

Fabrice Emeriault

List of Publications by Year in descending order

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Version: 2024-02-01

32
papers

447
citations

687335

13
h-index

713444

21
g-index

32
all docs

32
docs citations

32
times ranked

398
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanical and Microstructural Changes of Biocemented Sand Subjected to an Acid Solution. International Journal of Geomechanics, 2022, 22, .	2.7	2
2	D.E.M. modeling of biocemented sand: Influence of the cohesive contact surface area distribution and the percentage of cohesive contacts. Computers and Geotechnics, 2022, 149, 104860.	4.7	4
3	Soft soil improvement by rigid inclusions under vertical cyclic loading: numerical back analysis. European Journal of Environmental and Civil Engineering, 2021, 25, 409-428.	2.1	6
4	Predicting subsidence of cohesive and granular soil layers reinforced by geosynthetic. Environmental Earth Sciences, 2021, 80, 1.	2.7	1
5	Discrete Numerical Modelling of a Cohesive Soil Layer Reinforced by Geosynthetic Sheet Using an Advanced Constitutive Law. Lecture Notes in Civil Engineering, 2021, , 699-706.	0.4	0
6	Effect of Horizontal Multidirectional Cyclic Loading on Piles in Sand: A Numerical Analysis. Journal of Marine Science and Engineering, 2021, 9, 235.	2.6	4
7	Modélisation physique à l'échelle pour l'étude des conséquences de mouvements de terrain et des moyens de mitigation. Revue Française De Géotechnique, 2021, , 2.	0.1	2
8	New approach to describe hydro-mechanical phenomenon of suffusion: erosion, transport and deposition. European Journal of Environmental and Civil Engineering, 2020, 24, 2342-2360.	2.1	2
9	On the use of 1g physical models for ground movements and soil-structure interaction problems. Journal of Rock Mechanics and Geotechnical Engineering, 2020, 12, 197-211.	8.1	30
10	BOREAL, Bio-reinforcement of embankments by biocalcification. E3S Web of Conferences, 2020, 195, 05001.	0.5	4
11	Discrete Element Modelling for biocemented sand: effect of calcite distribution at the microscopic scale. E3S Web of Conferences, 2020, 195, 05005.	0.5	2
12	X-ray CT analysis of the evolution of ballast grain morphology along a Micro-Deval test: key role of the asperity scale. Granular Matter, 2019, 21, 1.	2.2	21
13	Influence of the microstructural properties of biocemented sand on its mechanical behavior. International Journal for Numerical and Analytical Methods in Geomechanics, 2019, 43, 568-577.	3.3	13
14	Characterization of contact properties in biocemented sand using 3D X-ray micro-tomography. Acta Geotechnica, 2019, 14, 597-613.	5.7	40
15	Three-dimensional numerical back-analysis of a monitored deep excavation retained by strutted diaphragm walls. Tunnelling and Underground Space Technology, 2019, 83, 153-164.	6.2	57
16	Rigid pile improvement under vertical cyclic loading: 1glaboratory small-scale modelling. International Journal of Physical Modelling in Geotechnics, 2019, 19, 89-103.	0.6	4
17	Amélioration des propriétés mécaniques des sols par biocimentation: l'étude mécanique et microstructurale. Revue Française De Géotechnique, 2019, , 4.	0.1	4
18	Soil Reinforcement with Geosynthetic for Localized Subsidence Problems: Experimental and Analytical Analysis. International Journal of Geomechanics, 2018, 18, .	2.7	18

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19	Characterization of microstructural and physical properties changes in biocemented sand using 3D X-ray microtomography. <i>Acta Geotechnica</i> , 2017, 12, 955-970.	5.7	57
20	Wear of sharp aggregates in a rotating drum. <i>EPJ Web of Conferences</i> , 2017, 140, 07009.	0.3	6
21	Three-Dimensional Back-Analysis of an Instrumented Shallow Tunnel Excavated by a Conventional Method. <i>Geotechnical and Geological Engineering</i> , 2016, 34, 1101-1117.	1.7	9
22	Quantifying Degradation of Railway Ballast Using Numerical Simulations of Micro-deval Test and In-situ Conditions. <i>Procedia Engineering</i> , 2016, 143, 1016-1023.	1.2	15
23	Physical evidence of the effect of vertical cyclic loading on soil improvement by rigid piles: a small-scale laboratory experiment using Digital Image Correlation. <i>Acta Geotechnica</i> , 2016, 11, 325-346.	5.7	17
24	Massifs de sol renforcés par inclusions rigides: analyse de l'effet d'un chargement cyclique vertical quasi statique par expérimentation sur modèle réduit et validation numérique. <i>Revue Française De Géotechnique</i> , 2016, , 2.	0.1	1
25	Method based on digital image correlation for damage assessment in masonry structures. <i>Engineering Structures</i> , 2015, 86, 1-15.	5.3	19
26	Assessment of ground surface displacements induced by an earth pressure balance shield tunneling using partial least squares regression. <i>Environmental Earth Sciences</i> , 2015, 73, 7603-7616.	2.7	18
27	3D numerical modelling of the impact of tunnelling in soft soil on buried pipelines. , 2014, , 179-183.		0
28	Large-scale soil-structure physical model (1g) assessment of structure damages. <i>International Journal of Physical Modelling in Geotechnics</i> , 2013, 13, 138-152.	0.6	19
29	Effectiveness of a mitigation technique for buildings subjected to ground subsidence. <i>International Journal of Geotechnical Engineering</i> , 2012, 6, 179-184.	2.0	2
30	Retro-analyse tridimensionnelle d'une excavation profonde multisupportée instrumentée. <i>European Journal of Environmental and Civil Engineering</i> , 2010, 14, 55-86.	2.1	6
31	Artificial neural network application for the prediction of ground surface movements induced by shield tunnelling. <i>Canadian Geotechnical Journal</i> , 2010, 47, 1214-1233.	2.8	63
32	Subsidence prediction of reinforced soil layer by geosynthetic using large-scale 1g physical model. <i>Proceedings of the International Association of Hydrological Sciences</i> , 0, 382, 721-726.	1.0	1