

Cholachat Rujikiatkamjorn

List of Publications by Year in Descending Order

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Version: 2024-04-23

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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.

132
papers

3,524
citations

33
h-index

54
g-index

146
ext. papers

4,035
ext. citations

3
avg, IF

5.72
L-index

#	Paper	IF	Citations
132	Improved performance of ballasted tracks under impact loading by recycled rubber mats. <i>Transportation Geotechnics</i> , 2019 , 20, 100239	4	16
131	Compaction, degradation and deformation characteristics of an energy absorbing matrix. <i>Transportation Geotechnics</i> , 2019 , 19, 74-83	4	16
130	Soft Ground Improvement—Theoretical, Experimental, Numerical and Field Studies. <i>Developments in Geotechnical Engineering</i> , 2019 , 183-216	0.4	1
129	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	5.3	14
128	Shear strength of a vegetated soil incorporating both root reinforcement and suction. <i>Transportation Geotechnics</i> , 2019 , 18, 72-82	4	10
127	Use of Geogrids and Recycled Rubber in Railroad Infrastructure for Enhanced Performance. <i>Geosciences (Switzerland)</i> , 2019 , 9, 30	2.7	24
126	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	1	12
125	Stone Column—Stabilized Soft-Soil Performance Influenced by Clogging and Lateral Deformation: Laboratory and Numerical Evaluation. <i>International Journal of Geomechanics</i> , 2018 , 18, 04018058	3.1	20
124	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. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2018 , 144, 07018008	3.4	2
123	Experimental simulation and mathematical modelling of clogging in stone column. <i>Canadian Geotechnical Journal</i> , 2018 , 55, 427-436	3.2	18
122	Radial consolidation characteristics of soft undisturbed clay based on large specimens. <i>Journal of Rock Mechanics and Geotechnical Engineering</i> , 2018 , 10, 1037-1045	5.3	8
121	Influence of Particle Gradation and Shape on the Performance of Stone Columns in Soft Clay. <i>Geotechnical Testing Journal</i> , 2018 , 41, 20160234	1.3	5
120	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	4.4	17
119	Model Test and Theoretical Analysis for Soft Soil Foundations Improved by Prefabricated Vertical Drains. <i>International Journal of Geomechanics</i> , 2017 , 17, 04016045	3.1	15
118	Stabilization of track substructure with geo-inclusions—Experimental evidence and DEM simulation. <i>International Journal of Rail Transportation</i> , 2017 , 5, 63-86	2.1	28
117	Modeling the Stone Column Behavior in Soft Ground with Special Emphasis on Lateral Deformation. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2017 , 143, 04017016	3.4	25
116	Improved Performance of Ballasted Rail Tracks Using Plastics and Rubber Inclusions. <i>Procedia Engineering</i> , 2017 , 189, 207-214		14

115	Closure to Micromechanics-Based Investigation of Fouled Ballast Using Large-Scale Triaxial Tests and Discrete Element Modeling by Ngoc Trung Ngo, Buddhima Indraratna, and Cholachat Rujikiatkamjorn. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2017 , 143, 07017027	3.4	
114	Current research into ballasted rail tracks: model tests and their practical implications. <i>Australian Journal of Structural Engineering</i> , 2017 , 18, 204-220	1.4	14
113	A study of the geogrid-subballast interface via experimental evaluation and discrete element modelling. <i>Granular Matter</i> , 2017 , 19, 1	2.6	23
112	Micromechanics-Based Investigation of Fouled Ballast Using Large-Scale Triaxial Tests and Discrete Element Modeling. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2017 , 143, 04016088	3.4	35
111	Analytical model for vacuum consolidation incorporating soil disturbance caused by mandrel-driven drains. <i>Canadian Geotechnical Journal</i> , 2017 , 54, 547-560	3.2	16
110	Simulation Ballasted Track Behavior: Numerical Treatment and Field Application. <i>International Journal of Geomechanics</i> , 2017 , 17, 04016130	3.1	38
109	Large-Strain Vacuum-Assisted Consolidation with Non-Darcian Radial Flow Incorporating Varying Permeability and Compressibility. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2017 , 143, 04016088	3.4	38
108	DEM MODELLING OF GEOCELL-STABILISED SUB-BALLAST UNDER CYCLIC LOADING. <i>International Journal of GEOMATE</i> , 2017 , 12,	1.6	2
107	Modeling the Performance of Stone Column Reinforced Soft Ground under Static and Cyclic Loads. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2016 , 142, 04015067	3.4	27
106	Study on the Interface Behavior of a Geosynthetics-Reinforced Fouled Ballast Using the Discrete Element Method 2016 ,		1
105	Behaviour of lignosulfonate-treated soil under cyclic loading. <i>Proceedings of the Institution of Civil Engineers: Ground Improvement</i> , 2016 , 169, 109-119	1	6
104	Analysis of the Behaviour of Stone Column Stabilized Soft Ground Supporting Transport Infrastructure. <i>Procedia Engineering</i> , 2016 , 143, 347-354		11
103	Influence of biodegradable natural fibre drains on the radial consolidation of soft soil. <i>Computers and Geotechnics</i> , 2016 , 78, 171-180	4.4	11
102	Drained and Undrained Shear Behavior of Compacted Coal Wash. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2016 , 142, 04016006	3.4	18
101	Experimental and Discrete Element Modeling of Geocell-Stabilized Subballast Subjected to Cyclic Loading. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2016 , 142, 04015100	3.4	46
100	Laboratory Investigation of the Seepage Induced Response of Granular Soils Under Static and Cyclic Loading. <i>Geotechnical Testing Journal</i> , 2016 , 39, 20150288	1.3	19
99	Analytical solution and numerical simulation of vacuum consolidation by vertical drains beneath circular embankments. <i>Computers and Geotechnics</i> , 2016 , 80, 83-96	4.4	27
98	Modelling geogrid-reinforced railway ballast using the discrete element method. <i>Transportation Geotechnics</i> , 2016 , 8, 86-102	4	39

97	Small Strain Behaviour of a Compacted Subgrade Soil. <i>Procedia Engineering</i> , 2016 , 143, 260-267		2
96	Pore pressure based method to quantify smear around a vertical drain. <i>Geotechnique Letters</i> , 2016 , 6, 211-215	1.7	5
95	An Analytical Model of PVD-assisted Soft Ground Consolidation. <i>Procedia Engineering</i> , 2016 , 143, 1376-1383		6
94	Soil disturbance analysis due to vertical drain installation. <i>Proceedings of the Institution of Civil Engineers: Geotechnical Engineering</i> , 2015 , 168, 236-246	0.9	24
93	Geometrical Method for Evaluating the Internal Instability of Granular Filters Based on Constriction Size Distribution. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2015 , 141, 04015045	3.4	46
92	Discrete element modelling of lateral displacement of a granular assembly under cyclic loading. <i>Computers and Geotechnics</i> , 2015 , 69, 474-484	4.4	44
91	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	3.4	8
90	Radial consolidation response upon the application and removal of vacuum and fill loading. <i>Canadian Geotechnical Journal</i> , 2015 , 52, 2156-2162	3.2	10
89	Coupled discrete element/finite difference method for analysing the load-deformation behaviour of a single stone column in soft soil. <i>Computers and Geotechnics</i> , 2015 , 63, 267-278	4.4	80
88	Characterization of Smear Zone Caused by Mandrel Action 2015 ,		1
87	Briefing: Effect of drain installation patterns on rate of consolidation. <i>Proceedings of the Institution of Civil Engineers: Ground Improvement</i> , 2015 , 168, 236-245	1	1
86	Optimisation of coal washslag blend as a structural fill. <i>Proceedings of the Institution of Civil Engineers: Ground Improvement</i> , 2015 , 168, 33-44	1	26
85	Analytical solution for radial consolidation considering soil structure characteristics. <i>Canadian Geotechnical Journal</i> , 2015 , 52, 947-960	3.2	26
84	A Laboratory Study on the Shear Behavior of Mixtures of Coal Wash and Steel Furnace Slag as Potential Structural Fill. <i>Geotechnical Testing Journal</i> , 2015 , 38, 20140047	1.3	26
83	DEM simulation of the behaviour of geogrid stabilised ballast fouled with coal. <i>Computers and Geotechnics</i> , 2014 , 55, 224-231	4.4	127
82	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	3.1	133
81	A theoretical and experimental study on the behaviour of lignosulfonate-treated sandy silt. <i>Computers and Geotechnics</i> , 2014 , 61, 316-327	4.4	58
80	Environmental Sustainability of Soft Soil Improvement via Vacuum and Surcharge Preloading 2014 ,		3

79	Analytical Solutions for Filtration Process Based on the Constriction Size Concept 2014 ,		1
78	From theory to practice in track geomechanics [Australian perspective for synthetic inclusions. <i>Transportation Geotechnics</i> , 2014 , 1, 171-187	4	42
77	Aspects Related to the Small Strain Shear Modulus Behavior of Compacted Soils Subjected to Wetting and Drying 2014 ,		2
76	Consolidation of Estuarine Marine Clays for Coastal Reclamation Using Vacuum and Surcharge Loading 2014 ,		7
75	Closure to Deformation of Coal Fouled Ballast Stabilized with Geogrid under Cyclic Load by Buddhima Indraratna, Ngoc Trung Ngo, and Cholachat Rujikiatkamjorn. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2014 , 140, 07014011	3-4	
74	Laboratory study of small-strain behavior of a compacted silty sand. <i>Canadian Geotechnical Journal</i> , 2013 , 50, 179-188	3-2	41
73	Numerical Solution of Stone Column Improved Soft Soil Considering Arching, Clogging, and Smear Effects. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2013 , 139, 377-394	3-4	72
72	Behaviour of clay-fouled ballast under drained triaxial testing. <i>Geotechnique</i> , 2013 , 63, 410-419	3-4	82
71	Compaction of coal wash to optimise its utilisation as water-front reclamation fill. <i>Geomechanics and Geoengineering</i> , 2013 , 8, 36-45	1-4	19
70	Deformation of Coal Fouled Ballast Stabilized with Geogrid under Cyclic Load. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2013 , 139, 1275-1289	3-4	83
69	Radial consolidation model incorporating the effects of vacuum preloading and non-Darcian flow. <i>Geotechnique</i> , 2013 , 63, 1060-1073	3-4	27
68	Radial consolidation of soft soil under cyclic loads. <i>Computers and Geotechnics</i> , 2013 , 50, 1-5	4-4	20
67	Performance Monitoring of Rail Tracks Stabilized by Geosynthetics and Shock Mats: Case Studies at Bulli and Singleton in Australia 2013 ,		4
66	Conceptual model describing smear zone caused by mandrel action. <i>Geotechnique</i> , 2013 , 63, 1377-1388	3-4	21
65	Ground Improvement at the Port of Brisbane, Australia Using Vertical Drains and Vacuum Assisted Preloading 2013 ,		1
64	Analytical Solutions for Filtration Process Based on Constriction Size Concept. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2013 , 139, 1049-1061	3-4	7
63	Laboratory Evaluation of Coefficient of Radial Consolidation Based on Pore-Water-Pressure Dissipation and Settlement. <i>Geotechnical Testing Journal</i> , 2013 , 36, 20120032	1-3	5
62	Vertical drain consolidation with non-Darcian flow and void-ratio-dependent compressibility and permeability. <i>Geotechnique</i> , 2012 , 62, 985-997	3-4	42

61	Final state of soils under vacuum preloading. <i>Canadian Geotechnical Journal</i> , 2012 , 49, 729-739	3.2	22
60	Reply to the discussion by Wang and Dallo on Hydraulic conductivity of saturated granular soils determined using a constriction-based technique. Appears in the <i>Canadian Geotechnical Journal</i> , 49(10): 1221-1222 [doi:10.1139/t2012-078]. <i>Canadian Geotechnical Journal</i> , 2012 , 49, 1223-1224	3.2	
59	Performance Improvement of Railway Ballast Using Shock Mats and Synthetic Grids 2012 ,		3
58	Hydraulic conductivity of saturated granular soils determined using a constriction-based technique. <i>Canadian Geotechnical Journal</i> , 2012 , 49, 607-613	3.2	27
57	Soft ground improvement via vertical drains and vacuum assisted preloading. <i>Geotextiles and Geomembranes</i> , 2012 , 30, 16-23	5.2	82
56	Numerical analysis of bearing reinforcement earth (BRE) wall. <i>Geotextiles and Geomembranes</i> , 2012 , 32, 28-37	5.2	17
55	Discussion of Assessing the Potential of Internal Erosion and Suffusion of Granular Soils by Buddhima Indraratna, Vo Trong Nguyen, and Cholachat Rujikiatkamjorn. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2012 , 138, 772-773	3.4	3
54	Consolidation of Ground with Prefabricated Vertical Drains Combined with Time-Dependent Surcharge Loading in Membrane System 2012 ,		1
53	Closure to Assessing the Potential of Internal Erosion and Suffusion of Granular Soils by Buddhima Indraratna, Vo Trong Nguyen, and Cholachat Rujikiatkamjorn. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2012 , 138, 775-775	3.4	1
52	Discussion of Assessing the Potential of Internal Erosion and Suffusion of Granular Soils by Buddhima Indraratna, Vo Trong Nguyen, and Cholachat Rujikiatkamjorn. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2012 , 138, 773-775	3.4	2
51	3D Numerical Modeling of Hexagonal Wire Mesh Reinforced Embankment on Soft Bangkok Clay 2012 ,		1
50	Soft soil foundation improved by vacuum and surcharge loading. <i>Proceedings of the Institution of Civil Engineers: Ground Improvement</i> , 2012 , 165, 87-96	1	26
49	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	3.4	18
48	Analytical Solutions for a Single Vertical Drain with Vacuum and Time-Dependent Surcharge Preloading in Membrane and Membraneless Systems. <i>International Journal of Geomechanics</i> , 2012 , 12, 27-42	3.1	43
47	Characterization of Compacted Coal Wash As Structural Fill Material 2012 ,		5
46	The Role of Ballast-Fouling Characteristics on the Drainage Capacity of Rail Substructure. <i>Geotechnical Testing Journal</i> , 2012 , 35, 104107	1.3	62
45	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		9
44	Use of Geosynthetics in Railways Including Geocomposites and Vertical Drains 2011 ,		2

43	Assessing the Potential of Internal Erosion and Suffusion of Granular Soils. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2011 , 137, 550-554	3.4	81
42	Automatic Classification of Ground-Penetrating-Radar Signals for Railway-Ballast Assessment. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2011 , 49, 3961-3972	8.1	58
41	Effectiveness of partially penetrating vertical drains under a combined surcharge and vacuum preloading. <i>Canadian Geotechnical Journal</i> , 2011 , 48, 970-983	3.2	30
40	Behavior of geogrid-reinforced ballast under various levels of fouling. <i>Geotextiles and Geomembranes</i> , 2011 , 29, 313-322	5.2	103
39	Model track studies on fouled ballast using ground penetrating radar and multichannel analysis of surface wave. <i>Journal of Applied Geophysics</i> , 2011 , 74, 175-184	1.7	32
38	A new parameter for classification and evaluation of railway ballast fouling. <i>Canadian Geotechnical Journal</i> , 2011 , 48, 322-326	3.2	52
37	Performance and Prediction of Vacuum Combined Surcharge Consolidation at Port of Brisbane. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2011 , 137, 1009-1018	3.4	82
36	Investigation on effectiveness of a prefabricated vertical drain during cyclic loading. <i>IOP Conference Series: Materials Science and Engineering</i> , 2010 , 10, 012091	0.4	1
35	Analysis of Soil Disturbance Associated with Mandrel-Driven Prefabricated Vertical Drains Using an Elliptical Cavity Expansion Theory. <i>International Journal of Geomechanics</i> , 2010 , 10, 53-64	3.1	32
34	Sustainable soil improvement via vacuum preloading. <i>Proceedings of the Institution of Civil Engineers: Ground Improvement</i> , 2010 , 163, 31-42	1	21
33	Nonlinear Analysis for a Single Vertical Drain Including the Effects of Preloading Considering the Compressibility and Permeability of the Soil 2010 ,		1
32	Class A Prediction of the Behavior of Soft Estuarine Soil Foundation Stabilized by Short Vertical Drains beneath a Rail Track. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2010 , 136, 686-696	3.4	28
31	Field Assessment of the Performance of a Ballasted Rail Track with and without Geosynthetics. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2010 , 136, 907-917	3.4	147
30	Using a seismic survey to measure the shear modulus of clean and fouled ballast. <i>Geomechanics and Geoengineering</i> , 2010 , 5, 117-126	1.4	21
29	Automatic classification of GPR signals 2010 ,		8
28	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	1.4	17
27	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	3.2	6
26	Analytical solutions for a single vertical drain with time-dependent vacuum combined surcharge preloading in membrane and membraneless systems. <i>IOP Conference Series: Materials Science and Engineering</i> , 2010 , 10, 012117	0.4	2

25	An Evaluation of Fouled Ballast in a Laboratory Model Track Using Ground Penetrating Radar. <i>Geotechnical Testing Journal</i> , 2010 , 33, 103045	1.3	3
24	Design procedure for vertical drains considering a linear variation of lateral permeability within the smear zone. <i>Canadian Geotechnical Journal</i> , 2009 , 46, 270-280	3.2	25
23	Experimental Investigation on Effectiveness of a Vertical Drain under Cyclic Loads. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2009 , 135, 835-839	3.4	23
22	Soft Soil Foundation Improved by Vacuum and Surcharge Preloading at Ballina Bypass, Australia 2009 ,		4
21	Evaluation of Smear Zone Extent Surrounding Mandrel Driven Vertical Drains Using the Cavity Expansion Theory. <i>International Journal of Geomechanics</i> , 2008 , 8, 355-365	3.1	33
20	Analytical and Numerical Modeling of Consolidation by Vertical Drain beneath a Circular Embankment. <i>International Journal of Geomechanics</i> , 2008 , 8, 199-206	3.1	26
19	Effects of Partially Penetrating Prefabricated Vertical Drains and Loading Patterns on Vacuum Consolidation 2008 ,		5
18	2D and 3D Numerical Modeling of Combined Surcharge and Vacuum Preloading with Vertical Drains. <i>International Journal of Geomechanics</i> , 2008 , 8, 144-156	3.1	65
17	Foundation behaviour below an embankment on soft soils. <i>Proceedings of the Institution of Civil Engineers: Geotechnical Engineering</i> , 2008 , 161, 259-267	0.9	3
16	Finite element simulation of mandrel penetration in a normally consolidated soil 2008 , 287-292		
15	Modelling of soft ground consolidation via combined surcharge and vacuum preloading 2008 , 43-53		1
14	Soft Clay Stabilization with Geosynthetic Vertical Drains beneath Road and Railway Embankments: A Critical Review of Analytical Solutions and Numerical Analysis 2007 ,		1
13	Analysis of Radial Vacuum-Assisted Consolidation Using 3D Finite Element Method 2007 ,		2
12	Numerical modelling of soft soil stabilized by vertical drains, combining surcharge and vacuum preloading for a storage yard. <i>Canadian Geotechnical Journal</i> , 2007 , 44, 326-342	3.2	36
11	Analytical solutions and design curves for vacuum-assisted consolidation with both vertical and horizontal drainage. <i>Canadian Geotechnical Journal</i> , 2007 , 44, 188-200	3.2	48
10	Stabilization of Ballasted Rail Tracks and Underlying Soft Formation Soils with Geosynthetic Grids and Drains 2006 , 143		4
9	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". <i>Canadian Geotechnical Journal</i> , 2006 , 43, 1404-1405	3.2	
8	Improvement of Soft Clays Using Vacuum-Assisted Consolidation Method 2006 , 1		

7	Three-Dimensional Numerical Modeling of Soft Soil Consolidation Improved by Prefabricated Vertical Drains 2006 , 161		4
6	Analytical and numerical solutions for a single vertical drain including the effects of vacuum preloading. <i>Canadian Geotechnical Journal</i> , 2005 , 42, 994-1014	3.2	108
5	Analytical and Numerical Modeling of Soft Soil Stabilized by Prefabricated Vertical Drains Incorporating Vacuum Preloading. <i>International Journal of Geomechanics</i> , 2005 , 5, 114-124	3.1	113
4	Radial consolidation of clay using compressibility indices and varying horizontal permeability. <i>Canadian Geotechnical Journal</i> , 2005 , 42, 1330-1341	3.2	93
3	Advanced Rail Geotechnology - Ballasted Track		157
2	Geotechnical characteristics of a Rubber Intermixed Ballast System. <i>Acta Geotechnica</i> ,1	4.9	2
1	Shear behaviour of subgrade soil with reference to varying initial shear stress and plasticity index. <i>Acta Geotechnica</i> ,1	4.9	1