast Stabilized with Geogrid under Cyclic Loadâ€™by Buddhima Indraratna, Ngoc Trung Ngo, and Cholachat Rujikiatkamjorn. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2014, 140, 07014011.	1.5	0
136	Ground Improvement for Rail, Port and Road Infrastructure--From Theory to Practice. , 2014, , .		0
137	Effect of the Level of Compaction on the Internal Erosion Potential for Granular Soils. , 2017, , .		0
138	Closure to â€™Micromechanics-Based Investigation of Fouled Ballast Using Large-Scale Triaxial Tests and Discrete Element Modelingâ€™by Ngoc Trung Ngo, Buddhima Indraratna, and Cholachat Rujikiatkamjorn. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2017, 143, 07017027.	1.5	0
139	Finite element simulation of mandrel penetration in a normally consolidated soil. , 2008, , 287-292.		0
140	PHYSICAL AND CHEMICAL GROUND IMPROVEMENT FOR SUSTAINABLE TRANSPORTATION INFRASTRUCTURE UNDER CYCLIC LOADS. , 2011, , .		0
141	Evaluating Coefficient Of Radial Consolidation Using Modified Rowe Cell. , 2013, , .		0
142	Effects Of Fouling On The Stressâ€™Strainâ€™Degradation Behaviour Of Rail Ballast. , 2013, , .		0