Muhannad T Suleiman

List of Publications by Year
in descending order

59 papers	1,128 citations	430754 18 h-index	414303 32 g-index
60 all docs	60 docs citations	60 times ranked	664 citing authors

#	Article	IF	Citations
1	Mechanical Behavior of Sands Treated by Microbially Induced Carbonate Precipitation. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2016, 142, .	1.5	199
2	Pile Setup in Cohesive Soil. I: Experimental Investigation. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2013, 139, 199-209.	1.5	60
3	Isolation, differentiation and biodiversity of ureolytic bacteria of Qatari soil and their potential in microbially induced calcite precipitation (MICP) for soil stabilization. RSC Advances, 2018, 8, 5854-5863.	1.7	59
4	Development of Pervious Concrete Pile Ground-Improvement Alternative and Behavior under Vertical Loading. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2014, 140, 04014035.	1.5	56
5	Cyclic Lateral Load Response of Bridge Column-Foundation-Soil Systems in Freezing Conditions. Journal of Structural Engineering, 2006, 132, 1745-1754.	1.7	47
6	Effects of Seasonal Freezing on Bridge Columnâ€“Foundationâ€“Soil Interaction and Their Implications. Earthquake Spectra, 2007, 23, 199-222.	1.6	46
7	Pile Setup in Cohesive Soil. II: Analytical Quantifications and Design Recommendations. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2013, 139, 210-222.	1.5	46
8	â€œUnderlyingâ€•Causes for Settlement of Bridge Approach Pavement Systems. Journal of Performance of Constructed Facilities, 2007, 21, 273-282.	1.0	41
9	Enhancing the Axial Compression Response of Pervious Concrete Ground Improvement Piles Using Biogrouting. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2016, 142, .	1.5	41
10	Constitutive Model for High Density Polyethylene Material: Systematic Approach. Journal of Materials in Civil Engineering, 2004, 16, 511-515.	1.3	39
11	Current Design and Construction Practices of Bridge Pile Foundations with Emphasis on Implementation of LRFD. Journal of Bridge Engineering, 2010, 15, 749-758.	1.4	37
12	Interaction between Laterally Loaded Pile and Surrounding Soil. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2015, 141, .	1.5	33
13	Soil-Pile Interaction for a Small Diameter Pile Embedded in Granular Soil Subjected to Passive Loading. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2014, 140, .	1.5	30
14	Behavior and Soilâ€“Structure Interaction of Pervious Concrete Ground-Improvement Piles under Lateral Loading. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2016, 142, .	1.5	30
15	Behavior of Slender Piles Subject to Free-Field Lateral Soil Movement. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2008, 134, 428-436.	1.5	25
16	Numerical Analysis of Geosynthetic-Rammed Aggregate Pier Supported Embankments. , 2004, , 657.		23
17	Development and Use of High-Quality Databases of Deep Foundation Load Tests. Transportation Research Record, 2015, 2511, 27-36.	1.0	21
18	Load Transfer in Rammed Aggregate Piers. International Journal of Geomechanics, 2006, 6, 389-398.	1.3	19

#	ARTICLE	IF	CITATIONS
19	Behavior of Driven Ultrahigh-Performance Concrete H-Piles Subjected to Vertical and Lateral Loadings. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2010, 136, 1403-1413.	1.5	18
20	Introduction to PILOT Database and Establishment of LRFD Resistance Factors for the Construction Control of Driven Steel H-Piles. Journal of Bridge Engineering, 2011, 16, 728-738.	1.4	18
21	Subsurface Event Detection and Classification Using Wireless Signal Networks. Sensors, 2012, 12, 14862-14886.	2.1	17
22	Investigation of effects of temperature cycles on soil-concrete interface behavior using direct shear tests. Soils and Foundations, 2019, 59, 1213-1227.	1.3	17
23	LRFD Resistance Factors for Design of Driven H-Piles in Layered Soils. Journal of Bridge Engineering, 2011, 16, 739-748.	1.4	16
24	Installation Effects of Controlled Modulus Column Ground Improvement Piles on Surrounding Soil. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2016, 142, .	1.5	16
25	Geotechnical sensing using electromagnetic attenuation between radio transceivers. Smart Materials and Structures, 2012, 21, 125017.	1.8	15
26	Effect of Temperature and Radial Displacement Cycles on Soilâ€"Concrete Interface Properties Using Modified Thermal Borehole Shear Test. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2018, 144, .	1.5	15
27	Structural Response of Pervious Concrete Pavement Systems Using Falling Weight Deflectometer Testing and Analysis. Journal of Transportation Engineering, 2011, 137, 907-917.	0.9	14
28	A Radio Propagation Model for Wireless Underground Sensor Networks. , 2011, , .		13
29	Mechanically reinforced granular shoulders on soft subgrade: Laboratory and full scale studies. Geotextiles and Geomembranes, 2011, 29, 149-160.	2.3	13
30	Use of Geothermal Deep Foundations for Bridge Deicing. Transportation Research Record, 2013, 2363, 56-65.	1.0	13
31	Modifiedâ€"Thermal Borehole Shear Test Device and Testing Procedure to Investigate the Soil-Structure Interaction of Energy Piles. Geotechnical Testing Journal, 2017, 40, 1043-1056.	0.5	12
32	Performance Problems and Stabilization Techniques for Granular Shoulders. Journal of Performance of Constructed Facilities, 2010, 24, 159-169.	1.0	10
33	Enhanced Load-Transfer Analysis for Friction Piles Using a Modified Borehole Shear Test. Geotechnical Testing Journal, 2012, 35, 20120071.	0.5	9
34	Improving Prediction of the Load-Displacement Response of Axially Loaded Friction Piles. , 2011, , .		7
35	Removal of Heavy Metals Using Pervious Concrete Material. , 2010, , .		5
36	Subsurface monitoring using low frequency wireless signal networks. , 2012, , .		5

#	Article	IF	Citations
37	Modeling Load-Transfer Behavior of H-Piles Using Direct Shear and Penetration Test Results. Geotechnical Testing Journal, 2014, 37, 20130074.	0.5	5
38	Evaluating Effects of Cyclic Axial Loading on Soil-Pile Interface Properties Utilizing a Recently Developed Cyclic Interface Shear Test Device. , 2021, , .		4
39	Performance of collapsible bridge approach backfill with geosynthetic drainage and reinforcement. Geosynthetics International, 2007, 14, 76-88.	1.5	3
40	Current Design and Construction Practices of Bridge Pile Foundations. , 2009, , .		3
41	Numerical Modeling of Rammed Aggregate Pier Construction. , 2010, , .		3
42	Subsurface geo-applications of wireless signal networks. Proceedings of SPIE, 2011, , .	0.8	3
43	Load and Resistance Factor Design Calibration for Bridge Pile Foundations. Transportation Research Record, 2011, 2204, 233-241.	1.0	3
44	Measuring Soil-structure Interaction on Laterally Loaded Piles with Digital Image Correlation. Procedia IUTAM, 2012, 4, 66-72.	1.2	3
45	A Modeling Approach of Heat Transfer of Bridges Considering Vehicle-Induced Thermal Effects. Journal of Applied Meteorology and Climatology, 2018, 57, 2851-2869.	0.6	3
46	Characterization of Precast UHPC Pile Drivability. , 2009, , .		2
47	LRFD Resistance Factors Including the Influence of Pile Setup for Design of Steel H-Pile Using WEAP. , 2010, , .		2
48	UNIFORM FRACTIONAL FACTORIAL DESIGN TABLES FOR ENERGY PILES WITH MAXIMUM THERMAL CONDUCTANCE. WIT Transactions on Ecology and the Environment, 2017, , .	0.0	2
49	Evaluating the Influence of Surface Roughness on Interface Shear Strength of Cohesive Soil-Structure Interface Subjected to Axial Monotonic Loading. , 2022, , .		2
50	Measured Soil-Pile Interaction Pressures for Small-Diameter Laterally Loaded Pile in Loose Sand. , 2010, , .		1
51	Challenges of subsurface geo-sensing and monitoring using wireless signal networks. , 2012, , .		1
52	Real Time Global Subsurface Monitoring Using New Application of Wireless Signal Networks, Proof of Concept. , 2012, , .		1
53	Closure to â€œPile Setup in Cohesive Soil. I: Experimental Investigationâ€•by Kam W. Ng, Matthew Roling, Sherif S. AbdelSalam, Muhannad T. Suleiman, and Sri Sritharan. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2014, 140, 07013004.	1.5	1
54	Feasibility of Bridge Deicing Using Geothermal Energy Piles in Different U.S. Climates. Transportation Research Record, 0, , 036119812210882.	1.0	1

#	Article	IF	Citations
55	Closure to â€œLoad Transfer in Rammed Aggregate Piersâ€•by Muhannad T. Suleiman and David J. White. International Journal of Geomechanics, 2008, 8, 324-324.	1.3	0
56	Lateral Load Response of a Reaction Column-Foundation System in Different Temperature Conditions. , 2009, , .		0
57	Investigation of LRFD Resistance Factors with Consideration to Soil Variability along the Pile Length. , 2011, , .		0
58	Measured Soil-Pile Interaction for Small Diameter Piles Embedded in Granular Soil Subjected to Lateral Soil Movement. , 2012, , .		0
59	Soil Bonding Using Bio-Inspired Flexible Calcite (BiFC) Precipitation. , 2022, , .		0