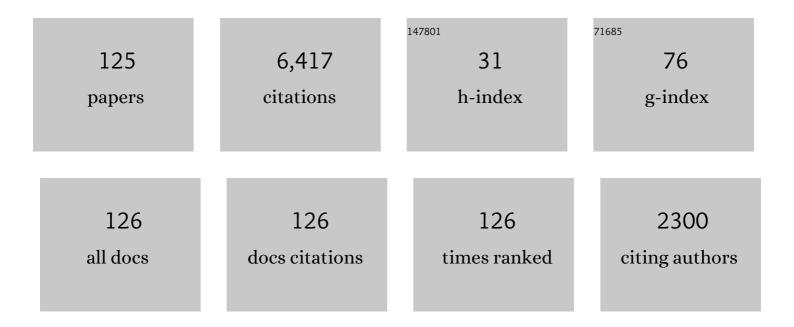
List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Bio-inspired geotechnical engineering: principles, current work, opportunities and challenges. Geotechnique, 2022, 72, 687-705.	4.0	74
2	Life-cycle sustainability assessment of geotechnical site investigation. Canadian Geotechnical Journal, 2022, 59, 863-877.	2.8	5
3	Nonlinear Dynamic Analyses of Perris Dam Using Transition Probability to Model Interbedded Alluvial Strata. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2022, 148, .	3.0	2
4	Centrifuge Tests of Cone-Penetration Test of Layered Soil. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2022, 148, .	3.0	6
5	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
6	Site-Specific CPT-Based Fines Content Correlations Using Percentile Matching. , 2022, , .		0
7	Effect of Gradation on the Strength and Stress-Dilatancy of Coarse-Grained Soils: A Comparison of Monotonic Direct Simple Shear and Triaxial Tests. , 2022, , .		3
8	Dynamic Behavior of Uniform Clean Sands: Evaluation of Predictive Capabilities in the Element- and the System-Level Scale. , 2022, , .		2
9	DEM study of the alteration of the stress state in granular media around a bio-inspired probe. Canadian Geotechnical Journal, 2022, 59, 1691-1711.	2.8	10
10	Effect of soil gradation on embankment response during liquefaction: A centrifuge testing program. Soil Dynamics and Earthquake Engineering, 2022, 157, 107221.	3.8	8
11	Influence of Particle Size and Gradation on Liquefaction Potential and Dynamic Response. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2022, 148, .	3.0	9
12	Life Cycle Sustainability Assessment of Fugitive Dust Control Methods. Journal of Construction Engineering and Management - ASCE, 2021, 147, .	3.8	12
13	MICP Treatment to Mitigate Soil Liquefaction-Induced Building Settlements. , 2021, , .		1
14	Effects of Bacterial Density on Growth Rate and Characteristics of Microbial-Induced CaCO3 Precipitates: Particle-Scale Experimental Study. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2021, 147, .	3.0	44
15	Modeling the self-penetration process of a bio-inspired probe in granular soils. Bioinspiration and Biomimetics, 2021, 16, 046012.	2.9	24
16	Native Bacterial Community Convergence in Augmented and Stimulated Ureolytic MICP Biocementation. Environmental Science & Technology, 2021, 55, 10784-10793.	10.0	32
17	Mitigation of Liquefaction Triggering and Foundation Settlement by MICP Treatment. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2021, 147, .	3.0	29
18	Using Conditional Random Fields for a Spatially Variable Liquefiable Foundation Layer in Nonlinear Dynamic Analyses of Embankments. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2021, 147, .	3.0	3

#	Article	IF	CITATIONS
19	Life Cycle Sustainability Assessment of Geotechnical Ground Improvement Methods. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2021, 147, .	3.0	13
20	Dynamic Analyses of Liquefaction and Lateral Spreading for an Interlayered Deposit in the Chi-Chi Earthquake. , 2021, , .		1
21	Review of impact categories and environmental indicators for life cycle assessment of geotechnical systems. Journal of Industrial Ecology, 2020, 24, 485-499.	5.5	14
22	NHERI Centrifuge Facility: Large-Scale Centrifuge Modeling in Geotechnical Research. Frontiers in Built Environment, 2020, 6, .	2.3	2
23	Developing Authentic Design Experiences Using Case Studies in a Senior Design Course. , 2020, , .		Ο
24	Accounting for Spatial Variability in Nonlinear Dynamic Analyses of Embankment Dams on Liquefiable Deposits. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2020, 146, .	3.0	7
25	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
26	The Effects of Soil Gradation on System Level Dynamic Response. , 2020, , .		0
27	Prediction, Performance, and Uncertainty in Dynamic Pile Load Testing as Informed by Direct Measurements from an Instrumented Becker Penetration Test. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2020, 146, .	3.0	1
28	Particle Size Effects on the Strength and Fabric of Granular Media. , 2020, , .		6
29	Bio-Inspiration through Tree Root Pullout Tests for Innovative Anchorage Design. , 2020, , .		4
30	Life Cycle Assessment of Site Characterization Methods. , 2020, , .		3
31	Life Cycle Sustainability Assessment (LCSA): A Research Evaluation Tool for Emerging Geotechnologies. , 2020, , .		2
32	Analysis of the Self-Penetration Process of a Bio-Inspired In Situ Testing Probe. , 2020, , .		6
33	Examining Spatial Control, Ammonium By-Product Removal, and Chemical Reductions for Bio-Cementation Soil Improvement Using Meter-Scale Experiments. , 2020, , .		3
34	Closure to "Axisymmetric Simulations of Cone Penetration in Saturated Clay―by Diane M. Moug, Ross W. Boulanger, Jason T. DeJong, and Robert A. Jaeger. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2020, 146, 07020005.	3.0	0
35	Vertical pullout tests of orchard trees for bio-inspired engineering of anchorage and foundation systems. Bioinspiration and Biomimetics, 2020, 16, 016009.	2.9	24
36	Slurry Deposition Method of Low-Plasticity Intermediate Soils for Laboratory Element Testing. Geotechnical Testing Journal, 2020, 43, 20180117.	1.0	14

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#	Article	IF	CITATIONS
37	Effect of Partial Drainage on Cyclic Strengths of Saturated Sands in Dynamic Centrifuge Tests. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2019, 145, .	3.0	5
38	Biogeochemical Changes During Bio-cementation Mediated by Stimulated and Augmented Ureolytic Microorganisms. Scientific Reports, 2019, 9, 11517.	3.3	50
39	Centrifuge Model Testing of Liquefaction Mitigation via Microbially Induced Calcite Precipitation. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2019, 145, .	3.0	56
40	Microscale Visualization of Microbial-Induced Calcium Carbonate Precipitation Processes. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2019, 145, .	3.0	85
41	Liquefaction Evaluation of Interbedded Soil Deposit: Çark Canal in 1999 M7.5 Kocaeli Earthquake. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2019, 145, .	3.0	15
42	Mechanistic Development of CPT-Based Cyclic Strength Correlations for Clean Sand. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2019, 145, .	3.0	6
43	Liquefaction Evaluation for an Interbedded Soil Deposit: St. Teresa's School, Christchurch, New Zealand. , 2019, , .		2
44	Axisymmetric Simulations of Cone Penetration in Saturated Clay. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2019, 145, .	3.0	12
45	Bio-mediated and Bio-inspired Geotechnics. Springer Series in Geomechanics and Geoengineering, 2019, , 193-207.	0.1	19
46	A Centrifuge Study on the Effects of Soil Gradation on CPT Tip Resistance. , 2019, , .		2
47	Investigating Ammonium By-product Removal for Ureolytic Bio-cementation Using Meter-scale Experiments. Scientific Reports, 2019, 9, 18313.	3.3	31
48	Progressive Changes in Liquefaction and Cone Penetration Resistance across Multiple Shaking Events in Centrifuge Tests. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2019, 145, .	3.0	32
49	A microfluidic chip and its use in characterising the particle-scale behaviour of microbial-induced calcium carbonate precipitation (MICP). Geotechnique, 2019, 69, 1086-1094.	4.0	90
50	Undrained Shear Behavior of Low-Plasticity Intermediate Soils Subjected to Simulated Tube-Sampling Disturbance. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2019, 145, .	3.0	9
51	Diversity of <i>Sporosarcina</i> -like Bacterial Strains Obtained from Meter-Scale Augmented and Stimulated Biocementation Experiments. Environmental Science & Technology, 2018, 52, 3997-4005.	10.0	52
52	Effect of bio-cementation on geophysical and cone penetration measurements in sands. Canadian Geotechnical Journal, 2018, 55, 1632-1646.	2.8	45
53	Piezocone Penetration Rate Effects in Transient Gold Tailings. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2018, 144, .	3.0	16
54	Largeâ€6cale Experiments in Microbially Induced Calcite Precipitation (MICP): Reactive Transport Model Development and Prediction. Water Resources Research, 2018, 54, 480-500.	4.2	65

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#	Article	IF	CITATIONS
55	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
56	Volumetric Strains from Inverse Analysis of Pore Pressure Transducer Arrays in Centrifuge Models. , 2018, , .		3
57	Centrifuge Model Testing of Liquefaction Mitigation via Denitrification-Induced Desaturation. , 2018, ,		5
58	Work-Based Framework for Sample Quality Evaluation of Low Plasticity Soils. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2018, 144, .	3.0	22
59	Centrifuge Modeling of Cone Penetration Testing in Layered Soil. , 2018, , .		1
60	A Multistage Signal Matching Approach for Pile Capacity Estimation Using the Instrumented Becker Penetration Test. , 2018, , .		0
61	Centrifuge Model Testing of Liquefaction Mitigation via Microbially Induced Calcite Precipitation. , 2018, , .		5
62	Review of life-cycle-based environmental assessments of geotechnical systems. Proceedings of the Institution of Civil Engineers: Engineering Sustainability, 2018, 171, 57-67.	0.7	14
63	Influence of Bio-Cementation on the Shearing Behavior of Sand Using X-Ray Computed Tomography. , 2017, , .		9
64	Evaluation of Liquefaction-Induced Lateral Spreading Procedures for Interbedded Deposits: Çark Canal in the 1999 M7.5 Kocaeli Earthquake. , 2017, , .		5
65	Evaluation of Becker penetration test interpretation methods for liquefaction assessment in gravelly soils. Canadian Geotechnical Journal, 2017, 54, 1272-1283.	2.8	13
66	Life-Cycle Assessment of Ground Improvement Alternatives for the Treasure Island, California, Redevelopment. , 2017, , .		14
67	A Bio-Inspired Perspective for Geotechnical Engineering Innovation. , 2017, , .		16
68	Analysis of Liquefaction at a Bridge Site in the 2014 Napa Earthquake. , 2017, , .		1
69	Large-Scale Comparison of Bioaugmentation and Biostimulation Approaches for Biocementation of Sands. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2017, 143, .	3.0	171
70	Instrumented Becker Penetration Test. I: Equipment, Operation, and Performance. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2017, 143, .	3.0	19
71	Instrumented Becker Penetration Test. II: iBPT-SPT Correlation for Characterization and Liquefaction Assessment of Gravelly Soils. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2017, 143, .	3.0	15
72	Pile-Driving Mechanics at the Base as Informed by Direct Measurements. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2017, 143, 04017064.	3.0	1

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73	Intersection of Modern Soil Mechanics with Ants and Roots. , 2017, , .		13
74	Engineering Properties of Bio-Cementation Improved Sandy Soils. , 2017, , .		21
75	Bio-Grout Materials: A Review. , 2017, , .		27
76	An Instrumented Becker Penetration Test for the Estimation of Soil Penetration Resistance and Pile Capacity in Gravelly Soils. , 2017, , .		2
77	Claims against Geotechnical Engineers: Getting it Right in the Midst of Uncertainty. Geo-strata, 2017, 21, 54-59.	0.1	Ο
78	Large-Scale Bio-Cementation Improvement of Sands. , 2016, , .		6
79	Biogeotechnical Mitigation of Earthquake-Induced Soil Liquefaction. Geo-strata, 2016, 20, 62-67.	0.1	0
80	Field-scale bio-cementation tests to improve sands. Proceedings of the Institution of Civil Engineers: Ground Improvement, 2015, 168, 206-216.	1.0	167
81	"Particle breakage and the critical state of sand―by Ghafghazi, M., Shuttle, D.A., and DeJong, J.T. [Soils and Foundations 54 (3) (2014) 451–461]. Soils and Foundations, 2015, 55, 223-225.	3.1	0
82	The role of root development of <i>Avena fatua</i> in conferring soil strength. American Journal of Botany, 2015, 102, 1050-1060.	1.7	27
83	Environmental geotechnics in the US region: a brief overview. Environmental Geotechnics, 2015, 2, 319-325.	2.3	9
84	Effects of Thixotropy and Cement Content on the Sensitivity of Soft Remolded Clay. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2015, 141, .	3.0	7
85	Geotechnical systems that evolve with ecological processes. Environmental Earth Sciences, 2015, 73, 1067-1082.	2.7	20
86	Characterization of an alluvial silt and clay deposit for monotonic, cyclic, and post-cyclic behavior. Canadian Geotechnical Journal, 2014, 51, 432-440.	2.8	27
87	Instrumented Becker Penetration Test for Improved Characterization of Gravelly Deposits. , 2014, , .		2
88	State-Based Overburden Normalization of Cone Penetration Resistance in Clean Sand. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2014, 140, 04013006.	3.0	9
89	Bio-bricks: Biologically cemented sandstone bricks. Construction and Building Materials, 2014, 55, 462-469.	7.2	112
90	Stimulating In Situ Soil Bacteria for Bio-Cementation of Sands. , 2014, , .		51

Stimulating In Situ Soil Bacteria for Bio-Cementation of Sands. , 2014, , . 90

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#	Article	IF	CITATIONS
91	Variable Penetration Rate Cone Testing in Sands with Fines. , 2014, , .		4
92	Bacteria, Biofilms, and Invertebrates: The Next Generation of Geotechnical Engineers?. , 2014, , .		10
93	Evaluation of a logarithmic-law strength rate parameter using full-flow penetrometers. Geotechnical Research, 2014, 1, 53-59.	1.4	2
94	Experimental Optimization of Microbial-Induced Carbonate Precipitation for Soil Improvement. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2013, 139, 587-598.	3.0	369
95	Closure to "Evaluation of Undrained Shear Strength Using Full-Flow Penetrometers―by Jason T. DeJong, Nicholas J. Yafrate, and Don J. DeGroot. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2012, 138, 765-767.	3.0	8
96	Influence of Partial Consolidation during Cone Penetration on Estimated Soil Behavior Type and Pore Pressure Dissipation Measurements. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2012, 138, 777-788.	3.0	82
97	Fabrication, Operation, and Health Monitoring of Bender Elements for Aggressive Environments. Geotechnical Testing Journal, 2012, 35, 103300.	1.0	39
98	Seismic and Resistivity Measurements for Real-Time Monitoring of Microbially Induced Calcite Precipitation in Sand. Geotechnical Testing Journal, 2012, 35, 330-341.	1.0	15
99	Microbial Carbonate Precipitation: Correlation of S-Wave Velocity with Calcite Precipitation. , 2011, , .		25
100	Soil engineering <i>in vivo</i> : harnessing natural biogeochemical systems for sustainable, multi-functional engineering solutions. Journal of the Royal Society Interface, 2011, 8, 1-15.	3.4	156
101	A Reusable Instrumented Test Pile for Improved Pile Design. , 2011, , .		0
102	Effects of environmental factors on microbial induced calcium carbonate precipitation. Journal of Applied Microbiology, 2011, 111, 338-349.	3.1	427
103	Observing strain localisation processes in bio-cemented sand using x-ray imaging. Granular Matter, 2011, 13, 247-250.	2.2	69
104	Evaluation of Undrained Shear Strength Using Full-Flow Penetrometers. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2011, 137, 14-26.	3.0	67
105	Closure to "Evaluation of Remolded Shear Strength and Sensitivity of Soft Clay Using Full-Flow Penetrometers―by Nicholas Yafrate, Jason DeJong, Don DeGroot, and Mark Randolph. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2011, 137, 440-441.	3.0	0
106	Bio-mediated soil improvement. Ecological Engineering, 2010, 36, 197-210.	3.6	1,177
107	Recommended Practice for Full-Flow Penetrometer Testing and Analysis. Geotechnical Testing Journal, 2010, 33, 137-149.	1.0	20
108	Evaluation of Remolded Shear Strength and Sensitivity of Soft Clay Using Full-Flow Penetrometers. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2009, 135, 1179-1189.	3.0	58

#	Article	IF	CITATIONS
109	Bio-Mediated Soil Improvement: Load Transfer Mechanisms at the Micro- and Macro- Scales. , 2009, , .		68
110	Role of Initial State, Material Properties, and Confinement Condition on Local and Global Soil-Structure Interface Behavior. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2009, 135, 1646-1660.	3.0	167
111	Influence of Particle Properties and Initial Specimen State on One-Dimensional Compression and Hydraulic Conductivity. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2009, 135, 449-454.	3.0	16
112	Evaluation of Seasonal and Yearly Behavior of an Integral Abutment Bridge. Journal of Bridge Engineering, 2007, 12, 296-305.	2.9	35
113	Integral Abutment Bridge Behavior: Parametric Analysis of a Massachusetts Bridge. Journal of Bridge Engineering, 2007, 12, 64-71.	2.9	49
114	Microbially Induced Cementation to Control Sand Response to Undrained Shear. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2006, 132, 1381-1392.	3.0	1,136
115	Evolution of Sand-Structure Interface Response during Monotonic Shear Using Particle Image Velocimetry. , 2006, , 1.		9
116	Microscale Observation and Modeling of Soil-Structure Interface Behavior Using Particle Image Velocimetry. Soils and Foundations, 2006, 46, 15-28.	3.1	138
117	Calibrated Models of Deicing Agent Solids, Pavement Texture, and Specific Conductivity of Highway Runoff. Journal of Environmental Engineering, ASCE, 2006, 132, 1562-1571.	1.4	7
118	In Situ Assessment of Role of Surface Roughness on Interface Response. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2005, 131, 498-511.	3.0	46
119	Influence of Daily and Annual Thermal Variations on Integral Abutment Bridge Performance. , 2004, , 496.		4
120	Interface Behavior of Granular Soils. , 2004, , 65.		30
121	Interface Load Transfer Degradation During Cyclic Loading: A Microscale Investigation. Soils and Foundations, 2003, 43, 81-93.	3.1	121
122	Shear failure behavior of granular–continuum interfaces. Engineering Fracture Mechanics, 2002, 69, 2029-2048.	4.3	117
123	Effect of Surface Texturing on CPT Friction Sleeve Measurements. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2001, 127, 158-168.	3.0	27
124	Measurements of Side Friction Using Textured CPT Friction Sleeves. , 2000, , 80.		3
125	Stimulated Microbial Growth for Permeability Reductions in Granular Soils. Proceedings of the Institution of Civil Engineers: Ground Improvement, 0, , 1-19.	1.0	1