Benjamin Cerfontaine

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/4709876/publications.pdf

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24	571	840585 11	752573 20
papers	citations	h-index	g-index

28	28	28	504
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Cyclic and Fatigue Behaviour of Rock Materials: Review, Interpretation and Research Perspectives. Rock Mechanics and Rock Engineering, 2018, 51, 391-414.	2.6	231
2	3D zero-thickness coupled interface finite element: Formulation and application. Computers and Geotechnics, 2015, 69, 124-140.	2.3	49
3	A fully coupled hydro-mechanical model for the modeling of coalbed methane recovery. Journal of Natural Gas Science and Engineering, 2017, 46, 307-325.	2.1	47
4	Validation of a New Elastoplastic Constitutive Model Dedicated to the Cyclic Behaviour of Brittle Rock Materials. Rock Mechanics and Rock Engineering, 2017, 50, 2677-2694.	2.6	38
5	Effect of soil deformability on the failure mechanism of shallow plate or screw anchors in sand. Computers and Geotechnics, 2019, 109, 34-45.	2.3	25
6	Physical modelling to demonstrate the feasibility of screw piles for offshore jacket-supported wind energy structures. Geotechnique, 2022, 72, 108-126.	2.2	23
7	A finite element approach for determining the full loadâ€“displacement relationship of axially loaded shallow screw anchors, incorporating installation effects. Canadian Geotechnical Journal, 2021, 58, 565-582.	1.4	23
8	Numerical modelling of transient cyclic vertical loading of suction caissons in sand. Geotechnique, 2016, 66, 121-136.	2.2	21
9	Effects of screw pile installation on installation requirements and in-service performance using the discrete element method. Canadian Geotechnical Journal, 2021, 58, 1334-1350.	1.4	15
10	Using discrete element method (DEM) to create a cone penetration test (CPT)-based method to estimate the installation requirements of rotary-installed piles in sand. Canadian Geotechnical Journal, 0, , 1-17.	1.4	12
11	Hydromechanical modelling of shaft sealing for CO2 storage. Engineering Geology, 2015, 193, 97-105.	2.9	11
12	Experimental and numerical investigation of a long-duration Thermal Response Test: Borehole Heat Exchanger behaviour and thermal plume in the heterogeneous rock mass. Geothermics, 2018, 71, 245-258.	1.5	11
13	Optimised design of screw anchors in tension in sand for renewable energy applications. Ocean Engineering, 2020, 217, 108010.	1.9	11
14	Control of screw pile installation to optimise performance for offshore energy applications. Geotechnique, 2023, 73, 234-249.	2.2	10
15	DEM study of particle scale and penetration rate on the installation mechanisms of screw piles in sand. Computers and Geotechnics, 2021, 139, 104380.	2.3	10
16	Modelling of Short-Term Interactions Between Concrete Support and the Excavated Damage Zone Around Galleries Drilled in Callovoâ€“Oxfordian Claystone. International Journal of Civil Engineering, 2019, 17, 1-18.	0.9	9
17	Assessing single-helix screw pile geometry on offshore installation and axial capacity. Proceedings of the Institution of Civil Engineers: Geotechnical Engineering, 2021, 174, 512-529.	0.9	9
18	Formulation of a 1D finite element of heat exchanger for accurate modelling of the grouting behaviour: Application to cyclic thermal loading. Renewable Energy, 2016, 96, 65-79.	4.3	6

#	Article	IF	Citations
19	Optimised screw pile design for offshore jacket foundations in mediumâ€“dense sand. Geotechnique Letters, 2022, 12, 114-119.	0.6	3
20	Vertical transient loading of a suction caisson in dense sand. , 2014, , 929-934.		2
21	A consistent calibration process for the Matsuokaâ€“Nakai friction angle under direct simple shear conditions for clay hypoplasticity. Computers and Geotechnics, 2022, 150, 104888.	2.3	2
22	Design of plate and screw anchors in dense sand: failure mechanism, capacity and deformation. E3S Web of Conferences, 2019, 92, 16010.	0.2	1
23	Numerical modelling of the cyclic behaviour of rock material in the context of underground pumped storage hydroelectricity. , 2016, , 629-636.		0
24	Design Optimisation of Deep Pile Foundations Installed by Static Forces. , 2022, , .		0