Michael G Gomez

List of Publications by Year
in descending order

26 papers	1,012 citations	687363 13 h-index	1058476 14 g-index
26 all docs	26 docs citations	26 times ranked	447 citing authors

#	Article	IF	Citations
1	Effect of Light Biocementation on the Liquefaction Triggering and Post-Triggering Behavior of Loose Sands. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2022, 148, .	3.0	26
2	Development and Evaluation of Preconditioning Protocols for Sand Specimens in Constant-Volume Cyclic Direct Simple Shear Tests. Geotechnical Testing Journal, 2022, 45, 20210028.	1.0	3
3	Investigating the Dissolution Behavior of Calcium Carbonate Bio-Cemented Sands. , 2022, , .		2
4	Native Bacterial Community Convergence in Augmented and Stimulated Ureolytic MICP Biocementation. Environmental Science & Technology, 2021, 55, 10784-10793.	10.0	32
5	Meter-Scale Biocementation Experiments to Advance Process Control and Reduce Impacts: Examining Spatial Control, Ammonium By-Product Removal, and Chemical Reductions. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2020, 146, .	3.0	37
6	Examining the Liquefaction Resistance of Lightly Cemented Sands Using Microbially Induced Calcite Precipitation (MICP). , 2020, , .		8
7	Investigating the Effect of Microbial Activity and Chemical Concentrations on the Mineralogy and Morphology of Ureolytic Bio-Cementation. , 2020, , .		9
8	Examining Spatial Control, Ammonium By-Product Removal, and Chemical Reductions for Bio-Cementation Soil Improvement Using Meter-Scale Experiments. , 2020, , .		3
9	Biogeochemical Changes During Bio-cementation Mediated by Stimulated and Augmented Ureolytic Microorganisms. Scientific Reports, 2019, 9, 11517.	3.3	50
10	Centrifuge Model Testing of Liquefaction Mitigation via Microbially Induced Calcite Precipitation. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2019, 145, .	3.0	56
11	Investigating Ammonium By-Product Removal following Stimulated Ureolytic Microbially-Induced Calcite Precipitation. , 2019, , .		12
12	Thermal conductivity of MICP-treated sands at varying degrees of saturation. Geotechnique Letters, 2019, 9, 15-21.	1.2	33
13	Validation of a Bounding Surface Plasticity Model against the Experimental Response of (Bio-) Cemented Sands. , 2019, , .		3
14	Investigating Ammonium By-product Removal for Ureolytic Bio-cementation Using Meter-scale Experiments. Scientific Reports, 2019, 9, 18313.	3.3	31
15	Diversity of Sporosarcina-like Bacterial Strains Obtained from Meter-Scale Augmented and Stimulated Biocementation Experiments. Environmental Science & Technology, 2018, 52, 3997-4005.	10.0	52
16	Effect of bio-cementation on geophysical and cone penetration measurements in sands. Canadian Geotechnical Journal, 2018, 55, 1632-1646.	2.8	45
17	Largeâ€Scale Experiments in Microbially Induced Calcite Precipitation (MICP): Reactive Transport Model Development and Prediction. Water Resources Research, 2018, 54, 480-500.	4.2	65
18	Stimulation of Native Microorganisms for Biocementation in Samples Recovered from Field-Scale Treatment Depths. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2018, 144, .	3.0	105

#	Article	IF	Citations
19	Centrifuge Model Testing of Liquefaction Mitigation via Microbially Induced Calcite Precipitation. , 2018, , .		5
20	Influence of Bio-Cementation on the Shearing Behavior of Sand Using X-Ray Computed Tomography. , 2017, , .		9
21	Large-Scale Comparison of Bioaugmentation and Biostimulation Approaches for Biocementation of Sands. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2017, 143, .	3.0	171
22	Engineering Properties of Bio-Cementation Improved Sandy Soils. , 2017, , .		21
23	Large-Scale Bio-Cementation Improvement of Sands. , 2016, , .		6
24	Field-scale bio-cementation tests to improve sands. Proceedings of the Institution of Civil Engineers: Ground Improvement, 2015, 168, 206-216.	1.0	167
25	Stimulating In Situ Soil Bacteria for Bio-Cementation of Sands. , 2014, , .		51
26	Bacteria, Biofilms, and Invertebrates: The Next Generation of Geotechnical Engineers?. , 2014, , .		10