Christophe Gaudin

List of Publications by Year
in descending order

77	2,492	201385 27	223531 46
papers	citations	h-index	g-index

80	80	80	721
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Numerical assessment of tip damage during pile installation in boulder-rich soils. Geotechnique, 2024, 74, 193-204.	2.2	6
2	Influence of stress history on undrained cyclic shear strength evolution. Canadian Geotechnical Journal, 2022, 59, 1020-1032.	1.4	1
3	Centrifuge modelling of pipe-soil interaction in clay with crust layer. Marine Structures, 2021, 75, 102876.	1.6	7
4	Capacity of plate anchors in clay under sustained uplift. Ocean Engineering, 2021, 226, 108799.	1.9	7
5	A framework for the design of vertically loaded piles in spatially variable soil. Computers and Geotechnics, 2021, 134, 104140.	2.3	8
6	Drained response of rigid piles in sand under an inclined tensile load. Geotechnique Letters, 2020, 10, 30-37.	0.6	3
7	Consolidation effects on monotonic and cyclic capacity of plate anchors in sand. Geotechnique, 2020, 70, 720-731.	2.2	11
8	Behavior of Geosynthetic-Reinforced Piled Embankments with Defective Piles. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2019, 145, 04019090.	1.5	8
9	Mechanisms of soil flow during submarine slide-pipe impact. Ocean Engineering, 2019, 186, 106079.	1.9	21
10	Physical and numerical study of the combined bearing capacity of hybrid foundation systems. Ocean Engineering, 2019, 179, 104-115.	1.9	9
11	Improving force resultant model for anchors in clays from large deformation finite element analysis. Marine Georesources and Geotechnology, 2019, 37, 1227-1235.	1.2	4
12	Tensile monotonic capacity of helical anchors in sand: interaction between helices. Canadian Geotechnical Journal, 2019, 56, 1534-1543.	1.4	42
13	Numerical Investigation of Diving Potential and Optimization of Offshore Anchors. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2018, 144, .	1.5	12
14	Uniaxial Capacities of Skirted Circular Foundations in Clay. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2017, 143, .	1.5	40
15	Experiments Using a Novel Penetrometer to Assess Changing Strength of Clay during Remolding and Reconsolidation. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2017, 143, 06016030.	1.5	5
16	Recent Advances in Anchor Design for Floating Structures. International Journal of Offshore and Polar Engineering, 2017, 27, 44-53.	0.3	14
17	Experimental Investigation of the Effect of Cyclic Loading on Spudcan Extraction. Journal of Offshore Mechanics and Arctic Engineering, 2016, 138, .	0.6	7
18	Towards a simple design procedure for dynamically embedded plate anchors. Geotechnique, 2016, 66, 741-753.	2.2	16

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19	Behaviour of vertically loaded plate anchors under sustained uplift. Geotechnique, 2016, 66, 681-693.	2.2	28
20	Laboratory development of a vertically oriented penetrometer for shallow seabed characterization. Canadian Geotechnical Journal, 2016, 53, 93-102.	1.4	10
21	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
22	Development of a real-time hybrid testing method in a centrifuge. International Journal of Physical Modelling in Geotechnics, 2015, 15, 169-190.	0.5	6
23	Drained cyclic capacity of plate anchors in dense sand: Experimental and theoretical observations. Geotechnique Letters, 2015, 5, 80-85.	0.6	25
24	Comparative study of the compression and uplift of shallow foundations. Computers and Geotechnics, 2015, 69, 38-45.	2.3	10
25	Failure mechanisms of a spudcan penetrating next to an existing footprint. Theoretical and Applied Mechanics Letters, 2015, 5, 64-68.	1.3	17
26	The effect of water jetting on spudcan extraction from deep embedment in soft clay. Ocean Engineering, 2015, 97, 90-99.	1.9	18
27	Capacity of dynamically embedded plate anchors as assessed through field tests. Canadian Geotechnical Journal, 2015, 52, 87-95.	1.4	24
28	Effects of preloading with consolidation on undrained bearing capacity of skirted circular footings. Geotechnique, 2015, 65, 231-246.	2.2	38
29	Influence of padeye offset on bearing capacity of three-dimensional plate anchors. Canadian Geotechnical Journal, 2015, 52, 682-693.	1.4	37
30	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
31	Capacity of dynamically installed anchors as assessed through field testing and three-dimensional large-deformation finite element analyses. Canadian Geotechnical Journal, 2015, 52, 548-562.	1.4	44
32	Sustained Uplift of Skirted Foundation in Clay. , 2014, , .		2
33	The influence of padeye offset on plate anchor re-embedding behaviour. Geotechnique Letters, 2014, 4, 39-44.	0.6	28
34	Sustainability in an Era of Increasing Energy Demand: Challenges for Offshore Geotechnics. , 2014, , .		0
35	Centrifuge modelling of active slideâ€“pipeline loading in soft clay. Geotechnique, 2014, 64, 16-27.	2.2	55
36	Improving Plate Anchor Design with a Keying Flap. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2014, 140, .	1.5	28

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37	Experimental Investigation of Installation and Pullout of Dynamically Penetrating Anchors in Clay and Silt. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2014, 140, .	1.5	58
38	A simple implementation of RITSS and its application in large deformation analysis. Computers and Geotechnics, 2014, 56, 160-167.	2.3	83
39	Strength properties of ultra-soft kaolin. Canadian Geotechnical Journal, 2014, 51, 420-431.	1.4	18
40	Effect of perforations on uplift capacity of skirted foundations on clay. Canadian Geotechnical Journal, 2014, 51, 322-331.	1.4	22
41	Installation and capacity of dynamically embedded plate anchors as assessed through centrifuge tests. Ocean Engineering, 2014, 88, 204-213.	1.9	48
42	Undrained capacity of a hybrid subsea skirted mat with caissons under combined loading. Canadian Geotechnical Journal, 2014, 51, 934-949.	1.4	29
43	Spudcan extraction from deep embedment in soft clay. Applied Ocean Research, 2014, 48, 126-136.	1.8	18
44	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
45	Interpreting T-bar tests in ultra-soft clay. International Journal of Physical Modelling in Geotechnics, 2014, 14, 13-19.	0.5	11
46	Centrifuge study on the cyclic performance of caissons in sand. International Journal of Physical Modelling in Geotechnics, 2014, 14, 99-115.	0.5	49
47	Predicting the undrained capacity of skirted spudcans under combined loading. Ocean Engineering, 2013, 74, 178-188.	1.9	28
48	Uplift behaviour of helical anchors in clay. Canadian Geotechnical Journal, 2013, 50, 575-584.	1.4	66
49	Large deformation finite element analysis investigating the performance of anchor keying flap. Ocean Engineering, 2013, 59, 107-116.	1.9	21
50	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
51	Centrifuge Experiments to Study Extraction of a Deeply Embedded Spudcan Using Top Jetting. , 2013, , .		3
52	The Dynamically Embedded Plate Anchor: Results From an Experimental and Numerical Study. , 2013, , .		4
53	Penetration of dynamically installed anchors in clay. Geotechnique, 2013, 63, 909-919.	2.2	99
54	Considerations on the Design of Keying Flap of Plate Anchors. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2013, 139, 1156-1164.	1.5	26

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55	Hybrid Subsea Foundations for Subsea Equipment. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2013, 139, 2182-2192.	1.5	20
56	Experimental study of effect of geometry on reinstallation of jack-up next to footprint. Canadian Geotechnical Journal, 2013, 50, 557-573.	1.4	32
57	Uniaxial Bearing Capacity Factors and Failure Mechanisms for Skirted Spudcans. , 2013, , .		0
58	The Performance of Dynamically Embedded Anchors in Calcareous Silt. , 2013, , .		12
59	Effect of time on spudcanâ€“footprint interaction in clay. Geotechnique, 2012, 62, 401-413.	2.2	39
60	A plasticity model to assess the keying of plate anchors. Geotechnique, 2012, 62, 825-836.	2.2	81
61	Investigation of the vertical uplift capacity of deep water mudmats in clay. Canadian Geotechnical Journal, 2012, 49, 853-865.	1.4	26
62	Numerical modelling of a hybrid skirted foundation under combined loading. Computers and Geotechnics, 2012, 45, 127-139.	2.3	75
63	Recent advances in offshore geotechnics for deep water oil and gas developments. Ocean Engineering, 2011, 38, 818-834.	1.9	155
64	Recent contributions of geotechnical centrifuge modelling to the understanding of jack-up spudcan behaviour. Ocean Engineering, 2011, 38, 900-914.	1.9	32
65	Advancing pipeâ€“soil interaction models in calcareous sand. Applied Ocean Research, 2010, 32, 284-297.	1.8	36
66	Interpretation of T-bar penetrometer tests at shallow embedment and in very soft soils. Canadian Geotechnical Journal, 2010, 47, 218-229.	1.4	151
67	Push-Over Response of a Jack-Up on Sand of Different Relative Densities. , 2009, , .		0
68	Setup Following Installation of Dynamic Anchors in Normally Consolidated Clay. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2009, 135, 487-496.	1.5	78
69	The influence of pull-out load on the efficiency of jetting during spudcan extraction. Applied Ocean Research, 2009, 31, 202-211.	1.8	28
70	Rate effects on penetrometer resistance in kaolin. Geotechnique, 2009, 59, 41-52.	2.2	164
71	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
72	Jack-Up Installation on an Uneven Seabed: Recommendations From Model Testing in Overconsolidated Clay. , 2009, , .		0

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73	Mechanisms of pipe embedment and lateral breakout on soft clay. Canadian Geotechnical Journal, 2008, 45, 636-652.	1.4	122
74	Rate effects on the vertical uplift capacity of footings founded in clay. Geotechnique, 2008, 58, 13-21.	2.2	37
75	Influence of the installation process on the performance of suction embedded plate anchors. Geotechnique, 2006, 56, 381-391.	2.2	70
76	Scale effects on tension capacity for rough piles buried in dense sand. Geotechnique, 2005, 55, 709-719.	2.2	75
77	Centrifuge modelling of whole-life pipe-soil interaction in clay with different overconsolidation ratios. Geotechnique, 0, , 1-37.	2.2	1