

Md. Mizanur Rahman

List of Publications by Year in descending order

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Version: 2024-02-01

103
papers

2,509
citations

185998

28
h-index

214527

47
g-index

108
all docs

108
docs citations

108
times ranked

764
citing authors

#	ARTICLE	IF	CITATIONS
1	On equivalent granular void ratio and steady state behaviour of loose sand with fines. Canadian Geotechnical Journal, 2008, 45, 1439-1456.	1.4	206
2	Equivalent granular state parameter and undrained behaviour of sand-fines mixtures. Acta Geotechnica, 2011, 6, 183-194.	2.9	130
3	The prediction of equivalent granular steady state line of loose sand with fines. Geomechanics and Geoengineering, 2008, 3, 179-190.	0.9	115
4	State-of-the-Art Review of Microbial-Induced Calcite Precipitation and Its Sustainability in Engineering Applications. Sustainability, 2020, 12, 6281.	1.6	108
5	Modified state parameter for characterizing static liquefaction of sand with fines. Canadian Geotechnical Journal, 2009, 46, 281-295.	1.4	104
6	Effects of chemical contamination on microscale structural characteristics of intact loess and resultant macroscale mechanical properties. Catena, 2021, 203, 105361.	2.2	93
7	Undrained Behavior of Sand-Fines Mixtures and Their State Parameter. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2014, 140, .	1.5	77
8	Influence of non-plastic fines content on maximum shear modulus of granular materials. Soils and Foundations, 2016, 56, 973-983.	1.3	75
9	Predicting the Onset of Static Liquefaction of Loose Sand with Fines. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2012, 138, 1037-1041.	1.5	74
10	Prediction of Undrained Monotonic and Cyclic Liquefaction Behavior of Sand with Fines Based on the Equivalent Granular State Parameter. International Journal of Geomechanics, 2014, 14, 254-266.	1.3	74
11	Modelling the static liquefaction of sand with low-plasticity fines. Geotechnique, 2014, 64, 881-894.	2.2	71
12	Lubrication performance of pipejacking in soft alluvial deposits. Tunnelling and Underground Space Technology, 2019, 91, 102991.	3.0	66
13	Linkage between static and cyclic liquefaction of loose sand with a range of fines contents. Canadian Geotechnical Journal, 2012, 49, 891-906.	1.4	64
14	Model for prediction of resilient modulus incorporating matric suction for recycled unbound granular materials. Canadian Geotechnical Journal, 2013, 50, 1143-1158.	1.4	61
15	Undrained behaviour of granular material and the role of fabric in isotropic and $\sigma'_v = 0$ consolidations: DEM approach. Geotechnique, 2017, 67, 153-167.	2.2	61
16	Characteristic Behavior of Drained and Undrained Triaxial Compression Tests: DEM Study. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2018, 144, .	1.5	52
17	Reply to the discussion by Wanatowski and Chu on "On equivalent granular void ratio and steady state behaviour of loose sand with fines" Appears in the Canadian Geotechnical Journal, 46(4): 482.. Canadian Geotechnical Journal, 2009, 46, 483-486.	1.4	49
18	Initial shear modulus of sandy soils and equivalent granular void ratio. Geomechanics and Geoengineering, 2012, 7, 219-226.	0.9	47

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19	Predicting onset of cyclic instability of loose sand with fines using instability curves. <i>Soil Dynamics and Earthquake Engineering</i> , 2014, 61-62, 140-151.	1.9	44
20	Interactions of landslide deposit with terrace sediments: Perspectives from velocity of deposit movement and apparent friction angle. <i>Engineering Geology</i> , 2021, 280, 105913.	2.9	43
21	A Review of Enzyme Induced Carbonate Precipitation (EICP): The Role of Enzyme Kinetics. <i>Sustainable Chemistry</i> , 2021, 2, 92-114.	2.2	41
22	Critical State Soil Mechanics for Cyclic Liquefaction and Postliquefaction Behavior: DEM study. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2021, 147, .	1.5	40
23	Characterizing Monotonic Behavior of Pond Ash within Critical State Approach. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2018, 144, .	1.5	38
24	Undrained Behavior of Silty Sand and the Role of Isotropic and KO Consolidation. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2018, 144, .	1.5	37
25	How particle shape affects the critical state, triggering of instability and dilatancy of granular materials “ results from a DEM study. <i>Geotechnique</i> , 2021, 71, 749-764.	2.2	36
26	A comparison of mechanical responses for microbial- and enzyme-induced cemented sand. <i>Geotechnique Letters</i> , 2020, 10, 559-567.	0.6	34
27	Limited flow characteristics of sand with fines under cyclic loading. <i>Geomechanics and Geoengineering</i> , 2010, 5, 15-25.	0.9	33
28	Predicting the Maximum Shear Modulus of Sands Containing Nonplastic Fines. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2017, 143, .	1.5	33
29	Effect of Particle Shape on Constitutive Relation: DEM Study. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2020, 146, .	1.5	32
30	Evaluation of concrete performance with different types of recycled plastic waste for kerb application. <i>Construction and Building Materials</i> , 2021, 293, 123477.	3.2	32
31	Optimisation of chemical constituents on enzyme-induced carbonate precipitation in test-tube and soil. <i>Geotechnical Research</i> , 2021, 8, 66-84.	0.8	31
32	Permanent Strain of Unsaturated Unbound Granular Materials from Construction and Demolition Waste. <i>Journal of Materials in Civil Engineering</i> , 2015, 27, .	1.3	30
33	Instability of Particulate Assemblies under Constant Shear Drained Stress Path: DEM Approach. <i>International Journal of Geomechanics</i> , 2019, 19, .	1.3	29
34	Critical State Study of Natural Silty Sand Instability under Undrained and Constant Shear Drained Path. <i>International Journal of Geomechanics</i> , 2019, 19, .	1.3	27
35	The effect of consolidation on undrained behaviour of granular materials: experiment and DEM simulation. <i>Geotechnical Research</i> , 2018, 5, 199-217.	0.8	26
36	Cyclic liquefaction screening of sand with non-plastic fines: Critical state approach. <i>Geoscience Frontiers</i> , 2020, 11, 429-438.	4.3	26

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37	Evaluating the particle rolling effect on the characteristic features of granular material under the critical state soil mechanics framework. <i>Granular Matter</i> , 2020, 22, 1.	1.1	25
38	Equivalent state theory for mixtures of sand with non-plastic fines: a DEM investigation. <i>Geotechnique</i> , 2021, 71, 423-440.	2.2	24
39	Enzyme induced calcium carbonate precipitation and its engineering application: A systematic review and meta-analysis. <i>Construction and Building Materials</i> , 2021, 308, 125000.	3.2	23
40	The effect of drained pre-shearing on the undrained behaviour of loose sand with a small amount of fines. <i>Acta Geotechnica</i> , 2013, 8, 311-322.	2.9	21
41	The critical state behaviour of granular material in triaxial and direct simple shear condition: A DEM approach. <i>Computers and Geotechnics</i> , 2021, 138, 104325.	2.3	21
42	Optimization of Enzyme Induced Carbonate Precipitation (EICP) as a Ground Improvement Technique. , 2020, , .		16
43	Recycled Clay Masonry and Recycled Concrete Aggregate Blends in Pavement. , 2012, , .		15
44	Vehicular PM Emissions and Urban Public Health Sustainability: A Probabilistic Analysis for Dhaka City. <i>Sustainability</i> , 2020, 12, 6284.	1.6	14
45	Probabilistic Health Risk Assessment of Vehicular Emissions as an Urban Health Indicator in Dhaka City. <i>Sustainability</i> , 2019, 11, 6427.	1.6	13
46	Modelling undrained behaviour of sand with fines and fabric anisotropy. <i>Acta Geotechnica</i> , 2022, 17, 2305-2324.	2.9	13
47	Undrained Behavior of Sand by DEM Study. , 2015, , .		12
48	The relation between the state indices and the characteristic features of undrained behaviour of silty sand. <i>Soils and Foundations</i> , 2019, 59, 801-813.	1.3	12
49	Stress-Strain Behaviour and Mechanical Strengths of Concrete Incorporating Mixed Recycled Plastics. <i>Journal of Composites Science</i> , 2021, 5, 146.	1.4	12
50	Shear wave velocity and stiffness of sand: the role of non-plastic fines. <i>Geotechnique</i> , 2018, 68, 931-934.	2.2	11
51	Liquefaction of a coal ash investigated by monotonic and cyclic triaxial tests. <i>Soils and Foundations</i> , 2019, 59, 1522-1536.	1.3	9
52	Sustainability Assessment of Using Recycled Aggregates in Concrete Block Pavements. <i>Sustainability</i> , 2020, 12, 4313.	1.6	9
53	Permeable Pavements for Flood Control in Australia: Spatial Analysis of Pavement Design Considering Rainfall and Soil Data. <i>Sustainability</i> , 2022, 14, 4970.	1.6	9
54	Effect of Sand Gradation and Fines Type on Liquefaction Behaviour of Sand-Fines Mixture. , 2008, , .		8

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55	The effect of consolidation path on undrained behaviour of sand – a DEM approach. , 2014, , 175-180.		8
56	Changes in Thornthwaite Moisture Index and Reactive Soil Movements under Current and Future Climate Scenarios – A Case Study. Energies, 2021, 14, 6760.	1.6	7
57	Effect of Initial Partial Saturation on Collapse Behavior of Glacial Sand with Fines. , 2014, , .		6
58	Matric Suction in Recycled Unbound Granular Materials. , 2014, , .		6
59	Probabilistic total PM2.5 emissions from vehicular sources in Australian perspective. Environmental Monitoring and Assessment, 2021, 193, 575.	1.3	6
60	Microwave radiation treatment to improve the strength of recycled plastic aggregate concrete. Case Studies in Construction Materials, 2021, 15, e00728.	0.8	6
61	Unsaturated Hydraulic Conductivity Estimation – A Case Study Modelling the Soil-Atmospheric Boundary Interaction. Processes, 2022, 10, 1306.	1.3	6
62	Hydrophobic Polymer Additive for Stabilization of Aggregates in Local Government Roads. Procedia Engineering, 2016, 143, 26-33.	1.2	5
63	Experimental study on cyclic behavior of post-tensioned segmental retaining walls (PSRWs). Engineering Structures, 2021, 229, 111619.	2.6	5
64	Impact Resistance and Sodium Sulphate Attack Testing of Concrete Incorporating Mixed Types of Recycled Plastic Waste. Sustainability, 2021, 13, 9521.	1.6	5
65	Instability Behaviour for Sandy Soils. , 2011, , .		4
66	A Review of Current Design and Construction Practice for Road Kerbs and a Sustainability Analysis. Sustainability, 2022, 14, 1230.	1.6	4
67	Equivalent Granular State Parameter in Predicting Different Forms of Cyclic Liquefaction Behaviour of Sand with Fines. , 2011, , .		3
68	Cyclic Instability Behaviour of Coal Ash. , 2012, , .		3
69	Monotonic Behavior of Pond Ash under Critical State Soil Mechanics Framework. , 2014, , .		3
70	The State of Art on Equivalent State Theory for Silty Sands. Springer Transactions in Civil and Environmental Engineering, 2021, , 225-246.	0.3	3
71	Comment on: – Influence of inter-granular void ratio on monotonic and cyclic undrained shear response of sandy soils – by M. Belkhatir, A. Arab, H. Missoum, T. Schanz [C. R. Mecanique 338 (2010) 290 – 303]. Comptes Rendus - Mecanique, 2011, 339, 58-58.	2.1	2
72	Spatial Variability of Material Parameter and Bearing Capacity of Clay. Advanced Materials Research, 2012, 629, 433-437.	0.3	2

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73	Is the quasi-steady state a real behaviour? A micromechanical perspective. J. YANG and B. B. DAI (2011). <i>Geotechnique</i> , No. 2, 175-183, http://dx.doi.org/10.1680/geot.8.P.129 . <i>Geotechnique</i> , 2012, 62, 466-468.	2.2	2
74	Prediction of Flexible Pavement's Unbound Granular Materials Using Elasto-Plastic Model SANISAND. , 2019, , .		2
75	Influence of Particle Rolling and Rotation on the Shearing Response of Clean Sand. , 2019, , .		2
76	On Site Improvement of Fines-Rich Unbound Granular Materials with Hydrophobic Polymer and Lime. Sustainability, 2021, 13, 13479.	1.6	2
77	Ageing Effects on the Mechanical Properties of Forty Year Old Embankment Soil. , 2011, , .		1
78	Discussion of the paper: Effect of physical parameters on static undrained resistance of sandy soil with low fines content. <i>Soil Dynamics and Earthquake Engineering</i> , 2013, 52, 138-140.	1.9	1
79	Closure to "Predicting the Onset of Static Liquefaction of Loose Sand with Fines" by Rahman Md. Mizanur and S. R. Lo. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2013, 139, 1845-1846.	1.5	1
80	Effect of Nail Layout Variability on Soil Nailed Wall Analysis. , 2014, , .		1
81	Discussion of "State-of-the-Art: Prediction of Resilient Modulus of Unsaturated Subgrade Soils" by Zhong Han and Sai K. Vanapalli. <i>International Journal of Geomechanics</i> , 2017, 17, 07017012.	1.3	1
82	Discussion of "Effect of Particle Shape and Fine Content on the Behavior of Binary Mixture" by Tang-Tat Ng, Wei Zhou, and Xiao-Lin Chang. <i>Journal of Engineering Mechanics - ASCE</i> , 2017, 143, 07017003.	1.6	1
83	Closure to "Predicting the Maximum Shear Modulus of Sands Containing Nonplastic Fines" by Meisam Goudarzy, Negar Rahemi, Md. Mizanur Rahman, and Tom Schanz. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2019, 145, 07019006.	1.5	1
84	Critical State Theory for Sand with Fines: A DEM Perspective. <i>Sustainable Civil Infrastructures</i> , 2019, , 62-75.	0.1	1
85	Effect of Stress Reversal and Consolidation on Undrained Behaviour of Granular Materials under Cyclic Loading: A DEM Study. , 2020, , .		1
86	Effect of Stress Reversal in Cyclic Instability: A DEM Study. <i>Lecture Notes in Civil Engineering</i> , 2021, , 213-221.	0.3	1
87	Self-centring segmental retaining walls "A new construction system for retaining walls. <i>Frontiers of Structural and Civil Engineering</i> , 2021, 15, 980-1000.	1.2	1
88	STATIC AND CYCLIC LIQUEFACTION OF SAND WITH FINES. , 2011, , .		0
89	Discussion on: "Undrained monotonic response of sand-silt mixtures: effect of nonplastic fines" by Dash, H.K. and Sitharam, T.G. in <i>Geomechanics and Geoenvironmental Engineering: An International Journal</i> , 6(1), 47-58. <i>Geomechanics and Geoenvironmental Engineering</i> , 2013, 8, 62-64.	0.9	0
90	Liquefaction Behavior of Coal Ash under Cyclic Loading. , 2014, , .		0

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91	Undrained Monotonic Behaviors of Silty Sand in Triaxial Extension Shearing. , 2014, , .		0
92	Undrained Behavior of Silty Glacial Sand. , 2014, , .		0
93	Finite Element Analysis for Spatially Stochastic Soil Anisotropic Studies. , 2015, , .		0
94	Discussion of the paper: "Recommendations for extension and re-calibration of an existing sand constitutive model taking into account varying non-plastic fines content" Soil Dynamics and Earthquake Engineering, 2015, 70, 73-74.	1.9	0
95	Is critical state soil mechanics framework applicable to pond ash?. Japanese Geotechnical Society Special Publication, 2016, 2, 292-297.	0.2	0
96	Post-liquefaction Data Collection and Analyses for Earthquakes in New Zealand. Developments in Geotechnical Engineering, 2016, , 241-253.	0.6	0
97	Stress-Strain Behaviour of Adelaide Industrial Sand under Monotonic Loading. , 2019, , .		0
98	Discussion on Revisiting the concept of inter-granular void ratio in view of particle packing theory. Geotechnique Letters, 2021, 11, 1-11.	0.6	0
99	A recent subway construction incident in soft alluvial deposits of Taiwan. , 2021, , 19-25.		0
100	EFFECTS OF FINES AND FINES TYPE ON UNDRAINED BEHAVIOUR OF SANDY SOILS UNDER CRITICAL STATE SOIL MECHANICS FRAMEWORK. , 2011, , .		0
101	Drained Response of Granular Material. Sustainable Civil Infrastructures, 2019, , 175-184.	0.1	0
102	Mix Design and Mechanical Properties of Rubberized Cement Stabilized Soil (RCSS) Pavers. Lecture Notes in Civil Engineering, 2020, , 591-603.	0.3	0
103	A Micro-mechanical Study for Constant Shear Drained Behaviour of Granular Material. Sustainable Civil Infrastructures, 2020, , 48-55.	0.1	0