

Mohamed Amin Shahin

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

77
papers

2,326
citations

24
h-index

47
g-index

80
ext. papers

2,882
ext. citations

3.3
avg, IF

5.99
L-index

#	Paper	IF	Citations
77	Cementation of sand soil by microbially induced calcite precipitation at various degrees of saturation. <i>Canadian Geotechnical Journal</i> , 2013 , 50, 81-90	3.2	326
76	Data Division for Developing Neural Networks Applied to Geotechnical Engineering. <i>Journal of Computing in Civil Engineering</i> , 2004 , 18, 105-114	4.9	199
75	State-of-the-Art Review of Biocementation by Microbially Induced Calcite Precipitation (MICP) for Soil Stabilization. <i>Geomicrobiology Journal</i> , 2017 , 34, 524-537	2.4	178
74	Predicting Settlement of Shallow Foundations using Neural Networks. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2002 , 128, 785-793	3.4	175
73	Influence of Key Environmental Conditions on Microbially Induced Cementation for Soil Stabilization. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2017 , 143, 04016083	3.4	120
72	Bio-cementation of sandy soil using microbially induced carbonate precipitation for marine environments. <i>Geotechnique</i> , 2014 , 64, 1010-1013	3.4	109
71	State-of-the-art review of some artificial intelligence applications in pile foundations. <i>Geoscience Frontiers</i> , 2016 , 7, 33-44	5.9	87
70	Intelligent computing for modeling axial capacity of pile foundations. <i>Canadian Geotechnical Journal</i> , 2010 , 47, 230-243	3.2	62
69	Recent Advances and Future Challenges for Artificial Neural Systems in Geotechnical Engineering Applications. <i>Advances in Artificial Neural Systems</i> , 2009 , 2009, 1-9		59
68	Soil bio-cementation using a new one-phase low-pH injection method. <i>Acta Geotechnica</i> , 2019 , 14, 615-626	4.8	58
67	Three-dimensional numerical modelling of ballasted railway track foundations for high-speed trains with special reference to critical speed. <i>Transportation Geotechnics</i> , 2016 , 6, 55-65	3.9	54
66	Neural network prediction of pullout capacity of marquee ground anchors. <i>Computers and Geotechnics</i> , 2005 , 32, 153-163	4.3	49
65	Urease active bioslurry: a novel soil improvement approach based on microbially induced carbonate precipitation. <i>Canadian Geotechnical Journal</i> , 2016 , 53, 1376-1385	3.2	47
64	Utilization of Lime for Stabilizing Soft Clay Soil of High Organic Content. <i>Geotechnical and Geological Engineering</i> , 2009 , 27, 105-113	1.5	42
63	Microstructural and Geomechanical Study on Biocemented Sand for Optimization of MICP Process. <i>Journal of Materials in Civil Engineering</i> , 2019 , 31, 04019025	2.9	42
62	Load Settlement modeling of axially loaded steel driven piles using CPT-based recurrent neural networks. <i>Soils and Foundations</i> , 2014 , 54, 515-522	2.8	40
61	Stabilisation of granular media and formation soil using geosynthetics with special reference to railway engineering. <i>Proceedings of the Institution of Civil Engineers: Ground Improvement</i> , 2007 , 11, 27-43 ¹		36

60	Settlement prediction of shallow foundations on granular soils using B-spline neurofuzzy models. <i>Computers and Geotechnics</i> , 2003 , 30, 637-647	4.3	35
59	Enhancing fiber/matrix bonding in polypropylene fiber reinforced cementitious composites by microbially induced calcite precipitation pre-treatment. <i>Cement and Concrete Composites</i> , 2018 , 88, 1-7	8.5	32
58	Pullout capacity of small ground anchors by direct cone penetration test methods and neural networks. <i>Canadian Geotechnical Journal</i> , 2006 , 43, 626-637	3.2	31
57	A review on methods for liberating lithium from pegmatities. <i>Minerals Engineering</i> , 2020 , 145, 106085	4.9	30
56	A review of artificial intelligence applications in shallow foundations. <i>International Journal of Geotechnical Engineering</i> , 2015 , 9, 49-60	1.5	27
55	Surface Percolation for Soil Improvement by Biocementation Utilizing In Situ Enriched Indigenous Aerobic and Anaerobic Ureolytic Soil Microorganisms. <i>Geomicrobiology Journal</i> , 2017 , 34, 546-556	2.4	25
54	Probabilistic Analysis of Soil Consolidation via Prefabricated Vertical Drains. <i>International Journal of Geomechanics</i> , 2013 , 13, 877-881	3	24
53	Neural networks for modelling ultimate pure bending of steel circular tubes. <i>Journal of Constructional Steel Research</i> , 2008 , 64, 624-633	3.7	24
52	Artificial Intelligence in Geotechnical Engineering 2013 , 169-204		24
51	Use of Fly-Ash Geopolymer Incorporating Ground Granulated Slag for Stabilisation of Kaolin Clay Cured at Ambient Temperature. <i>Geotechnical and Geological Engineering</i> , 2019 , 37, 721-740	1.5	20
50	Design of ballasted railway track foundations using numerical modelling. Part I: Development. <i>Canadian Geotechnical Journal</i> , 2018 , 55, 353-368	3.2	21
49	Microbially induced calcite precipitation for production of Bio-bricks treated at partial saturation condition. <i>Construction and Building Materials</i> , 2020 , 231, 117095	6.6	21
48	Modeling the mechanical behavior of railway ballast using artificial neural networks. <i>Canadian Geotechnical Journal</i> , 2006 , 43, 1144-1152	3.2	21
47	Geo-mechanical behavior of clay soils stabilized at ambient temperature with fly-ash geopolymer-incorporated granulated slag. <i>Soils and Foundations</i> , 2019 , 59, 1906-1920	2.8	20
46	Neural network based stochastic design charts for settlement prediction. <i>Canadian Geotechnical Journal</i> , 2005 , 42, 110-120	3.2	20
45	Probabilistic design of ground improvement by vertical drains for soil of spatially variable coefficient of consolidation. <i>Geotextiles and Geomembranes</i> , 2014 , 42, 1-14	5.1	17
44	Use of evolutionary computing for modelling some complex problems in geotechnical engineering. <i>Geomechanics and Geoengineering</i> , 2015 , 10, 109-125	1.4	16
43	Sustainable geopolymer using lithium concentrate residues. <i>Construction and Building Materials</i> , 2019 , 228, 116740	6.6	15

42	Load Settlement Modeling of Axially Loaded Drilled Shafts Using CPT-Based Recurrent Neural Networks. <i>International Journal of Geomechanics</i> , 2014 , 14, 06014012	3	15
41	Simulating the behaviour of reactive soils and slab foundations using hydro-mechanical finite element modelling incorporating soil suction and moisture changes. <i>Computers and Geotechnics</i> , 2018 , 98, 17-34	4.3	13
40	Review of Fly-Ash-Based Geopolymers for Soil Stabilisation with Special Reference to Clay. <i>Geosciences (Switzerland)</i> , 2020 , 10, 249	2.6	13
39	Stabilisation of oil-contaminated soils using microbially induced calcite crystals by bacterial flocs. <i>Geotechnique Letters</i> , 2017 , 7, 146-151	1.6	11
38	Stabilisation of Clay with Fly-Ash Geopolymer Incorporating GGBFS		11
37	Systematic approach to assessing the applicability of fly-ash-based geopolymer for clay stabilization. <i>Canadian Geotechnical Journal</i> , 2020 , 57, 1356-1368	3.2	9
36	Numerical analysis of slab foundations on reactive soils incorporating sand cushions. <i>Computers and Geotechnics</i> , 2019 , 112, 218-229	4.3	8
35	Microbially Induced Calcite Precipitation (MICP) for Soil Stabilization. <i>Ecwise</i> , 2019 , 47-68	0.7	8
34	Design of ballasted railway track foundations using numerical modelling. Part II: Applications. <i>Canadian Geotechnical Journal</i> , 2018 , 55, 369-396	3.2	8
33	Numerical modeling of granular pile-anchor foundations (GPAF) in reactive soils. <i>International Journal of Geotechnical Engineering</i> , 2012 , 6, 149-155	1.5	7
32	Intelligent Computing for Predicting Axial Capacity of Drilled Shafts 2009 ,		8
31	A new model based on evolutionary computing for predicting ultimate pure bending of steel circular tubes. <i>Journal of Constructional Steel Research</i> , 2014 , 94, 84-90	3.7	7
30	Design of Stiffened Slab Foundations on Reactive Soils Using 3D Numerical Modeling. <i>International Journal of Geomechanics</i> , 2020 , 20, 04020097	3	7
29	Cyclic behaviour of clay stabilised with fly-ash based geopolymer incorporating ground granulated slag. <i>Transportation Geotechnics</i> , 2021 , 26, 100430	3.9	7
28	Effect of microbially induced calcite precipitation treatment on the bonding properties of steel fiber in ultra-high performance concrete. <i>Journal of Building Engineering</i> , 2022 , 50, 104132	5.1	6
27	Genetic Programming for Modelling of Geotechnical Engineering Systems 2015 , 37-57		6
26	A Note on Void Ratio of Fibre-Reinforced Soils. <i>International Journal of Geosynthetics and Ground Engineering</i> , 2015 , 1, 1	2	5
25	Investigation into Impact of Train Speed for Behavior of Ballasted Railway Track Foundations. <i>Procedia Engineering</i> , 2016 , 143, 1152-1159		5

24	Three-dimensional finite element analysis of spatially variable PVD improved ground. <i>Georisk</i> , 2015 , 9, 37-48	1.8	5
23	Probabilistic analyses of soil consolidation by prefabricated vertical drains for single-drain and multi-drain systems. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2016 , 40, 2398-2420	3.9	4
22	Artificial intelligence for modeling load-settlement response of axially loaded bored piles 2014 , 491-495		4
21	Stabilization of Ballasted Rail Tracks and Underlying Soft Formation Soils with Geosynthetic Grids and Drains 2006 , 143		4
20	Parametric Study on the Resilient Response of Ballasted Railway Track Substructure Using Numerical Modeling 2006 , 1		4
19	Closure to Predicting Settlement of Shallow Foundations Using Neural Networks by Mohamed A. Shahin, Holger R. Maier, and Mark B. Jaksa. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2003 , 129, 1175-1177	3.4	4
18	Relevance vector machine and multivariate adaptive regression spline for modelling ultimate capacity of pile foundation. <i>Journal of Numerical Methods in Civil Engineering</i> , 2016 , 1, 37-45	0.3	4
17	Experimental and Analytical Study on Geomechanical Behavior of Biocemented Sand. <i>International Journal of Geomechanics</i> , 2021 , 21, 04021126	3	3
16	Bio-composites treatment for mitigation of current-induced riverbank soil erosion. <i>Science of the Total Environment</i> , 2021 , 800, 149513	10.1	3
15	Use of slag (with cement) for improving the performance of expansive soil of road pavement subgrade. <i>MATEC Web of Conferences</i> , 2019 , 276, 05002	0.3	2
14	Effects of soil spatial variability on axisymmetric versus plane strain analyses of ground improvement by prefabricated vertical drains. <i>International Journal of Geotechnical Engineering</i> , 2012 , 6, 139-147	1.5	2
13	Design of Ram-Compacted Bearing Base Piling Foundations by Simple Numerical Modelling Approach and Artificial Intelligence Technique. <i>International Journal of Geosynthetics and Ground Engineering</i> , 2021 , 7, 1	2	2
12	Reliability-based semi-analytical solution for ground improvement by PVDs incorporating inherent (spatial) variability of soil. <i>Computers and Geotechnics</i> , 2015 , 67, 121-134	4.3	1
11	Experimental Investigation into Multistage versus Conventional Triaxial Compression Tests for a C-Phi Soil. <i>Applied Mechanics and Materials</i> , 2011 , 90-93, 28-32	0.3	1
10	Bio-Cementation for Improving Soil Thermal Conductivity. <i>Sustainability</i> , 2021 , 13, 10238	3.5	1
9	Design of Ballasted Railway Track Foundations under Cyclic Loading 2009 ,		1
8	Modeling of Ground Improvement by Prefabricated Vertical Drains in Highly Variable Soils 2012 ,		1
7	Mitigation of alkali-silica reaction by microbially induced CaCO ₃ protective layer on aggregates. <i>Construction and Building Materials</i> , 2022 , 328, 127065	6.6	

6	State-of-the-Art Review of Enzyme-Induced Calcite Precipitation (EICP) for Ground Improvement: Applications and Prospects. <i>Geosciences (Switzerland)</i> , 2021 , 11, 492	2.6	0
5	Honors Lecture: Biological Cementation of Unstable Soils and Grounds for Civil Infrastructure Developments. <i>Sustainable Civil Infrastructures</i> , 2019 , 1-9	0.2	
4	Laboratory Investigation into Applicability of Red Sand-Bitumen Mixture as Landfill Liner. <i>Applied Mechanics and Materials</i> , 2012 , 178-181, 1022-1025	0.3	
3	Reply to the discussion by Das and Sivakugan on Intelligent computing for modeling axial capacity of pile foundations. Appears in Canadian Geotechnical Journal, 47(8): 928-930. <i>Canadian Geotechnical Journal</i> , 2010 , 47, 931-934	3.2	
2	In situ biomass flocculation improves placement of <i>Sporosarcina Pasteurii</i> for microbially mediated sandy soil stabilization. <i>Acta Geotechnica</i> , 1	4.8	
1	Geomechanical Behaviour of Clay Stabilised with Fly-Ash-Based Geopolymer for Deep Mixing. <i>Geosciences (Switzerland)</i> , 2022 , 12, 207	2.6	