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	Large-Scale Comparison of Bioaugmentation and Biostimulation Approaches for Biocementation of Sands. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2017, 143, .	3.0	171
2	Field-scale bio-cementation tests to improve sands. Proceedings of the Institution of Civil Engineers: Ground Improvement, 2015, 168, 206-216.	1.0	167
3	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
4	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
5	Centrifuge Model Testing of Liquefaction Mitigation via Microbially Induced Calcite Precipitation. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2019, 145, .	3.0	56
6	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
7	Stimulating In Situ Soil Bacteria for Bio-Cementation of Sands. , 2014, , .		51
8	Biogeochemical Changes During Bio-cementation Mediated by Stimulated and Augmented Ureolytic Microorganisms. Scientific Reports, 2019, 9, 11517.	3.3	50
9	Effect of bio-cementation on geophysical and cone penetration measurements in sands. Canadian Geotechnical Journal, 2018, 55, 1632-1646.	2.8	45
10	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
11	Thermal conductivity of MICP-treated sands at varying degrees of saturation. Geotechnique Letters, 2019, 9, 15-21.	1.2	33
12	Native Bacterial Community Convergence in Augmented and Stimulated Ureolytic MICP Biocementation. Environmental Science & Technology, 2021, 55, 10784-10793.	10.0	32
13	Investigating Ammonium By-product Removal for Ureolytic Bio-cementation Using Meter-scale Experiments. Scientific Reports, 2019, 9, 18313.	3.3	31
14	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
15	Engineering Properties of Bio-Cementation Improved Sandy Soils. , 2017, , .		21
16	Investigating Ammonium By-Product Removal following Stimulated Ureolytic Microbially-Induced Calcite Precipitation. , 2019, , .		12
17	Bacteria, Biofilms, and Invertebrates: The Next Generation of Geotechnical Engineers?. , 2014, , .		10
18	Influence of Bio-Cementation on the Shearing Behavior of Sand Using X-Ray Computed Tomography. , 2017, , .		9

#	Article	IF	Citations
19	Investigating the Effect of Microbial Activity and Chemical Concentrations on the Mineralogy and Morphology of Ureolytic Bio-Cementation. , 2020, , .		9
20	Examining the Liquefaction Resistance of Lightly Cemented Sands Using Microbially Induced Calcite Precipitation (MICP). , 2020, , .		8
21	Large-Scale Bio-Cementation Improvement of Sands. , 2016, , .		6
22	Centrifuge Model Testing of Liquefaction Mitigation via Microbially Induced Calcite Precipitation. , 2018, , .		5
23	Validation of a Bounding Surface Plasticity Model against the Experimental Response of (Bio-) Cemented Sands. , 2019, , .		3
24	Examining Spatial Control, Ammonium By-Product Removal, and Chemical Reductions for Bio-Cementation Soil Improvement Using Meter-Scale Experiments. , 2020, , .		3
25	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
26	Investigating the Dissolution Behavior of Calcium Carbonate Bio-Cemented Sands. , 2022, , .		2