

Mark F Randolph

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8682587/publications.pdf>

Version: 2024-02-01

247
papers

14,573
citations

14644

66
h-index

24232

110
g-index

251
all docs

251
docs citations

251
times ranked

3092
citing authors

#	ARTICLE	IF	CITATIONS
1	The limiting pressure on a circular pile loaded laterally in cohesive soil. <i>Geotechnique</i> , 1984, 34, 613-623.	2.2	524
2	Analysis of Deformation of Vertically Loaded Piles. <i>Journal of the Geotechnical Engineering Division, ASCE</i> , 1978, 104, 1465-1488.	0.2	498
3	The response of flexible piles to lateral loading. <i>Geotechnique</i> , 1981, 31, 247-259.	2.2	485
4	Science and empiricism in pile foundation design. <i>Geotechnique</i> , 2003, 53, 847-875.	2.2	433
5	Driven piles in clay—the effects of installation and subsequent consolidation. <i>Geotechnique</i> , 1979, 29, 361-393.	2.2	366
6	Combining upper bound and strain path methods for evaluating penetration resistance. <i>International Journal for Numerical Methods in Engineering</i> , 2005, 63, 1991-2016.	1.5	351
7	Combined loading of skirted foundations. <i>Geotechnique</i> , 1998, 48, 637-655.	2.2	334
8	A practical numerical approach for large deformation problems in soil. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 1998, 22, 327-350.	1.7	324
9	An analysis of the vertical deformation of pile groups. <i>Geotechnique</i> , 1979, 29, 423-439.	2.2	272
10	Design of driven piles in sand. <i>Geotechnique</i> , 1994, 44, 427-448.	2.2	247
11	Upper-bound analysis of lateral pile capacity in cohesive soil. <i>Geotechnique</i> , 2006, 56, 141-145.	2.2	243
12	An analytical solution for the consolidation around a driven pile. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 1979, 3, 217-229.	1.7	208
13	Effect of Cement Type on Shear Behavior of Cemented Calcareous Soil. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2002, 128, 520-529.	1.5	200
14	Large deformation finite element analyses in geotechnical engineering. <i>Computers and Geotechnics</i> , 2015, 65, 104-114.	2.3	197
15	Numerical prediction of collapse loads using finite element methods. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 1982, 6, 47-76.	1.7	190
16	An approximate analysis procedure for piled raft foundations. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 1993, 17, 849-869.	1.7	171
17	On modelling the unloading-reloading behaviour of soils. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 1978, 2, 87-93.	1.7	163
18	Effect of Penetration Rate on Penetrometer Resistance in Clay. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2006, 132, 1188-1196.	1.5	163

#	ARTICLE	IF	CITATIONS
19	Three-Dimensional Large Deformation Finite-Element Analysis of Plate Anchors in Uniform Clay. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2010, 136, 355-365.	1.5	162
20	A contribution to optimum design of piled rafts. <i>Geotechnique</i> , 1998, 48, 301-317.	2.2	160
21	T̄ Penetration Testing in Soft Clay. <i>Journal of Geotechnical Engineering</i> , 1994, 120, 2230-2235.	0.4	157
22	Recent advances in offshore geotechnics for deep water oil and gas developments. <i>Ocean Engineering</i> , 2011, 38, 818-834.	1.9	155
23	Stress and pore pressure changes in clay during and after the expansion of a cylindrical cavity. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 1979, 3, 305-322.	1.7	149
24	Resistance of full-flow penetrometers in rate-dependent and strain-softening clay. <i>Geotechnique</i> , 2009, 59, 79-86.	2.2	147
25	Cementation of porous materials using calcite. <i>Geotechnique</i> , 2002, 52, 313-324.	2.2	139
26	Computational Techniques and Shear Band Development for Cylindrical and Spherical Penetrometers in Strain-Softening Clay. <i>International Journal of Geomechanics</i> , 2007, 7, 287-295.	1.3	134
27	Profile and Frictional Capacity of Embedded Anchor Chains. <i>Journal of Geotechnical Engineering</i> , 1995, 121, 797-803.	0.4	133
28	Drag anchor fluke–soil interaction in clays. <i>Canadian Geotechnical Journal</i> , 2003, 40, 78-94.	1.4	133
29	Limiting cavity depth for spudcan foundations penetrating clay. <i>Geotechnique</i> , 2005, 55, 679-690.	2.2	132
30	Pipe penetration in cohesive soil. <i>Geotechnique</i> , 1989, 39, 213-229.	2.2	129
31	One-dimensional analysis of soil plugs in pipe piles. <i>Geotechnique</i> , 1991, 41, 587-598.	2.2	129
32	Analysis of Factors Influencing Soil Classification Using Normalized Piezocone Tip Resistance and Pore Pressure Parameters. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2008, 134, 1569-1586.	1.5	129
33	Large-deformation finite element analysis of pipe penetration and large-amplitude lateral displacement. <i>Canadian Geotechnical Journal</i> , 2010, 47, 842-856.	1.4	127
34	The plugging behaviour of driven and jacked piles in sand. <i>Geotechnique</i> , 1997, 47, 841-856.	2.2	123
35	Effect of Strain Rate and Strain Softening on the Penetration Resistance of Spudcan Foundations on Clay. <i>International Journal of Geomechanics</i> , 2009, 9, 122-132.	1.3	111
36	The Effect of Embedment Depth on the Undrained Response of Skirted Foundations to Combined Loading. <i>Soils and Foundations</i> , 1999, 39, 19-33.	1.3	109

#	ARTICLE	IF	CITATIONS
37	Design Strategies for Piled Rafts Subjected to Nonuniform Vertical Loading. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2004, 130, 1-13.	1.5	109
38	The ultimate undrained resistance of partially embedded pipelines. Geotechnique, 2008, 58, 461-470.	2.2	108
39	A numerical study of cone penetration in clay. Geotechnique, 2004, 54, 257-267.	2.2	104
40	Undrained Bearing Capacity of Square and Rectangular Footings. International Journal of Geomechanics, 2006, 6, 147-157.	1.3	102
41	Revealing the bearing capacity mechanisms of a penetrating spudcan through sand overlying clay. Geotechnique, 2008, 58, 793-804.	2.2	99
42	Monotonic Lateral Loading of Piles in Calcareous Sand. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2001, 127, 346-352.	1.5	98
43	Numerical Simulation of Vertical Pullout of Plate Anchors in Clay. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2008, 134, 866-875.	1.5	98
44	CPT-Based Method for the Installation of Suction Caissons in Sand. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2009, 135, 14-25.	1.5	98
45	New Mechanism-Based Design Approach for Spudcan Foundations on Single Layer Clay. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2009, 135, 1264-1274.	1.5	96
46	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.	1.5	95
47	Scour effects on ϕ curves for shallowly embedded piles in sand. Geotechnique, 2016, 66, 648-660.	2.2	95
48	Piled rafts in overconsolidated clay: comparison of <i>in situ</i> measurements and numerical analyses. Geotechnique, 2003, 53, 301-315.	2.2	94
49	Modeling of Shallowly Embedded Offshore Pipelines in Calcareous Sand. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2002, 128, 363-371.	1.5	89
50	Loss in Anchor Embedment during Plate Anchor Keying in Clay. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2009, 135, 1475-1485.	1.5	89
51	Tensile and Compressive Shaft Capacity of Piles in Sand. Journal of Geotechnical Engineering, 1993, 119, 1952-1973.	0.4	87
52	Bearing Response of Skirted Foundation on Nonhomogeneous Soil. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 1999, 125, 924-935.	1.5	86
53	Upper-bound yield envelopes for pipelines at shallow embedment in clay. Geotechnique, 2008, 58, 297-301.	2.2	86
54	Analysis of Cavity Expansion in Sand. International Journal of Geomechanics, 2001, 1, 175-192.	1.3	85

#	ARTICLE	IF	CITATIONS
55	A comparison of the combined load behaviour of spudcan and caisson foundations on soft normally consolidated clay. <i>Geotechnique</i> , 2004, 54, 91-106.	2.2	85
56	Effect of Surface Heave on Response of Partially Embedded Pipelines on Clay. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2009, 135, 819-829.	1.5	85
57	Response of Piles with Wings to Monotonic and Cyclic Lateral Loading in Sand. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2012, 138, 364-375.	1.5	83
58	A simple implementation of RITSS and its application in large deformation analysis. <i>Computers and Geotechnics</i> , 2014, 56, 160-167.	2.3	83
59	Influence of Partial Consolidation during Cone Penetration on Estimated Soil Behavior Type and Pore Pressure Dissipation Measurements. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2012, 138, 777-788.	1.5	82
60	Simple design tools for piled raft foundations. <i>Geotechnique</i> , 1996, 46, 313-328.	2.2	78
61	Vertically loaded piles in non-homogeneous media. , 1997, 21, 507-532.		78
62	Setup Following Installation of Dynamic Anchors in Normally Consolidated Clay. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2009, 135, 487-496.	1.5	78
63	Numerical analysis of a cylinder moving through rate-dependent undrained soil. <i>Ocean Engineering</i> , 2011, 38, 943-953.	1.9	77
64	Numerical investigation of dynamic installation of torpedo anchors in clay. <i>Ocean Engineering</i> , 2015, 108, 820-832.	1.9	77
65	Investigation of impact forces on pipeline by submarine landslide using material point method. <i>Ocean Engineering</i> , 2017, 146, 21-28.	1.9	76
66	Science and empiricism in pile foundation design. <i>Geotechnique</i> , 2003, 53, 847-875.	2.2	73
67	Comparisons of the results from pressuremeter tests and large in situ plate tests in London Clay. <i>Geotechnique</i> , 1977, 27, 217-243.	2.2	72
68	Variation of suction pressure during caisson installation in sand. <i>Geotechnique</i> , 2008, 58, 1-11.	2.2	71
69	Influence of the installation process on the performance of suction embedded plate anchors. <i>Geotechnique</i> , 2006, 56, 381-391.	2.2	70
70	Interaction forces between pipelines and submarine slides "A geotechnical viewpoint. <i>Ocean Engineering</i> , 2012, 48, 32-37.	1.9	68
71	Keying of Rectangular Plate Anchors in Normally Consolidated Clays. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2011, 137, 1244-1253.	1.5	67
72	Centrifuge modelling of pipe piles in sand under axial loads. <i>Geotechnique</i> , 1999, 49, 295-318.	2.2	66

#	ARTICLE	IF	CITATIONS
73	Consolidation beneath Circular Skirted Foundations. International Journal of Geomechanics, 2010, 10, 22-29.	1.3	66
74	On the definition of raft's soil stiffness ratio for rectangular rafts. Geotechnique, 1997, 47, 1055-1061.	2.2	65
75	External radial stress changes and axial capacity for suction caissons in soft clay. Geotechnique, 2007, 57, 499-511.	2.2	64
76	Analytical modelling of hammer impact for pile driving. International Journal for Numerical and Analytical Methods in Geomechanics, 1993, 17, 279-302.	1.7	63
77	Limiting resistance of a spherical penetrometer in cohesive material. Geotechnique, 2000, 50, 573-582.	2.2	63
78	Uplift Capacity of Suction Caissons under Sustained and Cyclic Loading in Soft Clay. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2007, 133, 1352-1363.	1.5	61
79	Upper bound limit analysis of circular foundations on clay under general loading. Geotechnique, 2003, 53, 785-796.	2.2	58
80	Non-Linear Hysteretic Seabed Model for Catenary Pipeline Contact. , 2009, , .		58
81	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.	1.5	58
82	Guidelines for offshore in situ testing and interpretation in deepwater soft clays. Canadian Geotechnical Journal, 2011, 48, 543-556.	1.4	57
83	Experimental investigation of reverse end bearing of offshore shallow foundations. Canadian Geotechnical Journal, 2013, 50, 1022-1033.	1.4	56
84	Installation of Suction Caissons in Sand with Silt Layers. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2007, 133, 1183-1191.	1.5	54
85	An image-based deformation measurement system for the geotechnical centrifuge. International Journal of Physical Modelling in Geotechnics, 2005, 5, 01-12.	0.5	53
86	Catastrophic failure in planar landslides with a fully softened weak zone. Geotechnique, 2015, 65, 755-769.	2.2	53
87	The performance of drag anchor and chain systems in cohesive soil. Marine Georesources and Geotechnology, 1996, 14, 77-96.	1.2	51
88	Evaluation of a Minimum Base Resistance for Driven Pipe Piles in Siliceous Sand. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2002, 128, 198-205.	1.5	51
89	Numerical Analysis of T-Bar Penetration in Soft Clay. International Journal of Geomechanics, 2006, 6, 411-420.	1.3	50
90	Parametric Solutions for Slide Impact on Pipelines. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2010, 136, 940-949.	1.5	49

#	ARTICLE	IF	CITATIONS
91	Installation and capacity of dynamically embedded plate anchors as assessed through centrifuge tests. <i>Ocean Engineering</i> , 2014, 88, 204-213.	1.9	48
92	Large deformation analysis of suction caisson installation in clay. <i>Canadian Geotechnical Journal</i> , 2006, 43, 1344-1357.	1.4	47
93	Soil Plug Response in Open-Ended Pipe Piles. <i>Journal of Geotechnical Engineering</i> , 1992, 118, 743-759.	0.4	46
94	Pile Group Analysis: A Study of Two Methods. <i>Journal of Geotechnical Engineering</i> , 1983, 109, 355-372.	0.4	45
95	Estimation of Overall Settlement of Piled Rafts. <i>Soils and Foundations</i> , 1999, 39, 59-68.	1.3	44
96	Coupled consolidation analysis of pipe-soil interactions. <i>Canadian Geotechnical Journal</i> , 2013, 50, 609-619.	1.4	44
97	Analytical solution for ultimate embedment depth and potential holding capacity of plate anchors. <i>Geotechnique</i> , 2015, 65, 517-530.	2.2	44
98	Torsional piles in non-homogeneous media. <i>Computers and Geotechnics</i> , 1996, 19, 265-287.	2.3	43
99	Large Deformation Finite-Element Analysis of Submarine Landslide Interaction with Embedded Pipelines. <i>International Journal of Geomechanics</i> , 2010, 10, 145-152.	1.3	43
100	Failure mechanisms of skirted foundations in uplift and compression. <i>International Journal of Physical Modelling in Geotechnics</i> , 2012, 12, 47-62.	0.5	43
101	Penetrometer Testing: Effect of Partial Consolidation on Subsequent Dissipation Response. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2014, 140, .	1.5	43
102	Automatic element reordering for finite element analysis with frontal solution schemes. <i>International Journal for Numerical Methods in Engineering</i> , 1983, 19, 1153-1181.	1.5	42
103	Numerical study of spudcan penetration in loose sand overlying clay. <i>Computers and Geotechnics</i> , 2012, 46, 1-12.	2.3	40
104	Effect of Installation Method on External Shaft Friction of Caissons in Soft Clay. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2009, 135, 605-615.	1.5	38
105	Influence of padeye offset on bearing capacity of three-dimensional plate anchors. <i>Canadian Geotechnical Journal</i> , 2015, 52, 682-693.	1.4	37
106	A GPU parallel computing strategy for the material point method. <i>Computers and Geotechnics</i> , 2015, 66, 31-38.	2.3	36
107	Kinematic Hardening Model for Pipeline-Soil Interaction under Various Loading Conditions. <i>International Journal of Geomechanics</i> , 2002, 2, 419-446.	1.3	35
108	Interpretation of piezoball dissipation testing in clay. <i>Geotechnique</i> , 2015, 65, 831-842.	2.2	35

#	ARTICLE	IF	CITATIONS
109	Rationality of load transfer approach for pile analysis. <i>Computers and Geotechnics</i> , 1998, 23, 85-112.	2.3	34
110	Numerical modelling of seepage beneath skirted foundations subjected to vertical uplift. <i>Computers and Geotechnics</i> , 2014, 55, 150-157.	2.3	34
111	A model for rock interfacial behaviour. <i>Rock Mechanics and Rock Engineering</i> , 1992, 25, 187-206.	2.6	33
112	Numerical analysis of soil plug behaviour inside open-ended piles during driving. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 1998, 22, 303-322.	1.7	32
113	An Experimental Investigation of a Shallow Skirted Foundation Under Compression and Tension. <i>Soils and Foundations</i> , 2008, 48, 247-254.	1.3	31
114	Finite element modelling of rock-socketed piles. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 1994, 18, 25-47.	1.7	30
115	Dynamic and Static Load Testing of Model Piles Driven into Dense Sand. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 1999, 125, 988-998.	1.5	30
116	Upper-bound and load-displacement solutions for laterally loaded piles in clays based on energy minimisation. <i>Geotechnique</i> , 2008, 58, 815-820.	2.2	30
117	CONSOLIDATION OF A CROSS-ANISOTROPIC SOIL MEDIUM. <i>Quarterly Journal of Mechanics and Applied Mathematics</i> , 1984, 37, 479-495.	0.5	29
118	Dimensionless groups governing response of steel catenary risers. <i>Ocean Engineering</i> , 2013, 74, 247-259.	1.9	29
119	A simple model for inelastic footing response to transient loading. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 1995, 19, 307-329.	1.7	28
120	Analytical Solution for the Consolidation around a Laterally Loaded Pile. <i>International Journal of Geomechanics</i> , 2012, 12, 199-208.	1.3	28
121	Cyclic consolidation and axial friction for seabed pipelines. <i>Geotechnique Letters</i> , 2014, 4, 165-169.	0.6	28
122	Bearing Capacity of Caisson Foundations on Normally Consolidated Clay. <i>Soils and Foundations</i> , 2002, 42, 71-77.	1.3	27
123	Torsional Piles in Two-Layered Nonhomogeneous Soil. <i>International Journal of Geomechanics</i> , 2007, 7, 410-422.	1.3	27
124	Effects of Electrode Configuration on Electrokinetic Stabilization for Caisson Anchors in Calcareous Sand. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2008, 134, 352-365.	1.5	27
125	Elastoplastic consolidation beneath shallowly embedded offshore pipelines. <i>Geotechnique Letters</i> , 2012, 2, 73-79.	0.6	27
126	Spudcan Penetration Analysis for Case Histories in Clay. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2014, 140, .	1.5	27

#	ARTICLE	IF	CITATIONS
127	Considerations on the Design of Keying Flap of Plate Anchors. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2013, 139, 1156-1164.	1.5	26
128	From progressive to catastrophic failure in submarine landslides with curvilinear slope geometries. Geotechnique, 0, , 1-16.	2.2	26
129	Comparing CPTU Q and F and Q vs u vs f vs v_0 vs soil classification charts. Geotechnique Letters, 2012, 2, 209-215.	0.6	25
130	A numerical study of cone penetration in clay. Geotechnique, 2004, 54, 257-267.	2.2	25
131	Runout of submarine landslide simulated with material point method. Journal of Hydrodynamics, 2017, 29, 438-444.	1.3	24
132	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.	0.5	24
133	Simple Formulas for the Response of Shallow Foundations on Compressible Sands. International Journal of Geomechanics, 2008, 8, 230-239.	1.3	23
134	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.	1.5	23
135	Interpretation of piezoball dissipation testing in clay. Geotechnique, 2015, 65, 831-842.	2.2	23
136	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.	1.7	22
137	Spudcan deep penetration in multi-layered fine-grained soils. International Journal of Physical Modelling in Geotechnics, 2011, 11, 100-115.	0.5	22
138	Penetrometer-Based Assessment of Spudcan Penetration Resistance. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2011, 137, 587-596.	1.5	22
139	Large-Deformation Numerical Modeling of Short-Term Compression and Uplift Capacity of Offshore Shallow Foundations. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2014, 140, .	1.5	22
140	Artificial neural network development for stress analysis of steel catenary risers: Sensitivity study and approximation of static stress range. Applied Ocean Research, 2014, 48, 148-161.	1.8	22
141	Experience with a dual pore pressure element piezoball. International Journal of Physical Modelling in Geotechnics, 2016, 16, 101-118.	0.5	22
142	Centrifuge Tests on Dynamically Installed Anchors. , 2009, , .		21
143	Estimating consolidation parameters from field piezoball tests. Geotechnique, 2016, 66, 333-343.	2.2	21
144	Modelling the behaviour of sensitive clays experiencing large deformations using non-local regularisation techniques. Computers and Geotechnics, 2021, 133, 104025.	2.3	21

#	ARTICLE	IF	CITATIONS
145	Penetration Resistance and Stiffness Factors for Hemispherical and Toroidal Penetrometers in Uniform Clay. <i>International Journal of Geomechanics</i> , 2011, 11, 263-275.	1.3	20
146	Hybrid Subsea Foundations for Subsea Equipment. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2013, 139, 2182-2192.	1.5	20
147	Penetrometer testing in a calcareous silt to explore changes in soil strength. <i>Geotechnique</i> , 2020, 70, 1160-1173.	2.2	20
148	Recommended Practice for Full-Flow Penetrometer Testing and Analysis. <i>Geotechnical Testing Journal</i> , 2010, 33, 137-149.	0.5	20
149	Evaluation of Elastic Stiffness Parameters for Pipeline-Soil Interaction. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2016, 142, 04016009.	1.5	19
150	Stability and efficiency studies in the numerical simulation of cone penetration in sand. <i>Geotechnique Letters</i> , 2018, 8, 13-18.	0.6	19
151	Transition from shear band propagation to global slab failure in submarine landslides. <i>Canadian Geotechnical Journal</i> , 2019, 56, 554-569.	1.4	19
152	A new hysteretic seabed model for riser-soil interaction. <i>Marine Structures</i> , 2019, 64, 360-378.	1.6	19
153	Effect of Gapping on the Transient and Sustained Uplift Capacity of a Shallow Skirted Foundation in Clay. <i>Soils and Foundations</i> , 2010, 50, 725-735.	1.3	18
154	Dynamic propagation criteria for catastrophic failure in planar landslides. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2016, 40, 2312-2338.	1.7	18
155	Evaluation of Consolidation Behavior of Mine Tailings. <i>Journal of Geotechnical Engineering</i> , 1994, 120, 473-490.	0.4	17
156	Effect of Recent Load History on Laterally Loaded Piles in Normally Consolidated Clay. <i>International Journal of Geomechanics</i> , 2007, 7, 277-286.	1.3	17
157	Effect of a surficial crust on mudmat capacity under fully three-dimensional loading. <i>Geotechnique</i> , 2015, 65, 590-603.	2.2	17
158	Theoretical framework for predicting the response of tolerably mobile subsea installations. <i>Geotechnique</i> , 2017, 67, 608-620.	2.2	17
159	Finite element analyses of soil plug response. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 1991, 15, 121-141.	1.7	16
160	Numerical Study of the Effect of Foundation Size for a Wide Range of Sands. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2009, 135, 37-45.	1.5	16
161	The State of Knowledge of Pipe-Soil Interaction for On-Bottom Pipeline Design. , 2017, , .		16
162	Pile response to multi-directional lateral loading using σ_y curves approach. <i>Geotechnique</i> , 2021, 71, 288-298.	2.2	16

#	ARTICLE	IF	CITATIONS
163	Investigations on the dynamic behavior of a small-diameter pile driven in soft clay. Canadian Geotechnical Journal, 2009, 46, 1418-1430.	1.4	15
164	Offshore Design Approaches and Model Tests for Sub-Failure Cyclic Loading of Foundations. CISM International Centre for Mechanical Sciences, Courses and Lectures, 2012, , 441-480.	0.3	15
165	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.	1.9	15
166	Runout of Submarine Landslide Simulated with Material Point Method. Procedia Engineering, 2017, 175, 357-364.	1.2	15
167	Subsea pipeline walking with velocity dependent seabed friction. Applied Ocean Research, 2019, 82, 296-308.	1.8	15
168	A smoothed particle hydrodynamics modelling of soil-water mixing and resulting changes in average strength. International Journal for Numerical and Analytical Methods in Geomechanics, 2020, 44, 1548-1569.	1.7	14
169	Effects of Monopile Installation on Subsequent Lateral Response in Sand. I: Pile Installation. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2021, 147, .	1.5	14
170	The Influence of Seabed Response on Fatigue Performance of Steel Catenary Risers in Touchdown Zone. , 2010, , .		13
171	Sensitivity studies of SCR fatigue damage in the touchdown zone using an efficient simplified framework for stress range evaluation. Ocean Engineering, 2015, 96, 295-311.	1.9	13
172	Approximation of the maximum dynamic stress range in steel catenary risers using artificial neural networks. Engineering Structures, 2015, 92, 172-185.	2.6	13
173	Improved concept of lithospheric strength and earthquake activity at shallow depths based upon the fan-head dynamic shear rupture mechanism. Tectonophysics, 2016, 667, 124-143.	0.9	13
174	Bearing capacity on sand overlying clay: An analytical model for predicting post peak behaviour. Marine Structures, 2018, 59, 94-104.	1.6	13
175	Numerical Study of Mobilized Friction along Embedded Catenary Mooring Chains. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2019, 145, .	1.5	13
176	Numerical investigations of the effect of strain softening on the behaviour of embedded mooring chains. Applied Ocean Research, 2019, 92, 101944.	1.8	13
177	Numerical Investigations into Development of Seabed Trenching in Semitaut Moorings. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2020, 146, .	1.5	13
178	Physical and Numerical Simulation of Shallow Penetration of a Cylindrical Object into Soft Clay. , 2008, , .		12
179	A Parametric Study on Effects of Environmental Loadings on Fatigue Life of Steel Catenary Risers (Using a Nonlinear Cyclic Riser-Soil Interaction Model). , 2010, , .		12
180	Refined analytical models for pipe-lay on elasto-plastic seabed. Applied Ocean Research, 2014, 48, 292-300.	1.8	12

#	ARTICLE	IF	CITATIONS
181	Numerical Investigation of Diving Potential and Optimization of Offshore Anchors. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2018, 144, .	1.5	12
182	Effectiveness of Effective Area Method for Assessing Undrained Capacity of Shallow Rectangular Foundations. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2019, 145, .	1.5	12
183	Optimization of Impact Pile Driving Using Optical Fiber Bragg-Grating Measurements. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2020, 146, .	1.5	12
184	Upslope Failure Mechanisms and Criteria in Submarine Landslides: Shear Band Propagation, Slab Failure and Retrogression. Journal of Geophysical Research: Solid Earth, 2021, 126, e2021JB022041.	1.4	12
185	Experimental Study of Suction Installation of Caissons in Dense Sand. , 2004, , 105.		11
186	Offshore Geotechnics - The Challenges of Deepwater Soft Sediments. , 2012, , .		11
187	The portable piezoprobe for determining c and strength ϕ modelling and interpretation methods. Geotechnique, 2019, 69, 458-469.	2.2	11
188	Criteria for planar shear band propagation in submarine landslides along weak layers. Landslides, 2020, 17, 855-876.	2.7	11
189	Consolidation effects on monotonic and cyclic capacity of plate anchors in sand. Geotechnique, 2020, 70, 720-731.	2.2	11
190	A Bayesian machine learning approach to rapidly quantifying the fatigue probability of failure for steel catenary risers. Ocean Engineering, 2021, 235, 109353.	1.9	11
191	Laboratory development of a vertically oriented penetrometer for shallow seabed characterization. Canadian Geotechnical Journal, 2016, 53, 93-102.	1.4	10
192	Effect of pipeline-seabed gaps on the vertical forces of a pipeline induced by submarine slide impact. Ocean Engineering, 2021, 221, 108506.	1.9	10
193	Large deformation coupled analysis of embedded pipeline "Soil lateral interaction. Marine Structures, 2021, 78, 102971.	1.6	10
194	The Complementary Roles of Physical and Computational Modelling. International Journal of Physical Modelling in Geotechnics, 2001, 1, 1-8.	0.5	9
195	Generalized Framework for Three-Dimensional Upper Bound Limit Analysis in a Tresca Material. Journal of Applied Mechanics, Transactions ASME, 2003, 70, 91-100.	1.1	9
196	An analytical solution for the undrained horizontal torsional resistance of mudmats. Geotechnique, 2017, 67, 325-337.	2.2	9
197	Effect of installation method on static and dynamic load test response for piles in sand. International Journal of Physical Modelling in Geotechnics, 2020, 20, 1-23.	0.5	9
198	Parametric solution of lateral buckling of submarine pipelines. Applied Ocean Research, 2020, 98, 102077.	1.8	9

#	ARTICLE	IF	CITATIONS
199	A comparison of the combined load behaviour of spudcan and caisson foundations on soft normally consolidated clay. <i>Geotechnique</i> , 2004, 54, 91-106.	2.2	9
200	Comparison of transmitting boundaries in dynamic finite element analyses using explicit time integration. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 1986, 10, 329-342.	1.7	8
201	Installation and Pull-Out Capacities of Drag-In Plate Anchors. , 2002, , 879.		8
202	Bearing Behaviour of Spudcan Foundation on Uniform Clay During Deep Penetration. , 2004, , 321.		8
203	Geotechnical Centrifuge Modelling Techniques for Submarine Slides. , 2009, , .		8
204	A Toolbox for Optimizing Geotechnical Design of Subsea Foundations. , 2017, , .		8
205	Characterization of the Solid-Fluid Transition of Fine-Grained Sediments. , 2009, , .		7
206	Response of a solid infinite cylinder embedded in a poroelastic medium and subjected to a lateral load. <i>International Journal of Solids and Structures</i> , 2010, 47, 2414-2424.	1.3	7
207	Centrifuge modelling of pipe-soil interaction in clay with crust layer. <i>Marine Structures</i> , 2021, 75, 102876.	1.6	7
208	The influence of pipeline-backfill-trench interaction on the lateral soil resistance: A numerical investigation. <i>Computers and Geotechnics</i> , 2021, 137, 104307.	2.3	7
209	Effects of pore water pressure dissipation on rate dependency of shear strength in localised failure of soils. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2015, 39, 1045-1062.	1.7	6
210	Effect of the installation process on monopile lateral response. <i>Proceedings of the Institution of Civil Engineers: Geotechnical Engineering</i> , 2021, 174, 530-548.	0.9	6
211	Centrifuge Modelling of Drained Behaviour for Pipelines Shallowly Embedded in Calcareous Sand. <i>International Journal of Physical Modelling in Geotechnics</i> , 2001, 1, 25-39.	0.5	6
212	Numerical assessment of tip damage during pile installation in boulder-rich soils. <i>Geotechnique</i> , 2024, 74, 193-204.	2.2	6
213	Numerical Simulations of Dynamic Embedment During Pipe Laying on Soft Clay. , 2009, , .		5
214	A New User Defined Element for Nonlinear Riser-Soil Interaction Analysis of Steel Catenary Riser Systems. , 2016, , .		5
215	The Impact of Submarine Slides on Pipelines: Outcomes from the COFS-MERIWA JIP. , 2016, , .		5
216	Effect of soil biology and pore water chemistry on a lakebed sediment. <i>Geotechnique</i> , 2019, 69, 959-970.	2.2	5

#	ARTICLE	IF	CITATIONS
217	The Dynamically Embedded Plate Anchor: Results From an Experimental and Numerical Study. , 2013, , .		4
218	Upper bound analysis of uplift capacity of a tapered plate anchor in cohesive soil. Geotechnique Letters, 2015, 5, 205-211.	0.6	4
219	Relationships between lateral and rotational load transfer stiffnesses and soil modulus for the elastic response of monopiles. Computers and Geotechnics, 2021, 137, 104256.	2.3	4
220	Bearing Capacity of a Skirted Foundation Under VMH Loading. , 2003, , 413.		3
221	Deep Penetration of Spudcan Foundation Into NC Clay. , 2004, , 329.		3
222	The Effect of Partial Drainage on Measurements by a Piezoball Penetrometer. , 2011, , .		3
223	Modelling the static stressâ€“strain state around the fan-structure in the shear rupture head. Applied Mathematical Modelling, 2018, 57, 268-279.	2.2	3
224	A complete analytical solution for axial pipeline walking considering seabed resistance as rigid plastic behaviour. Geotechnique, 2022, 72, 810-824.	2.2	3
225	Improved Relationships for the Pile Base Response in Clayey Soils. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2021, 147, .	1.5	3
226	Evolution of Riser-Soil Stiffness in a Soil Crust Layer. Lecture Notes in Civil Engineering, 2019, , 130-136.	0.3	3
227	Buckling of monopod bucket foundations-influence of boundary conditions and soil-structure interaction. Wind and Structures, an International Journal, 2015, 21, 641-656.	0.8	3
228	Electrochemical stabilisation for offshore model caissons. Proceedings of the Institution of Civil Engineers: Ground Improvement, 2008, 161, 131-141.	0.7	2
229	Video Observations of Dynamic Embedment During Pipelaying in Soft Clay. , 2009, , .		2
230	Consolidation effects on uplift capacity of shallow horizontal plate anchors in dilating sand. Geotechnique, 2022, 72, 957-973.	2.2	2
231	Design of Anchoring Systems for Deep Water Soft Sediments. Lecture Notes in Civil Engineering, 2020, , 1-28.	0.3	2
232	Closure to â€œEffect of Penetration Rate on Penetrometer Resistance in Clayâ€•by Shin Fun Chung, Mark F. Randolph, and James A. Schneider. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2008, 134, 552-553.	1.5	1
233	Experimental Investigation of the Undrained Response of a Shallow Skirted Foundation Subjected to Vertical Compression and Uplift. , 2011, , .		1
234	Analysis of Axial Response of Submarine Pipeline to Debris-Flow Loading. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2021, 147, 06020029.	1.5	1

#	ARTICLE	IF	CITATIONS
235	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.	1.7	1
236	Centrifuge modelling of whole-life pipe-soil interaction in clay with different overconsolidation ratios. Geotechnique, 0, , 1-37.	2.2	1
237	A viscoplastic recoverable sensitivity model for fine-grained soils. Computers and Geotechnics, 2022, 147, 104725.	2.3	1
238	Discussion of "Dynamic Determination of Pile Capacity" by Frank Rausche, George G. Goble, and Garland E. Likins, Jr. (March, 1985, Vol. 111, No. 3). Journal of Geotechnical Engineering, 1987, 113, 1060-1062.	0.4	0
239	Discussion of "Rational Wave Equation Model for Pile Driving Analysis" by S. L. Lee, Y. K. Chow, G. P. Karunaratne, and K. Y. Wong (March, 1988, Vol. 114, No. 3). Journal of Geotechnical Engineering, 1989, 115, 1191-1195.	0.4	0
240	Closure to "Tensile and Compressive Shaft Capacity of Piles in Sand" by Anthony De Nicola and Mark F. Randolph. Journal of Geotechnical Engineering, 1995, 121, 404-405.	0.4	0
241	Lateral Movement of Pipelines on a Soft Clay Seabed: Large Deformation Finite Element Analysis. , 2011, , .		0
242	Closure to "Evaluation of Remolded Shear Strength and Sensitivity of Soft Clay Using Full-Flow Penetrometers" by Nicholas Yafrate, Jason DeJong, Don DeGroot, and Mark Randolph. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2011, 137, 440-441.	1.5	0
243	Lazy Wave Catenary Risers: Scaling Factors and Analytical Approximation of the Static Stress Range in the Touchdown Zone. , 2013, , .		0
244	On the calculation of cumulative strain around full-flow penetrometers in steady-state conditions. International Journal for Numerical and Analytical Methods in Geomechanics, 2015, 39, 368-387.	1.7	0
245	Three-Dimensional Large Deformation Analyses of Plate Anchor Keying in Clay. , 2008, , .		0
246	Evaluation of the Remoulded Shear Strength of Offshore Clays and Application to Pipeline-Soil and Riser-Soil Interaction. CISM International Centre for Mechanical Sciences, Courses and Lectures, 2012, , 529-573.	0.3	0
247	Interpretation of Interbedded Thin "Soft Layer Properties from T-Bar Penetration Tests. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2022, 148, .	1.5	0