

Christophe Gaudin

List of Publications by Year in descending order

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Version: 2024-02-01

77
papers

2,492
citations

201385

27
h-index

223531

46
g-index

80
all docs

80
docs citations

80
times ranked

721
citing authors

#	ARTICLE	IF	CITATIONS
1	Rate effects on penetrometer resistance in kaolin. <i>Geotechnique</i> , 2009, 59, 41-52.	2.2	164
2	Recent advances in offshore geotechnics for deep water oil and gas developments. <i>Ocean Engineering</i> , 2011, 38, 818-834.	1.9	155
3	Interpretation of T-bar penetrometer tests at shallow embedment and in very soft soils. <i>Canadian Geotechnical Journal</i> , 2010, 47, 218-229.	1.4	151
4	Mechanisms of pipe embedment and lateral breakout on soft clay. <i>Canadian Geotechnical Journal</i> , 2008, 45, 636-652.	1.4	122
5	Penetration of dynamically installed anchors in clay. <i>Geotechnique</i> , 2013, 63, 909-919.	2.2	99
6	A simple implementation of RITSS and its application in large deformation analysis. <i>Computers and Geotechnics</i> , 2014, 56, 160-167.	2.3	83
7	A plasticity model to assess the keying of plate anchors. <i>Geotechnique</i> , 2012, 62, 825-836.	2.2	81
8	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
9	Scale effects on tension capacity for rough piles buried in dense sand. <i>Geotechnique</i> , 2005, 55, 709-719.	2.2	75
10	Numerical modelling of a hybrid skirted foundation under combined loading. <i>Computers and Geotechnics</i> , 2012, 45, 127-139.	2.3	75
11	Influence of the installation process on the performance of suction embedded plate anchors. <i>Geotechnique</i> , 2006, 56, 381-391.	2.2	70
12	Uplift behaviour of helical anchors in clay. <i>Canadian Geotechnical Journal</i> , 2013, 50, 575-584.	1.4	66
13	Experimental Investigation of Installation and Pullout of Dynamically Penetrating Anchors in Clay and Silt. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2014, 140, .	1.5	58
14	Centrifuge modelling of active slideâ€“pipeline loading in soft clay. <i>Geotechnique</i> , 2014, 64, 16-27.	2.2	55
15	Centrifuge study on the cyclic performance of caissons in sand. <i>International Journal of Physical Modelling in Geotechnics</i> , 2014, 14, 99-115.	0.5	49
16	Installation and capacity of dynamically embedded plate anchors as assessed through centrifuge tests. <i>Ocean Engineering</i> , 2014, 88, 204-213.	1.9	48
17	Capacity of dynamically installed anchors as assessed through field testing and three-dimensional large-deformation finite element analyses. <i>Canadian Geotechnical Journal</i> , 2015, 52, 548-562.	1.4	44
18	Tensile monotonic capacity of helical anchors in sand: interaction between helices. <i>Canadian Geotechnical Journal</i> , 2019, 56, 1534-1543.	1.4	42

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19	Uniaxial Capacities of Skirted Circular Foundations in Clay. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2017, 143, .	1.5	40
20	Effect of time on spudcan footprint interaction in clay. <i>Geotechnique</i> , 2012, 62, 401-413.	2.2	39
21	Effects of preloading with consolidation on undrained bearing capacity of skirted circular footings. <i>Geotechnique</i> , 2015, 65, 231-246.	2.2	38
22	Rate effects on the vertical uplift capacity of footings founded in clay. <i>Geotechnique</i> , 2008, 58, 13-21.	2.2	37
23	Influence of padeye offset on bearing capacity of three-dimensional plate anchors. <i>Canadian Geotechnical Journal</i> , 2015, 52, 682-693.	1.4	37
24	Advancing pipe soil interaction models in calcareous sand. <i>Applied Ocean Research</i> , 2010, 32, 284-297.	1.8	36
25	Recent contributions of geotechnical centrifuge modelling to the understanding of jack-up spudcan behaviour. <i>Ocean Engineering</i> , 2011, 38, 900-914.	1.9	32
26	Experimental study of effect of geometry on reinstallation of jack-up next to footprint. <i>Canadian Geotechnical Journal</i> , 2013, 50, 557-573.	1.4	32
27	Undrained capacity of a hybrid subsea skirted mat with caissons under combined loading. <i>Canadian Geotechnical Journal</i> , 2014, 51, 934-949.	1.4	29
28	The influence of pull-out load on the efficiency of jetting during spudcan extraction. <i>Applied Ocean Research</i> , 2009, 31, 202-211.	1.8	28
29	Predicting the undrained capacity of skirted spudcans under combined loading. <i>Ocean Engineering</i> , 2013, 74, 178-188.	1.9	28
30	The influence of padeye offset on plate anchor re-embedding behaviour. <i>Geotechnique Letters</i> , 2014, 4, 39-44.	0.6	28
31	Improving Plate Anchor Design with a Keying Flap. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2014, 140, .	1.5	28
32	Behaviour of vertically loaded plate anchors under sustained uplift. <i>Geotechnique</i> , 2016, 66, 681-693.	2.2	28
33	Investigation of the vertical uplift capacity of deep water mudmats in clay. <i>Canadian Geotechnical Journal</i> , 2012, 49, 853-865.	1.4	26
34	Considerations on the Design of Keying Flap of Plate Anchors. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2013, 139, 1156-1164.	1.5	26
35	Drained cyclic capacity of plate anchors in dense sand: Experimental and theoretical observations. <i>Geotechnique Letters</i> , 2015, 5, 80-85.	0.6	25
36	Capacity of dynamically embedded plate anchors as assessed through field tests. <i>Canadian Geotechnical Journal</i> , 2015, 52, 87-95.	1.4	24

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37	Effect of perforations on uplift capacity of skirted foundations on clay. Canadian Geotechnical Journal, 2014, 51, 322-331.	1.4	22
38	Large deformation finite element analysis investigating the performance of anchor keying flap. Ocean Engineering, 2013, 59, 107-116.	1.9	21
39	Mechanisms of soil flow during submarine slide-pipe impact. Ocean Engineering, 2019, 186, 106079.	1.9	21
40	Hybrid Subsea Foundations for Subsea Equipment. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2013, 139, 2182-2192.	1.5	20
41	Strength properties of ultra-soft kaolin. Canadian Geotechnical Journal, 2014, 51, 420-431.	1.4	18
42	Spudcan extraction from deep embedment in soft clay. Applied Ocean Research, 2014, 48, 126-136.	1.8	18
43	MEMS accelerometers for measuring dynamic penetration events in geotechnical centrifuge tests. International Journal of Physical Modelling in Geotechnics, 2014, 14, 31-39.	0.5	18
44	The effect of water jetting on spudcan extraction from deep embedment in soft clay. Ocean Engineering, 2015, 97, 90-99.	1.9	18
45	Failure mechanisms of a spudcan penetrating next to an existing footprint. Theoretical and Applied Mechanics Letters, 2015, 5, 64-68.	1.3	17
46	Incorporating Shank Resistance into Prediction of the Keying Behavior of Suction Embedded Plate Anchors. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2015, 141, .	1.5	17
47	Towards a simple design procedure for dynamically embedded plate anchors. Geotechnique, 2016, 66, 741-753.	2.2	16
48	Physical modelling of the push-over capacity of a jack-up structure on sand in a geotechnical centrifuge. Canadian Geotechnical Journal, 2009, 46, 190-207.	1.4	15
49	In Situ Measurement of the Dynamic Penetration of Free-Fall Projectiles in Soft Soils Using a Low-Cost Inertial Measurement Unit. Geotechnical Testing Journal, 2016, 39, 235-251.	0.5	14
50	Recent Advances in Anchor Design for Floating Structures. International Journal of Offshore and Polar Engineering, 2017, 27, 44-53.	0.3	14
51	Comparison of failure modes below footings on carbonate and silica sands. International Journal of Physical Modelling in Geotechnics, 2013, 13, 1-12.	0.5	13
52	The Performance of Dynamically Embedded Anchors in Calcareous Silt. , 2013, , .		12
53	Numerical Investigation of Diving Potential and Optimization of Offshore Anchors. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2018, 144, .	1.5	12
54	Interpreting T-bar tests in ultra-soft clay. International Journal of Physical Modelling in Geotechnics, 2014, 14, 13-19.	0.5	11

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55	Consolidation effects on monotonic and cyclic capacity of plate anchors in sand. <i>Geotechnique</i> , 2020, 70, 720-731.	2.2	11
56	Comparative study of the compression and uplift of shallow foundations. <i>Computers and Geotechnics</i> , 2015, 69, 38-45.	2.3	10
57	Laboratory development of a vertically oriented penetrometer for shallow seabed characterization. <i>Canadian Geotechnical Journal</i> , 2016, 53, 93-102.	1.4	10
58	Physical and numerical study of the combined bearing capacity of hybrid foundation systems. <i>Ocean Engineering</i> , 2019, 179, 104-115.	1.9	9
59	Behavior of Geosynthetic-Reinforced Piled Embankments with Defective Piles. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2019, 145, 04019090.	1.5	8
60	A framework for the design of vertically loaded piles in spatially variable soil. <i>Computers and Geotechnics</i> , 2021, 134, 104140.	2.3	8
61	Experimental Investigation of the Effect of Cyclic Loading on Spudcan Extraction. <i>Journal of Offshore Mechanics and Arctic Engineering</i> , 2016, 138, .	0.6	7
62	Centrifuge modelling of pipe-soil interaction in clay with crust layer. <i>Marine Structures</i> , 2021, 75, 102876.	1.6	7
63	Capacity of plate anchors in clay under sustained uplift. <i>Ocean Engineering</i> , 2021, 226, 108799.	1.9	7
64	Development of a real-time hybrid testing method in a centrifuge. <i>International Journal of Physical Modelling in Geotechnics</i> , 2015, 15, 169-190.	0.5	6
65	Numerical assessment of tip damage during pile installation in boulder-rich soils. <i>Geotechnique</i> , 2024, 74, 193-204.	2.2	6
66	Experiments Using a Novel Penetrometer to Assess Changing Strength of Clay during Remolding and Reconsolidation. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2017, 143, 06016030.	1.5	5
67	The Dynamically Embedded Plate Anchor: Results From an Experimental and Numerical Study. , 2013, , .		4
68	Improving force resultant model for anchors in clays from large deformation finite element analysis. <i>Marine Georesources and Geotechnology</i> , 2019, 37, 1227-1235.	1.2	4
69	Centrifuge Experiments to Study Extraction of a Deeply Embedded Spudcan Using Top Jetting. , 2013, , .		3
70	Drained response of rigid piles in sand under an inclined tensile load. <i>Geotechnique Letters</i> , 2020, 10, 30-37.	0.6	3
71	Sustained Uplift of Skirted Foundation in Clay. , 2014, , .		2
72	Influence of stress history on undrained cyclic shear strength evolution. <i>Canadian Geotechnical Journal</i> , 2022, 59, 1020-1032.	1.4	1

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73	Centrifuge modelling of whole-life pipe-soil interaction in clay with different overconsolidation ratios. <i>Geotechnique</i> , 0, , 1-37.	2.2	1
74	Push-Over Response of a Jack-Up on Sand of Different Relative Densities. , 2009, , .		0
75	Jack-Up Installation on an Uneven Seabed: Recommendations From Model Testing in Overconsolidated Clay. , 2009, , .		0
76	Uniaxial Bearing Capacity Factors and Failure Mechanisms for Skirted Spudcans. , 2013, , .		0
77	Sustainability in an Era of Increasing Energy Demand: Challenges for Offshore Geotechnics. , 2014, , .		0