Mark F Randolph

List of Publications by Citations

244 papers	11,056 citations	60 h-index	97 g-index
251 ext. papers	12,586 ext. citations	3.2 avg, IF	6.61 L-index

#	Paper	IF	Citations
244	The limiting pressure on a circular pile loaded laterally in cohesive soil. *Geotechnique*, **1984**, 34, 613-623	3.4	412
243	The response of flexible piles to lateral loading. *Geotechnique*, **1981**, 31, 247-259	3.4	400
242	Analysis of Deformation of Vertically Loaded Piles. *Journal of the Geotechnical Engineering Division, ASCE*, **1978**, 104, 1465-1488		365
241	Science and empiricism in pile foundation design. *Geotechnique*, **2003**, 53, 847-875	3.4	345
240	Driven piles in clay the effects of installation and subsequent consolidation. *Geotechnique*, **1979**, 29, 361-393	3.4	295
239	Combining upper bound and strain path methods for evaluating penetration resistance. *International Journal for Numerical Methods in Engineering*, **2005**, 63, 1991-2016	2.4	258
238	Combined loading of skirted foundations. *Geotechnique*, **1998**, 48, 637-655	3.4	254
237	A practical numerical approach for large deformation problems in soil. *International Journal for Numerical and Analytical Methods in Geomechanics*, **1998**, 22, 327-350	4	252
236	An analysis of the vertical deformation of pile groups. *Geotechnique*, **1979**, 29, 423-439	3.4	210
235	Design of driven piles in sand. *Geotechnique*, **1994**, 44, 427-448	3.4	208
234	Upper-bound analysis of lateral pile capacity in cohesive soil. *Geotechnique*, **2006**, 56, 141-145	3.4	192
233	An analytical solution for the consolidation around a driven pile. *International Journal for Numerical and Analytical Methods in Geomechanics*, **1979**, 3, 217-229	4	175
232	Numerical prediction of collapse loads using finite element methods. *International Journal for Numerical and Analytical Methods in Geomechanics*, **1982**, 6, 47-76	4	163
231	Effect of Cement Type on Shear Behavior of Cemented Calcareous Soil. *Journal of Geotechnical and Geoenvironmental Engineering - ASCE*, **2002**, 128, 520-529	3.4	154
230	On modelling the unloading-reloading behaviour of soils. *International Journal for Numerical and Analytical Methods in Geomechanics*, **1978**, 2, 87-93	4	143
229	Effect of Penetration Rate on Penetrometer Resistance in Clay. *Journal of Geotechnical and Geoenvironmental Engineering - ASCE*, **2006**, 132, 1188-1196	3.4	131
228	A contribution to optimum design of piled rafts. *Geotechnique*, **1998**, 48, 301-317	3.4	129

227	Three-Dimensional Large Deformation Finite-Element Analysis of Plate Anchors in Uniform Clay. *Journal of Geotechnical and Geoenvironmental Engineering - ASCE*, **2010**, 136, 355-365	3.4	127
226	Large deformation finite element analyses in geotechnical engineering. *Computers and Geotechnics*, **2015**, 65, 104-114	4.4	124
225	T-Bar Penetration Testing in Soft Clay. *Journal of Geotechcnical Engineering*, **1994**, 120, 2230-2235		124
224	An approximate analysis procedure for piled raft foundations. *International Journal for Numerical and Analytical Methods in Geomechanics*, **1993**, 17, 849-869	4	123
223	Stress and pore pressure changes in clay during and after the expansion of a cylindrical cavity. *International Journal for Numerical and Analytical Methods in Geomechanics*, **1979**, 3, 305-322	4	117
222	Resistance of full-flow penetrometers in rate-dependent and strain-softening clay. *Geotechnique*, **2009**, 59, 79-86	3.4	112
221	Pipe penetration in cohesive soil. *Geotechnique*, **1989**, 39, 213-229	3.4	110
220	Recent advances in offshore geotechnics for deep water oil and gas developments. *Ocean Engineering*, **2011**, 38, 818-834	3.9	109
219	Limiting cavity depth for spudcan foundations penetrating clay. *Geotechnique*, **2005**, 55, 679-690	3.4	107
218	Profile and Frictional Capacity of Embedded Anchor Chains. *Journal of Geotechcnical Engineering*, **1995**, 121, 797-803		104
217	Drag anchor fluke?soil interaction in clays. *Canadian Geotechnical Journal*, **2003**, 40, 78-94	3.2	102
216	Computational Techniques and Shear Band Development for Cylindrical and Spherical Penetrometers in Strain-Softening Clay. *International Journal of Geomechanics*, **2007**, 7, 287-295	3.1	101
215	Cementation of porous materials using calcite. *Geotechnique*, **2002**, 52, 313-324	3.4	101
214	One-dimensional analysis of soil plugs in pipe piles. *Geotechnique*, **1991**, 41, 587-598	3.4	97
213	The plugging behaviour of driven and jacked piles in sand. *Geotechnique*, **1997**, 47, 841-856	3.4	95
212	The ultimate undrained resistance of partially embedded pipelines. *Geotechnique*, **2008**, 58, 461-470	3.4	91
211	Large-deformation finite element analysis of pipe penetration and large-amplitude lateral displacement. *Canadian Geotechnical Journal*, **2010**, 47, 842-856	3.2	90
210	Analysis of Factors Influencing Soil Classification Using Normalized Piezocone Tip Resistance and Pore Pressure Parameters. *Journal of Geotechnical and Geoenvironmental Engineering - ASCE*, **2008**, 134, 1569-1586	3.4	89

209	Effect of Strain Rate and Strain Softening on the Penetration Resistance of Spudcan Foundations on Clay. *International Journal of Geomechanics*, **2009**, 9, 122-132	3.1	86
208	The Effect of Embedment Depth on the Undrained Response of Skirted Foundations to Combined Loading. *Soils and Foundations*, **1999**, 39, 19-33	2.9	85
207	A numerical study of cone penetration in clay. *Geotechnique*, **2004**, 54, 257-267	3.4	84
206	Revealing the bearing capacity mechanisms of a penetrating spudcan through sand overlying clay. *Geotechnique*, **2008**, 58, 793-804	3.4	82
205	Undrained Bearing Capacity of Square and Rectangular Footings. *International Journal of Geomechanics*, **2006**, 6, 147-157	3.1	82
204	New Mechanism-Based Design Approach for Spudcan Foundations on Single Layer Clay. *Journal of Geotechnical and Geoenvironmental Engineering - ASCE*, **2009**, 135, 1264-1274	3.4	81
203	Numerical Simulation of Vertical Pullout of Plate Anchors in Clay. *Journal of Geotechnical and Geoenvironmental Engineering - ASCE*, **2008**, 134, 866-875	3.4	78
202	Design Strategies for Piled Rafts Subjected to Nonuniform Vertical Loading. *Journal of Geotechnical and Geoenvironmental Engineering - ASCE*, **2004**, 130, 1-13	3.4	78
201	A comparison of the combined load behaviour of spudcan and caisson foundations on soft normally consolidated clay. *Geotechnique*, **2004**, 54, 91-106	3.4	77
200	Centrifuge Modeling of the Cyclic Lateral Response of a Rigid Pile in Soft Clay. *Journal of Geotechnical and Geoenvironmental Engineering - ASCE*, **2011**, 137, 717-729	3.4	74
199	Upper-bound yield envelopes for pipelines at shallow embedment in clay. *Geotechnique*, **2008**, 58, 297-301	3.4	74
198	Piled rafts in overconsolidated clay: comparison ofin situmeasurements and numerical analyses. *Geotechnique*, **2003**, 53, 301-315	3.4	74
197	Monotonic Lateral Loading of Piles in Calcareous Sand. *Journal of Geotechnical and Geoenvironmental Engineering - ASCE*, **2001**, 127, 346-352	3.4	74
196	Modeling of Shallowly Embedded Offshore Pipelines in Calcareous Sand. *Journal of Geotechnical and Geoenvironmental Engineering - ASCE*, **2002**, 128, 363-371	3.4	73
195	Analysis of Cavity Expansion in Sand. *International Journal of Geomechanics*, **2001**, 1, 175-192	3.1	72
194	Loss in Anchor Embedment during Plate Anchor Keying in Clay. *Journal of Geotechnical and Geoenvironmental Engineering - ASCE*, **2009**, 135, 1475-1485	3.4	71
193	Effect of Surface Heave on Response of Partially Embedded Pipelines on Clay. *Journal of Geotechnical and Geoenvironmental Engineering - ASCE*, **2009**, 135, 819-829	3.4	71
192	Bearing Response of Skirted Foundation on Nonhomogeneous Soil. *Journal of Geotechnical and Geoenvironmental Engineering - ASCE*, **1999**, 125, 924-935	3.4	69

191	CPT-Based Method for the Installation of Suction Caissons in Sand. *Journal of Geotechnical and Geoenvironmental Engineering - ASCE*, **2009**, 135, 14-25	3.4	66
190	Tensile and Compressive Shaft Capacity of Piles in Sand. *Journal of Geotechcnical Engineering*, **1993**, 119, 1952-1973		66
189	Setup Following Installation of Dynamic Anchors in Normally Consolidated Clay. *Journal of Geotechnical and Geoenvironmental Engineering - ASCE*, **2009**, 135, 487-496	3.4	63
188	Vertically loaded piles in non-homogeneous media **1997**, 21, 507-532		63
187	Numerical analysis of a cylinder moving through rate-dependent undrained soil. *Ocean Engineering*, **2011**, 38, 943-953	3.9	61
186	Simple design tools for piled raft foundations. *Geotechnique*, **1996**, 46, 313-328	3.4	61
185	Comparisons of the results from pressuremeter tests and large in situ plate tests in London Clay. *Geotechnique*, **1977**, 27, 217-243	3.4	61
184	A simple implementation of RITSS and its application in large deformation analysis. *Computers and Geotechnics*, **2014**, 56, 160-167	4.4	58
183	Response of Piles with Wings to Monotonic and Cyclic Lateral Loading in Sand. *Journal of Geotechnical and Geoenvironmental Engineering - ASCE*, **2012**, 138, 364-375	3.4	57
182	Centrifuge modelling of pipe piles in sand under axial loads. *Geotechnique*, **1999**, 49, 295-318	3.4	57
181	Scour effects on p-y curves for shallowly embedded piles in sand. *Geotechnique*, **2016**, 66, 648-660	3.4	56
180	Keying of Rectangular Plate Anchors in Normally Consolidated Clays. *Journal of Geotechnical and Geoenvironmental Engineering - ASCE*, **2011**, 137, 1244-1253	3.4	54
179	Influence of the installation process on the performance of suction embedded plate anchors. *Geotechnique*, **2006**, 56, 381-391	3.4	54
178	Influence of Partial Consolidation during Cone Penetration on Estimated Soil Behavior Type and Pore Pressure Dissipation Measurements. *Journal of Geotechnical and Geoenvironmental Engineering - ASCE*, **2012**, 138, 777-788	3.4	52
177	Limiting resistance of a spherical penetrometer in cohesive material. *Geotechnique*, **2000**, 50, 573-582	3.4	51
176	Consolidation beneath Circular Skirted Foundations. *International Journal of Geomechanics*, **2010**, 10, 22-29	3.1	50
175	External radial stress changes and axial capacity for suction caissons in soft clay. *Geotechnique*, **2007**, 57, 499-511	3.4	50
174	Interaction forces between pipelines and submarine slides – A geotechnical viewpoint. *Ocean Engineering*, **2012**, 48, 32-37	3.9	49

173	Variation of suction pressure during caisson installation in sand. *Geotechnique*, **2008**, 58, 1-11	3.4	49
172	Upper bound limit analysis of circular foundations on clay under general loading. *Geotechnique*, **2003**, 53, 785-796	3.4	48
171	An image-based deformation measurement system for the geotechnical centrifuge. *International Journal of Physical Modelling in Geotechnics*, **2005**, 5, 01-12	1	48
170	Numerical investigation of dynamic installation of torpedo anchors in clay. *Ocean Engineering*, **2015**, 108, 820-832	3.9	47
169	On the definition of raft–soil stiffness ratio for rectangular rafts. *Geotechnique*, **1997**, 47, 1055-1061	3.4	46
168	Uplift Capacity of Suction Caissons under Sustained and Cyclic Loading in Soft Clay. *Journal of Geotechnical and Geoenvironmental Engineering - ASCE*, **2007**, 133, 1352-1363	3.4	46
167	Analytical modelling of hammer impact for pile driving. *International Journal for Numerical and Analytical Methods in Geomechanics*, **1993**, 17, 279-302	4	45
166	Evaluation of Remolded Shear Strength and Sensitivity of Soft Clay Using Full-Flow Penetrometers. *Journal of Geotechnical and Geoenvironmental Engineering - ASCE*, **2009**, 135, 1179-1189	3.4	44
165	Evaluation of a Minimum Base Resistance for Driven Pipe Piles in Siliceous Sand. *Journal of Geotechnical and Geoenvironmental Engineering - ASCE*, **2002**, 128, 198-205	3.4	43
164	Experimental investigation of reverse end bearing of offshore shallow foundations. *Canadian Geotechnical Journal*, **2013**, 50, 1022-1033	3.2	42
163	Non-Linear Hysteretic Seabed Model for Catenary Pipeline Contact **2009**,		42
162	Installation of Suction Caissons in Sand with Silt Layers. *Journal of Geotechnical and Geoenvironmental Engineering - ASCE*, **2007**, 133, 1183-1191	3.4	42
161	Investigation of impact forces on pipeline by submarine landslide using material point method. *Ocean Engineering*, **2017**, 146, 21-28	3.9	41
160	Guidelines for offshore in situ testing and interpretation in deepwater soft clays. *Canadian Geotechnical Journal*, **2011**, 48, 543-556	3.2	41
159	Numerical Analysis of T-Bar Penetration in Soft Clay. *International Journal of Geomechanics*, **2006**, 6, 411-420	3.4	38
158	The performance of drag anchor and chain systems in cohesive soil. *Marine Georesources and Geotechnology*, **1996**, 14, 77-96	2.2	38
157	Automatic element reordering for finite element analysis with frontal solution schemes. *International Journal for Numerical Methods in Engineering*, **1983**, 19, 1153-1181	2.4	38
156	Catastrophic failure in planar landslides with a fully softened weak zone. *Geotechnique*, **2015**, 65, 755-768	3.4	37

155	Large deformation analysis of suction caisson installation in clay. *Canadian Geotechnical Journal*, **2006**, 43, 1344-1357	3.2	36
154	Analytical solution for ultimate embedment depth and potential holding capacity of plate anchors. *Geotechnique*, **2015**, 65, 517-530	3.4	35
153	Installation and capacity of dynamically embedded plate anchors as assessed through centrifuge tests. *Ocean Engineering*, **2014**, 88, 204-213	3.9	35
152	Large Deformation Finite-Element Analysis of Submarine Landslide Interaction with Embedded Pipelines. *International Journal of Geomechanics*, **2010**, 10, 145-152	3.1	35
151	Estimation of Overall Settlement of Piled Rafts. *Soils and Foundations*, **1999**, 39, 59-68	2.9	35
150	Pile Group Analysis: A Study of Two Methods. *Journal of Geotechcnical Engineering*, **1983**, 109, 355-372		34
149	Parametric Solutions for Slide Impact on Pipelines. *Journal of Geotechnical and Geoenvironmental Engineering - ASCE*, **2010**, 136, 940-949	3.4	33
148	Kinematic Hardening Model for Pipeline-Soil Interaction under Various Loading Conditions. *International Journal of Geomechanics*, **2002**, 2, 419-446	3.1	33
147	Coupled consolidation analysis of pipe□oil interactions. *Canadian Geotechnical Journal*, **2013**, 50, 609-619	3.2	32
146	Torsional piles in non-homogeneous media. *Computers and Geotechnics*, **1996**, 19, 265-287	4.4	32
145	Soil Plug Response in Open-Ended Pipe Piles. *Journal of Geotechcnical Engineering*, **1992**, 118, 743-759		32
144	Numerical study of spudcan penetration in loose sand overlying clay. *Computers and Geotechnics*, **2012**, 46, 1-12	4.4	31
143	Rationality of load transfer approach for pile analysis. *Computers and Geotechnics*, **1998**, 23, 85-112	4.4	30
142	Failure mechanisms of skirted foundations in uplift and compression. *International Journal of Physical Modelling in Geotechnics*, **2012**, 12, 47-62	1	29
141	Penetrometer Testing: Effect of Partial Consolidation on Subsequent Dissipation Response. *Journal of Geotechnical and Geoenvironmental Engineering - ASCE*, **2014**, 140, 04014022	3.4	28
140	Effect of Installation Method on External Shaft Friction of Caissons in Soft Clay. *Journal of Geotechnical and Geoenvironmental Engineering - ASCE*, **2009**, 135, 605-615	3.4	28
139	Numerical analysis of soil plug behaviour inside open-ended piles during driving. *International Journal for Numerical and Analytical Methods in Geomechanics*, **1998**, 22, 303-322	4	26
138	A model for rock interfacial behaviour. *Rock Mechanics and Rock Engineering*, **1992**, 25, 187-206	5.7	25

137	CONSOLIDATION OF A CROSS-ANISOTROPIC SOIL MEDIUM. *Quarterly Journal of Mechanics and Applied Mathematics*, **1984**, 37, 479-495	1	25
136	Science and empiricism in pile foundation design. *Geotechnique*, **2003**, 53, 847-875	3.4	25
135	A GPU parallel computing strategy for the material point method. *Computers and Geotechnics*, **2015**, 66, 31-38	4.4	24
134	Elastoplastic consolidation beneath shallowly embedded offshore pipelines. *Geotechnique Letters*, **2012**, 2, 73-79	1.7	24
133	Influence of padeye offset on bearing capacity of three-dimensional plate anchors. *Canadian Geotechnical Journal*, **2015**, 52, 682-693	3.2	23
132	Dimensionless groups governing response of steel catenary risers. *Ocean Engineering*, **2013**, 74, 247-259	3.9	23
131	Interpretation of piezoball dissipation testing in clay. *Geotechnique*, **2015**, 65, 831-842	3.4	23
130	Cyclic consolidation and axial friction for seabed pipelines. *Geotechnique Letters*, **2014**, 4, 165-169	1.7	23
129	Upper-bound and load–displacement solutions for laterally loaded piles in clays based on energy minimisation. *Geotechnique*, **2008**, 58, 815-820	3.4	23
128	Dynamic and Static Load Testing of Model Piles Driven into Dense Sand. *Journal of Geotechnical and Geoenvironmental Engineering - ASCE*, **1999**, 125, 988-998	3.4	23
127	Finite element modelling of rock-socketed piles. *International Journal for Numerical and Analytical Methods in Geomechanics*, **1994**, 18, 25-47	4	23
126	From progressive to catastrophic failure in submarine landslides with curvilinear slope geometries. *Geotechnique*, **2017**, 1-16	3.4	22
125	Spudcan Penetration Analysis for Case Histories in Clay. *Journal of Geotechnical and Geoenvironmental Engineering - ASCE*, **2014**, 140, 04014034	3.4	21
124	Simple Formulas for the Response of Shallow Foundations on Compressible Sands. *International Journal of Geomechanics*, **2008**, 8, 230-239	3.1	21
123	Strength Measurement for Near-Seabed Surface Soft Soil Using Manually Operated Miniature Full-Flow Penetrometer. *Journal of Geotechnical and Geoenvironmental Engineering - ASCE*, **2010**, 136, 1565-1573	3.4	20
122	Effects of Electrode Configuration on Electrokinetic Stabilization for Caisson Anchors in Calcareous Sand. *Journal of Geotechnical and Geoenvironmental Engineering - ASCE*, **2008**, 134, 352-365	3.4	20
121	An Experimental Investigation of a Shallow Skirted Foundation Under Compression and Tension. *Soils and Foundations*, **2008**, 48, 247-254	2.9	20
120	Numerical modelling of the driving response of thin-walled open-ended piles. *International Journal for Numerical and Analytical Methods in Geomechanics*, **2001**, 25, 933-953	4	20

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117	Comparing CPTUQ□andQ□2/□0?soil classification charts. *Geotechnique Letters*, **2012**, 2, 209-215	1.7	19
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114	Numerical modelling of seepage beneath skirted foundations subjected to vertical uplift. *Computers and Geotechnics*, **2014**, 55, 150-157	4.4	18
113	Considerations on the Design of Keying Flap of Plate Anchors. *Journal of Geotechnical and Geoenvironmental Engineering - ASCE*, **2013**, 139, 1156-1164	3.4	18
112	Spudcan deep penetration in multi-layered fine-grained soils. *International Journal of Physical Modelling in Geotechnics*, **2011**, 11, 100-115	1	18
111	Analytical Solution for the Consolidation around a Laterally Loaded Pile. *International Journal of Geomechanics*, **2012**, 12, 199-208	3.1	18
110	Torsional Piles in Two-Layered Nonhomogeneous Soil. *International Journal of Geomechanics*, **2007**, 7, 410-422	3.1	18
109	A simple model for inelastic footing response to transient loading. *International Journal for Numerical and Analytical Methods in Geomechanics*, **1995**, 19, 307-329	4	18
108	A numerical study of cone penetration in clay. *Geotechnique*, **2004**, 54, 257-267	3.4	17
107	Centrifuge study on effect of installation method on lateral response of monopiles in sand. *International Journal of Physical Modelling in Geotechnics*, **2021**, 21, 40-52	1	17
106	Runout of submarine landslide simulated with material point method. *Journal of Hydrodynamics*, **2017**, 29, 438-444	3.3	16
105	Experience with a dual pore pressure element piezoball. *International Journal of Physical Modelling in Geotechnics*, **2016**, 16, 101-118	1	16
104	Penetrometer-Based Assessment of Spudcan Penetration Resistance. *Journal of Geotechnical and Geoenvironmental Engineering - ASCE*, **2011**, 137, 587-596	3.4	16
103	Numerical Study of the Effect of Foundation Size for a Wide Range of Sands. *Journal of Geotechnical and Geoenvironmental Engineering - ASCE*, **2009**, 135, 37-45	3.4	16
102	Hybrid Subsea Foundations for Subsea Equipment. *Journal of Geotechnical and Geoenvironmental Engineering - ASCE*, **2013**, 139, 2182-2192	3.4	15

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100	Estimating consolidation parameters from field piezoball tests. *Geotechnique*, **2016**, 66, 333-343	3.4	14
99	Evaluation of Elastic Stiffness Parameters for Pipeline-Soil Interaction. *Journal of Geotechnical and Geoenvironmental Engineering - ASCE*, **2016**, 142, 04016009	3.4	14
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97	Effect of Recent Load History on Laterally Loaded Piles in Normally Consolidated Clay. *International Journal of Geomechanics*, **2007**, 7, 277-286	3.1	14
96	Analytical estimation of static stress range in oscillating steel catenary risers at touchdown areas and its application with dynamic amplification factors. *Ocean Engineering*, **2014**, 88, 63-80	3.9	13
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92	Approximation of the maximum dynamic stress range in steel catenary risers using artificial neural networks. *Engineering Structures*, **2015**, 92, 172-185	4.7	12
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88	Runout of Submarine Landslide Simulated with Material Point Method. *Procedia Engineering*, **2017**, 175, 357-364		11
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82	Finite element analyses of soil plug response. *International Journal for Numerical and Analytical Methods in Geomechanics*, **1991**, 15, 121-141	4	11
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78	Subsea pipeline walking with velocity dependent seabed friction. *Applied Ocean Research*, **2019**, 82, 296-308	3.4	10
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76	Bearing capacity on sand overlying clay: An analytical model for predicting post peak behaviour. *Marine Structures*, **2018**, 59, 94-104	3.8	9
75	Numerical Study of Mobilized Friction along Embedded Catenary Mooring Chains. *Journal of Geotechnical and Geoenvironmental Engineering - ASCE*, **2019**, 145, 04019081	3.4	9
74	The Influence of Seabed Response on Fatigue Performance of Steel Catenary Risers in Touchdown Zone **2010**,		9
73	The Complementary Roles of Physical and Computational Modelling. *International Journal of Physical Modelling in Geotechnics*, **2001**, 1, 1-8	1	9
72	Penetrometer testing in a calcareous silt to explore changes in soil strength. *Geotechnique*, **2020**, 70, 1160-1173	3.4	9
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67	Experimental Study of Suction Installation of Caissons in Dense Sand **2004**, 105		8
66	Comparison of transmitting boundaries in dynamic finite element analyses using explicit time integration. *International Journal for Numerical and Analytical Methods in Geomechanics*, **1986**, 10, 329-342	4	8

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