

Britta Bienen

List of Publications by Year in descending order

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72
papers

1,783
citations

236912

25
h-index

315719

38
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74
all docs

74
docs citations

74
times ranked

614
citing authors

#	ARTICLE	IF	CITATIONS
1	Aspects of soft clay behaviour important for correct prediction of spudcan foundation penetration. Computers and Geotechnics, 2022, 142, 104552.	4.7	0
2	A viscoplastic recoverable sensitivity model for fine-grained soils. Computers and Geotechnics, 2022, 147, 104725.	4.7	1
3	Numerical pushover analysis of jack-up units in soft clay overlying sand. Ocean Engineering, 2022, 258, 111762.	4.3	2
4	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.	0.6	24
5	Modelling the behaviour of sensitive clays experiencing large deformations using non-local regularisation techniques. Computers and Geotechnics, 2021, 133, 104025.	4.7	21
6	Effects of Monopile Installation on Subsequent Lateral Response in Sand. I: Pile Installation. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2021, 147, .	3.0	14
7	Effects of Monopile Installation on Subsequent Lateral Response in Sand. II: Lateral Loading. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2021, 147, .	3.0	10
8	Evaluating the Penetration Resistance of Spudcan Foundations in Clay Overlying Sand. International Journal of Offshore and Polar Engineering, 2021, 31, 243-253.	0.8	2
9	Influence of Low-Permeability Layers on the Installation and the Response to Vertical Cyclic Loading of Suction Caissons. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2021, 147, .	3.0	9
10	Effect of the installation process on monopile lateral response. Proceedings of the Institution of Civil Engineers: Geotechnical Engineering, 2021, 174, 530-548.	1.6	6
11	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.	0.6	9
12	Observations during suction bucket installation in sand. International Journal of Physical Modelling in Geotechnics, 2020, 20, 132-149.	0.6	12
13	Numerical Investigation of Bearing Capacity of Spudcan Foundations in Clay Overlying Sand under Combined Loading. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2020, 146, .	3.0	12
14	Observations of the Effects of a Clay Layer on Suction Bucket Installation in Sand. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2020, 146, .	3.0	17
15	Combined loading capacity of skirted circular foundations in loose sand. Ocean Engineering, 2019, 183, 57-72.	4.3	10
16	Suction caisson foundations for offshore wind energy: cyclic response in sand and sand over clay. Geotechnique, 2019, 69, 924-931.	4.0	22
17	Stability and efficiency studies in the numerical simulation of cone penetration in sand. Geotechnique Letters, 2018, 8, 13-18.	1.2	19
18	Suction caissons in dense sand, part I: installation, limiting capacity and drainage. Geotechnique, 2018, 68, 937-952.	4.0	41

#	ARTICLE	IF	CITATIONS
19	Suction caissons in dense sand, part II: vertical cyclic loading into tension. <i>Geotechnique</i> , 2018, 68, 953-967.	4.0	29
20	Post-preload undrained uniaxial capacities of skirted circular foundations in clay. <i>Ocean Engineering</i> , 2018, 147, 355-369.	4.3	14
21	The response of suction caissons to long-term lateral cyclic loading in single-layer and layered seabeds. <i>Geotechnique</i> , 2018, 68, 729-741.	4.0	37
22	Effect of Underlying Sand Layer on Undrained Capacity of Spudcan Foundations in Soft Clay Under Combined Loading. , 2018, , .		0
23	The response of suction caissons to multidirectional lateral cyclic loading in sand over clay. <i>Ocean Engineering</i> , 2018, 170, 43-54.	4.3	19
24	Modelling of Spudcan Foundation Penetrations Using an Improved Hypoplastic Model for Soft Clays. , 2018, , 749-756.		1
25	Numerical modelling of the effects of consolidation on the undrained spudcan capacity under combined loading in silty clay. <i>Computers and Geotechnics</i> , 2017, 86, 33-51.	4.7	20
26	Combined loading capacity of a spudcan in clay after penetrating through a sand layer. <i>Geotechnique Letters</i> , 2017, 7, 97-103.	1.2	4
27	Uniaxial Capacities of Skirted Circular Foundations in Clay. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2017, 143, .	3.0	40
28	Advanced Approaches for Coupled Deformation-Seepage-Analyses of Suction Caisson Installation. , 2017, , .		0
29	Experimental Investigation of the Effect of Cyclic Loading on Spudcan Extraction. <i>Journal of Offshore Mechanics and Arctic Engineering</i> , 2016, 138, .	1.2	7
30	Numerical modelling of the effects of consolidation on jack-up spudcan penetration. <i>Computers and Geotechnics</i> , 2016, 78, 25-37.	4.7	31
31	A stable Maximum-Entropy Meshless method for analysis of porous media. <i>Computers and Geotechnics</i> , 2016, 80, 248-260.	4.7	6
32	Numerical investigation of penetration of a large-diameter footing into normally consolidated kaolin clay with a consolidation phase. <i>Geotechnique</i> , 2016, 66, 947-952.	4.0	34
33	Simulation of the Plug inside Open Steel Pipe Piles with Regards to Different Installation Methods. , 2016, , .		10
34	Large deformation finite element analyses in geotechnical engineering. <i>Computers and Geotechnics</i> , 2015, 65, 104-114.	4.7	197
35	The effect of water jetting on spudcan extraction from deep embedment in soft clay. <i>Ocean Engineering</i> , 2015, 97, 90-99.	4.3	18
36	Effects of preloading with consolidation on undrained bearing capacity of skirted circular footings. <i>Geotechnique</i> , 2015, 65, 231-246.	4.0	38

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37	Effects of Consolidation under a Penetrating Footing in Carbonate Silty Clay. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2015, 141, .	3.0	25
38	CPT correlation developed from numerical analysis to predict jack-up foundation penetration into sand overlying clay. Ocean Engineering, 2015, 108, 216-226.	4.3	21
39	Drift of Piles Subjected to Cyclic Lateral Loading From a Varying Direction: System vs. Soil Element Behavior. , 2014, , .		3
40	Observing the effects of sustained loading on spudcan footings in clay. Geotechnique, 2014, 64, 918-926.	4.0	23
41	Effect of variation of the loading direction on the displacement accumulation of large-diameter piles under cyclic lateral loading in sand. Canadian Geotechnical Journal, 2014, 51, 1196-1206.	2.8	49
42	Effect of Installation on the Bearing Capacity of a Spudcan under Combined Loading in Soft Clay. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2014, 140, .	3.0	38
43	A plasticity model for spudcan foundations in soft clay. Canadian Geotechnical Journal, 2014, 51, 629-646.	2.8	31
44	Undrained capacity of a hybrid subsea skirted mat with caissons under combined loading. Canadian Geotechnical Journal, 2014, 51, 934-949.	2.8	29
45	Spudcan extraction from deep embedment in soft clay. Applied Ocean Research, 2014, 48, 126-136.	4.1	18
46	Jack-up push-over analyses featuring a new force resultant model for spudcans in soft clay. Ocean Engineering, 2014, 81, 139-149.	4.3	13
47	Centrifuge study on the cyclic performance of caissons in sand. International Journal of Physical Modelling in Geotechnics, 2014, 14, 99-115.	0.6	49
48	Predicting the undrained capacity of skirted spudcans under combined loading. Ocean Engineering, 2013, 74, 178-188.	4.3	28
49	CPT based prediction of foundation penetration in siliceous sand. Applied Ocean Research, 2013, 41, 9-18.	4.1	42
50	Centrifuge Experiments to Study Extraction of a Deeply Embedded Spudcan Using Top Jetting. , 2013, , .		3
51	Set Up and Resulting Punch-Through Risk of Jack-Up Spudcans during Installation. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2013, 139, 2048-2059.	3.0	29
52	Centrifuge tests investigating the influence of pile cross-section on pile driving resistance of open-ended piles. International Journal of Physical Modelling in Geotechnics, 2013, 13, 50-62.	0.6	10
53	Development of a combined <i>VHM</i> loading apparatus for a geotechnical drum centrifuge. International Journal of Physical Modelling in Geotechnics, 2013, 13, 13-30.	0.6	27
54	Numerical Simulation of Spudcan Penetration Into Silica Sand and Prediction of Bearing Behaviour. , 2012, , .		1

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55	Cone Penetrometer-Based Spudcan Penetration Prediction in Uncemented Carbonate Sand. , 2012, , .		4
56	A Force-resultant Model for Spudcans in Soft Clay and Application to Jack-up Push-over Analysis. , 2012, , .		0
57	Undrained Bearing Capacity of Deeply Buried Flat Circular Footings under General Loading. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2012, 138, 385-397.	3.0	49
58	Response of Piles with Wings to Monotonic and Cyclic Lateral Loading in Sand. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2012, 138, 364-375.	3.0	83
59	Elastic stiffness coefficients for an embedded spudcan in clay. Computers and Geotechnics, 2012, 42, 89-97.	4.7	12
60	Numerical modelling of a hybrid skirted foundation under combined loading. Computers and Geotechnics, 2012, 45, 127-139.	4.7	75
61	Investigation of the potential of bottom water jetting to ease spudcan extraction in soft clay. Geotechnique, 2011, 61, 1043-1054.	4.0	31
62	The undrained bearing capacity of a spudcan foundation under combined loading in soft clay. Marine Structures, 2011, 24, 459-477.	3.8	119
63	Recent contributions of geotechnical centrifuge modelling to the understanding of jack-up spudcan behaviour. Ocean Engineering, 2011, 38, 900-914.	4.3	32
64	Push-Over Response of a Jack-Up on Sand of Different Relative Densities. , 2009, , .		0
65	Three-dimensional numerical analysis of centrifuge experiments on a model jack-up drilling rig on sand. Canadian Geotechnical Journal, 2009, 46, 208-224.	2.8	20
66	The influence of pull-out load on the efficiency of jetting during spudcan extraction. Applied Ocean Research, 2009, 31, 202-211.	4.1	28
67	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.	2.8	15
68	Discussion: Investigating six-degree-of-freedom loading of shallow foundations on sand. Geotechnique, 2007, 57, 483-484.	4.0	0
69	Investigating six-degree-of-freedom loading of shallow foundations on sand. Geotechnique, 2006, 56, 367-379.	4.0	87
70	Three-Dimensional Dynamic Analysis of Jack-up Structures. Advances in Structural Engineering, 2006, 9, 19-37.	2.4	9
71	Advances in the three-dimensional fluid-structure-soil interaction analysis of offshore jack-up structures. Marine Structures, 2006, 19, 110-140.	3.8	42
72	A macro-element model for predicting the combined load behaviour of spudcan foundations in clay overlying sand. Geotechnique, 0, , 1-46.	4.0	1