Dynamics of offshore wind turbines supported on two found

DOI: 10.1680/geng.11.00015
Proceedings of the Institution of Civil Engineers: Geotechnical Engineering, 2013, 166, 159-169.

#	Paper	IF	Citations
79	Observed dynamic soil□structure interaction in scale testing of offshore wind turbine foundations. *Soil Dynamics and Earthquake Engineering*, **2013**, 54, 47-60	3.5	114
78	Editorial. *Proceedings of the Institution of Civil Engineers: Geotechnical Engineering*, **2013**, 166, 96-98	0.9	
77	Seismic response of large-scale prestressed concrete bucket foundation for offshore wind turbines. *Journal of Renewable and Sustainable Energy*, **2014**, 6, 013127	2.5	34
76	Response of Monopiles in Sand Subjected to One-Way and Transient Cyclic Lateral Loading. **2014**,		4
75	Development of a rig to study model pile behaviour under repeating lateral loads. *International Journal of Physical Modelling in Geotechnics*, **2014**, 14, 54-66	1	13
74	Centrifuge study on the cyclic performance of caissons in sand. *International Journal of Physical Modelling in Geotechnics*, **2014**, 14, 99-115	1	38
73	Model Tests on the Long-Term Dynamic Performance of Offshore Wind Turbines Founded on Monopiles in Sand. *Journal of Offshore Mechanics and Arctic Engineering*, **2015**, 137,	1.5	25
72	Modelling the drained response of bucket foundations for offshore wind turbines under general monotonic and cyclic loading. *Applied Ocean Research*, **2015**, 52, 80-91	3.4	34
71	An analytical model to predict the natural frequency of offshore wind turbines on three-spring flexible foundations using two different beam models. *Soil Dynamics and Earthquake Engineering*, **2015**, 74, 40-45	3.5	52
70	Coupled hydrodynamic and geotechnical analysis of jacket offshore wind turbine. *Soil Dynamics and Earthquake Engineering*, **2015**, 73, 66-79	3.5	30
69	Design of monopile supported offshore wind turbine in clay considering dynamic soil□structure-interaction. *Soil Dynamics and Earthquake Engineering*, **2015**, 73, 103-117	3.5	40
68	Simplified critical mudline bending moment spectra of offshore wind turbine support structures. *Wind Energy*, **2015**, 18, 2171-2197	3.4	57
67	Offshore wind turbine foundations □analysis and design. **2016**, 589-610		12
66	Dynamic stiffness of monopiles supporting offshore wind turbine generators. *Soil Dynamics and Earthquake Engineering*, **2016**, 88, 15-32	3.5	46
65	Soil□monopile interactions for offshore wind turbines. *Proceedings of the Institution of Civil Engineers: Engineering and Computational Mechanics*, **2016**, 169, 171-182	0.3	13
64	Piled-cruciform attachment to monopile head reduces deflection. *Proceedings of the Institution of Civil Engineers: Geotechnical Engineering*, **2016**, 169, 321-335	0.9	5
63	Closed form solution of Eigen frequency of monopile supported offshore wind turbines in deeper waters incorporating stiffness of substructure and SSI. *Soil Dynamics and Earthquake Engineering*, **2016**, 83, 18-32	3.5	103

62	An innovative cyclic loading device to study long term performance of offshore wind turbines. *Soil Dynamics and Earthquake Engineering*, **2016**, 82, 154-160	3.5	29
61	Use of offshore wind farms to increase seismic resilience of Nuclear Power Plants. *Soil Dynamics and Earthquake Engineering*, **2016**, 80, 65-68	3.5	20
60	Analysis and Design of Monopile Foundations for Offshore Wind-Turbine Structures. *Marine Georesources and Geotechnology*, **2016**, 34, 503-525	2.2	29
59	Foundation structural health monitoring of an offshore wind turbine□ full-scale case study. *Structural Health Monitoring*, **2016**, 15, 389-402	4.4	32
58	Biaxial Loading of Offshore Monopiles: Numerical Modeling. *International Journal of Geomechanics*, **2017**, 17, 04016050	3.1	10
57	Dynamic analysis of monopile supported offshore wind turbines. *Proceedings of the Institution of Civil Engineers: Geotechnical Engineering*, **2017**, 170, 428-444	0.9	6
56	Transient response of offshore wind turbines on monopiles in sand: role of cyclic hydro□echanical soil behaviour. *Computers and Geotechnics*, **2017**, 83, 221-238	4.4	38
55	Influence of pore water in the seabed on dynamic response of offshore wind turbines on monopiles. *Soil Dynamics and Earthquake Engineering*, **2017**, 100, 233-248	3.5	10
54	Deformation mechanisms for offshore monopile foundations accounting for cyclic mobility effects. *Soil Dynamics and Earthquake Engineering*, **2017**, 97, 439-453	3.5	26
53	Insight into the lateral response of offshore shallow foundations. *Ocean Engineering*, **2017**, 144, 203-210	3.9	5
52	Natural frequency of offshore wind turbines on rigid and flexible monopiles in cohesionless soils with linear stiffness distribution. *Applied Ocean Research*, **2017**, 68, 91-102	3.4	23
51	Investigation of the load-bearing capacity of suction caissons used for offshore wind turbines. *Applied Ocean Research*, **2017**, 67, 148-161	3.4	14
50	Evaluation of dynamic response for monopole and hybrid wind mill tower. **2017**,		
49	Serviceability of suction caisson founded offshore structures. *Proceedings of the Institution of Civil Engineers: Geotechnical Engineering*, **2017**, 170, 273-284	0.9	6
48	Micromechanics of soil responses in cyclic simple shear tests. *EPJ Web of Conferences*, **2017**, 140, 02008	0.3	2
47	Stochastic response of jacket supported offshore wind turbines for varying soil parameters. *Renewable Energy*, **2017**, 101, 550-564	8.1	17
46	Design of monopiles for offshore wind turbines in 10 steps. *Soil Dynamics and Earthquake Engineering*, **2017**, 92, 126-152	3.5	152
45	Embedment Effects on Vertical Bearing Capacity of Offshore Bucket Foundations on Cohesionless Soil. *International Journal of Geomechanics*, **2017**, 17, 04016110	3.1	24

44	Predicting long term performance of offshore wind turbines using cyclic simple shear apparatus. *Soil Dynamics and Earthquake Engineering*, **2017**, 92, 678-683	3.5	23
43	Civil Engineering Aspects of a Wind Farm and Wind Turbine Structures. **2017**, 221-242		6
42	Civil Engineering Challenges Associated With Design of Offshore Wind Turbines With Special Reference to China. **2017**, 243-273		6
41	Practical Method to Estimate Foundation Stiffness for Design of Offshore Wind Turbines. **2017**, 329-352		6
40	Physical Modeling of Offshore Wind Turbine Model for Prediction of Prototype Response. **2017**, 353-374		2
39	A review of foundations of offshore wind energy convertors: Current status and future perspectives. *Renewable and Sustainable Energy Reviews*, **2018**, 88, 16-36	16.2	102
38	Response of flexible monopile in marine clay under cyclic lateral load. *Ocean Engineering*, **2018**, 147, 89-106	3.9	21
37	Materials selection for XL wind turbine support structures: A corrosion-fatigue perspective. *Marine Structures*, **2018**, 61, 381-397	3.8	37
36	Stochastic response reduction on offshore wind turbines due to flaps including soil effects. *Soil Dynamics and Earthquake Engineering*, **2018**, 114, 174-185	3.5	4
35	Macro- and micro-mechanics of granular soil in asymmetric cyclic loadings encountered by offshore wind turbine foundations. *Granular Matter*, **2019**, 21, 1	2.6	5
34	Evaluation of cyclic and monotonic loading behavior of bucket foundations used for offshore wind turbines. *Applied Ocean Research*, **2019**, 91, 101865	3.4	4
33	Cryptotanshinone inhibits lung cancer invasion via microRNA-133a/matrix metalloproteinase 14 regulation. *Oncology Letters*, **2019**, 18, 2554-2559	2.6	13
32	Dynamic Behavior of Variable Cross-Section Offshore Wind Turbine with Flexible Foundation Using Finite Element Method. *Journal of Physics: Conference Series*, **2019**, 1264, 012048	0.3	
31	Semi Analytical Model for the Dynamic Behavior of Offshore Wind Turbine with Flexible Foundation. *Journal of Physics: Conference Series*, **2019**, 1264, 012049	0.3	
30	Permanent accumulated rotation of an offshore monopile wind turbine in sand during a storm. *Ocean Engineering*, **2019**, 188, 106340	3.9	5
29	Foundations of offshore wind turbines: A review. *Renewable and Sustainable Energy Reviews*, **2019**, 104, 379-393	16.2	119
28	Bibliography. **2019**, 351-368		
27	Geotechnical aspects of offshore wind turbine dynamics from 3D non-linear soil-structure simulations. *Soil Dynamics and Earthquake Engineering*, **2019**, 120, 181-199	3.5	41

26	Wind power: A sustainable way to limit climate change. **2019**, 333-364		7
25	Numerical investigation on evolving failure of caisson foundation in sand using the combined Lagrangian-SPH method. *Marine Georesources and Geotechnology*, **2019**, 37, 23-35	2.2	14
24	Support condition monitoring of offshore wind turbines using model updating techniques. *Structural Health Monitoring*, **2020**, 19, 1017-1031	4.4	10
23	Dynamic analysis of a monopile supported wind turbine considering experimental p curves. *Ships and Offshore Structures*, **2020**, 15, 670-682	1.4	5
22	Seismic Vulnerability of Cabinet Facility with Tuned Mass Dampers Subjected to High- and Low-Frequency Earthquakes. *Applied Sciences (Switzerland)*, **2020**, 10, 4850	2.6	7
21	Earthquake response of monopiles and caissons for Offshore Wind Turbines founded in liquefiable soil. *Soil Dynamics and Earthquake Engineering*, **2020**, 136, 106213	3.5	26
20	Waveform and frequency effects on corrosion-fatigue crack growth behaviour in modern marine steels. *International Journal of Fatigue*, **2020**, 134, 105484	5	21
19	Analysis of tripod supported offshore wind turbines under conditions of marine growth. *Ocean Engineering*, **2021**, 220, 108441	3.9	3
18	Cyclic lateral response of OWT bucket foundations in sand: 3D coupled effective stress analysis with Ta-Ger model. *Soils and Foundations*, **2021**, 61, 371-385	2.9	6
17	Physical Modelling of Offshore Wind Turbine Foundations for TRL (Technology Readiness Level) Studies. *Journal of Marine Science and Engineering*, **2021**, 9, 589	2.4	10
16	Vertical Stiffness Functions of Rigid Skirted Caissons Supporting Offshore Wind Turbines. *Journal of Marine Science and Engineering*, **2021**, 9, 573	2.4	
15	On the seismic analysis and design of offshore wind turbines. *Soil Dynamics and Earthquake Engineering*, **2021**, 145, 106692	3.5	4
14	Seismic Design of Offshore Wind Turbines: Good, Bad and Unknowns. *Energies*, **2021**, 14, 3496	3.1	10
13	Soil Structure Interactions for Offshore Wind Turbines. *Engineering & Technology Reference*, **2012**, 1,		2
12	Experimental and Numerical Studies on the Dynamic and Long-Term Behavior of Offshore Wind Turbines in Clay. *Geotechnical Testing Journal*, **2018**, 41, 20170043	1.3	3
11	Experimental investigation of monopile in overconsolidated marine clay subjected to multiple cyclic lateral loading events. *Marine Georesources and Geotechnology*, 1-14	2.2	1
10	Centrifuge shaking table tests on offshore wind turbine bucket foundation in mildly inclined liquefiable seabed. *Soil Dynamics and Earthquake Engineering*, **2021**, 151, 107012	3.5	5
9	Dynamic Analysis of Innovative Hybrid Wind Mill Tower Considering Soil Structure Interaction. **2017**,		

8	Review of Numerical Models for Studying the Dynamic Response of Deep Foundations for the Design and Project of Wind Turbines. *Lecture Notes in Management and Industrial Engineering*, **2019**, 173-187	0.3	
7	Challenges in the Design and Construction of Offshore Wind Turbine Foundations Including Sites in Seismic Areas. *Lecture Notes in Civil Engineering*, **2020**, 121-160	3.9	20
6	Long term effect of operating loads on large monopile-supported offshore wind turbines in sand. *Ocean Engineering*, **2022**, 245, 110404	4.5	0
5	Wind- and sea wave-induced response mitigations of offshore wind turbines using track nonlinear energy sinks. *Structural Control and Health Monitoring*,		0
4	Analytical solution for lateral vibration of offshore pipe piles considering hydrodynamic pressure. **2022**, 151, 104962		0
3	Coupled effects of long-term cyclic loading and scour on the mechanical responses of monopile-supported offshore wind turbines. **2022**, 265, 112556		0
2	A novel reduced column section approach for the seismic protection of wind turbines. **2023**, 282, 115807		0
1	Natural Frequency Analysis of Monopile Supported Offshore Wind Turbines Using Unified Beam-Column Element Model. **2023**, 11, 628		0