

Mohammed A Gabr

List of Publications by Year in descending order

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71
papers

635
citations

687335

13
h-index

677123

22
g-index

73
all docs

73
docs citations

73
times ranked

450
citing authors

#	ARTICLE	IF	CITATIONS
1	Critical Evaluation of Factors Required To Terminate the Postclosure Monitoring Period at Solid Waste Landfills. <i>Environmental Science & Technology</i> , 2002, 36, 3457-3464.	10.0	102
2	Characteristics of Geogrid-Reinforced Aggregate Under Cyclic Load. <i>Transportation Research Record</i> , 2002, 1786, 29-35.	1.9	59
3	Lateral Analysis of Piers Constructed on Slopes. <i>Journal of Geotechnical Engineering</i> , 1990, 116, 1831-1850.	0.4	41
4	Investigating challenges of in situ delivery of microbial-induced calcium carbonate precipitation (MICP) in fine-grain sands and silty sand. <i>Canadian Geotechnical Journal</i> , 2019, 56, 1889-1900.	2.8	36
5	Enhancement of Coal Ash Compressibility Parameters Using Microbial-Induced Carbonate Precipitation. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2019, 145, .	3.0	31
6	Microbial induced calcium carbonate precipitation in coal ash. <i>Geotechnique</i> , 2019, 69, 727-740.	4.0	26
7	Optimum location of geogrid reinforcement in unpaved road. <i>Canadian Geotechnical Journal</i> , 2017, 54, 1047-1054.	2.8	25
8	Bridge Pier Scour: An overview of factors affecting the phenomenon and comparative evaluation of selected models. <i>Transportation Geotechnics</i> , 2021, 28, 100549.	4.5	24
9	Effect of Boundary Conditions on Buckling of Friction Piles. <i>Journal of Engineering Mechanics - ASCE</i> , 1994, 120, 1392-1400.	2.9	19
10	Effect of repeated rise and fall of water level on seepage-induced deformation and related stability analysis of Princeville levee. <i>Engineering Geology</i> , 2020, 266, 105458.	6.3	19
11	Distribution and Properties of Microbially Induced Carbonate Precipitation in Underwater Sand Bed. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2021, 147, .	3.0	16
12	Retaining Wall Field Condition Inspection, Rating Analysis, and Condition Assessment. <i>Journal of Performance of Constructed Facilities</i> , 2016, 30, .	2.0	15
13	Coupled analysis for response and instability of sloping seabed under wave action. <i>Applied Ocean Research</i> , 2019, 88, 99-110.	4.1	15
14	Scour Mitigation and Erodibility Improvement Using Microbially Induced Carbonate Precipitation. <i>Geotechnical Testing Journal</i> , 2021, 44, 20190478.	1.0	12
15	Laterally Loaded Drilled Shafts Embedded in Soft Rock. <i>Transportation Research Record</i> , 2001, 1772, 3-11.	1.9	11
16	Resilient modulus prediction of soft low-plasticity Piedmont residual soil using dynamic cone penetrometer. <i>Journal of Rock Mechanics and Geotechnical Engineering</i> , 2018, 10, 323-332.	8.1	10
17	Deformation-Resistance Model for Geogrid-Reinforced Unpaved Road. <i>Transportation Research Record</i> , 2006, 1975, 146-154.	1.9	10
18	Assessment of remedial measures to reduce exceedance probability of performance limit states in embankment dams. <i>Computers and Geotechnics</i> , 2015, 67, 213-222.	4.7	9

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19	Subgrade resilient modulus prediction using light-weight deflectometer data. Canadian Geotechnical Journal, 2017, 54, 304-312.	2.8	9
20	A Potential Model for Compaction Evaluation of Piedmont Soils Using Dynamic Cone Penetrometer (DCP). Geotechnical Testing Journal, 2001, 24, 308-313.	1.0	9
21	Discussion of "Analysis of Laterally Loaded Shafts in Rock" by John P. Carter and Fred H. Kulhawy (June, 1992, Vol. 118, No. 6). Journal of Geotechnical Engineering, 1993, 119, 2015-2018.	0.4	8
22	Field P-y curves in weathered rock. Canadian Geotechnical Journal, 2007, 44, 753-764.	2.8	8
23	Multiphase Extraction of Light Non-aqueous Phase Liquid (LNAPL) Using Prefabricated Vertical Wells. Geotechnical and Geological Engineering, 2013, 31, 103-118.	1.7	8
24	Assessment of Scour on Bridge Foundations by Means of in Situ Erosion Evaluation Probe. Transportation Research Record, 2013, 2335, 72-78.	1.9	8
25	Deformation Resistance Model for Geogrid-Reinforced Unpaved Road. Transportation Research Record, 2006, 1975, 146-154.	1.9	7
26	Inverse Analysis of Plate Load Tests to Assess Subgrade Resilient Modulus. Transportation Research Record, 2009, 2101, 110-117.	1.9	7
27	Optimized prefabricated vertical wells for light nonaqueous phase liquid recovery. Canadian Geotechnical Journal, 2012, 49, 1434-1443.	2.8	6
28	Model applicability for prediction of residual soil apparent cohesion. Transportation Geotechnics, 2019, 19, 44-53.	4.5	6
29	Quantifying probability of deceedance estimates of clear water local scour around bridge piers. Journal of Hydrology, 2021, 597, 126177.	5.4	6
30	Simplified Lateral Analysis of Deep Foundation Supported Bridge Bents: Driven Pile Case Studies. Journal of Bridge Engineering, 2011, 16, 558-569.	2.9	5
31	Reactive Transport Modeling of Microbial Induced Calcium Carbonate Precipitation Utilizing Various Configurations of Injection Wells. , 2022, , .		5
32	Geosynthetic Reinforcement for Soft Foundations: US Perspectives. , 2005, , 1.		4
33	A Point of Fixity Model for Pile and Shaft Bents. , 2007, , 1.		4
34	Framework for Defining Asset Features to Monitor and Assess Earth-Retaining Structures. Transportation Research Record, 2016, 2579, 8-16.	1.9	4
35	Assessment of Mitigation Measures against Benzene Breakthrough into Subsurface Concrete Pipe. Journal of Pipeline Systems Engineering and Practice, 2021, 12, 04020064.	1.6	4
36	Laboratory Characterization of Jetting-Induced Disturbance Zones. , 2007, , 1.		3

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37	Evaluation of Rotational Stiffness of Elastomeric Bearing Pad-Anchor Bolt Connections on Deep Foundation Bents. Journal of Bridge Engineering, 2009, 14, 487-495.	2.9	3
38	Experimental Evaluation of Recycled Aggregate Porous Concrete Piles for Soft Ground Improvement. Marine Georesources and Geotechnology, 2016, 34, 712-720.	2.1	3
39	Approach for Estimating Effective Friction Angle from Cone Penetration Test in Unsaturated Residual Soils. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2017, 143, .	3.0	3
40	Deformation Monitoring for the Assessment of Sacramento Delta Levee Performance. , 2017, , .		3
41	Simulated Implementation Approach for Microbially Induced Carbonate Precipitation Improvement of Soil Adjacent to Piles. , 2019, , .		3
42	Degradation Model for the Tensile Strength of PVC and Rubber Gasket Materials Exposed to Benzene and PCE-Saturated Aqueous Solutions. Transportation Research Record, 2020, 2674, 274-283.	1.9	3
43	Factors Affecting Multiphase Benzene Breakthrough into Drainage Concrete Pipe in the Unsaturated Subsurface Profile. Journal of Pipeline Systems Engineering and Practice, 2021, 12, .	1.6	3
44	Performance Assessment of Geosynthetics and Cement as Subgrade Stabilization Measures. Geotechnical Testing Journal, 2014, 37, 20120206.	1.0	3
45	Correlation of dynamic cone penetrometer index to proof roller test to assess subgrade soils stabilization criterion. International Journal of Geotechnical Engineering, 2018, 12, 284-292.	2.0	2
46	Comparison of Three Retaining Wall Condition Assessment Rating Systems. Journal of Infrastructure Systems, 2018, 24, 04017037.	1.8	2
47	Laboratory Performance Comparison of Stabilized Undercut Subgrade Under Cyclic Loading. Geotechnical Testing Journal, 2010, 33, 453-462.	1.0	2
48	A Simplified Direct Shear Testing Procedure to Evaluate Unsaturated Shear Strength. Geotechnical Testing Journal, 2018, 41, 20150161.	1.0	2
49	Closure to "Lateral Analysis of Piers Constructed on Slopes" by Mohammed A. Gabr and Roy H. Borden (December, 1990, Vol. 116, No. 12). Journal of Geotechnical Engineering, 1992, 118, 970-971.	0.4	1
50	In Situ Measurement of the Scour Potential of Non-Cohesive Sediments (ISEP). , 2010, , .		1
51	In Situ Assessment of Scour Potential with Depth Using Jetting Approach. , 2011, , .		1
52	Sensors, Monitoring, and Health Assessment in the Undergraduate Curriculum. , 2011, , .		1
53	Configuration Optimization of Drilled Shafts Supporting Bridge Structures: Three Case Studies. Practice Periodical on Structural Design and Construction, 2012, 17, 93-101.	1.3	1
54	Subgrade Undercut Criteria Based on Modeling of Rutting and Pumping Response. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2012, 138, 1175-1184.	3.0	1

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55	Degraded secant modulus for permanent deformation of soils. International Journal of Pavement Engineering, 2015, 16, 549-558.	4.4	1
56	Effect of Microbial Induced Calcium Carbonate Precipitation on Compressibility and Hydraulic Conductivity of Fly Ash. , 2018, , .		1
57	Effect of Seawater on the Mechanical Properties of Cement Grout Used for Formation of Micropiles in Marine Applications. , 2018, , .		1
58	Analysis of wave-induced submarine landslides in nearly saturated sediments at intermediate water depths. Marine Georesources and Geotechnology, 2022, 40, 1411-1423.	2.1	1
59	Probabilistic equivalent linear soil spring stiffness analysis for gravity platforms: Illustrative example. Computers and Geotechnics, 1991, 12, 29-54.	4.7	0
60	Discussion of "Model for Capacity of Single Piles in Sand Using Fuzzy Sets" by C. H. Juang, J. L. Wey, and D. J. Elton (December, 1991, Vol. 117, No. 12). Journal of Geotechnical Engineering, 1993, 119, 191-193.	0.4	0
61	Limit Equilibrium and Deformation Analyses of a Geogrid-Reinforced Embankment. , 2007, , .		0
62	Network Level Data Collection for Asset Management of Bridge Approach Slabs. , 2014, , .		0
63	Year in Review. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2016, 142, 01616001.	3.0	0
64	2016: A Year in Review. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2017, 143, 01817001.	3.0	0
65	Closure to "Comparison of Three Retaining Wall Condition Assessment Rating Systems" by Mohammed A. Gabr, William Rasdorf, Daniel J. Findley, Cedrick J. Butler, and Steven A. Bert. Journal of Infrastructure Systems, 2018, 24, 07018002.	1.8	0
66	Effects of Load History on Seepage-Induced Deformation and Associated Performance in Terms of Probability of Exceeding Limit States" Case Study of Princeville Levee. , 2019, , .		0
67	Scour Zone Characterization by Deep Impinging Jet. , 2014, , .		0
68	Evaluation of Pore Water Pressure Prediction Methods under Rapid Drawdown: Case Study of the Pilarcitos Dam Failure. , 2021, , .		0
69	Framework for the Development of Strain-Based Ultimate Performance Limit State Criterion for the Stability of Earthen Embankments. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2022, 148, .	3.0	0
70	Sensitivity Analyses of Hypoplastic Model Parameters to Simulate the Stress-Strain Behavior of MICP-Treated Sand. , 2022, , .		0
71	Effects of MgSO ₄ on Calcium-Silicate-Hydrate. Advances in Civil Engineering Materials, 2021, 10, 440-452.	0.6	0