

Md. Mizanur Rahman

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2700309/publications.pdf>

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	A Review of Current Design and Construction Practice for Road Kerbs and a Sustainability Analysis. Sustainability, 2022, 14, 1230.	1.6	4
2	Modelling undrained behaviour of sand with fines and fabric anisotropy. Acta Geotechnica, 2022, 17, 2305-2324.	2.9	13
3	Permeable Pavements for Flood Control in Australia: Spatial Analysis of Pavement Design Considering Rainfall and Soil Data. Sustainability, 2022, 14, 4970.	1.6	9
4	Unsaturated Hydraulic Conductivity Estimationâ€”A Case Study Modelling the Soil-Atmospheric Boundary Interaction. Processes, 2022, 10, 1306.	1.3	6
5	How particle shape affects the critical state, triggering of instability and dilatancy of granular materials â€” results from a DEM study. Geotechnique, 2021, 71, 749-764.	2.2	36
6	Equivalent state theory for mixtures of sand with non-plastic fines: a DEM investigation. Geotechnique, 2021, 71, 423-440.	2.2	24
7	Critical State Soil Mechanics for Cyclic Liquefaction and Postliquefaction Behavior: DEM study. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2021, 147, .	1.5	40
8	Interactions of landslide deposit with terrace sediments: Perspectives from velocity of deposit movement and apparent friction angle. Engineering Geology, 2021, 280, 105913.	2.9	43
9	Experimental study on cyclic behavior of post-tensioned segmental retaining walls (PSRWs). Engineering Structures, 2021, 229, 111619.	2.6	5
10	Effect of Stress Reversal in Cyclic Instability: A DEM Study. Lecture Notes in Civil Engineering, 2021, , 213-221.	0.3	1
11	The State of Art on Equivalent State Theory for Silty Sands. Springer Transactions in Civil and Environmental Engineering, 2021, , 225-246.	0.3	3
12	A Review of Enzyme Induced Carbonate Precipitation (EICP): The Role of Enzyme Kinetics. Sustainable Chemistry, 2021, 2, 92-114.	2.2	41
13	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
14	A recent subway construction incident in soft alluvial deposits of Taiwan. , 2021, , 19-25.		0
15	Stress-Strain Behaviour and Mechanical Strengths of Concrete Incorporating Mixed Recycled Plastics. Journal of Composites Science, 2021, 5, 146.	1.4	12
16	Evaluation of concrete performance with different types of recycled plastic waste for kerb application. Construction and Building Materials, 2021, 293, 123477.	3.2	32
17	Self-centring segmental retaining wallsâ€”A new construction system for retaining walls. Frontiers of Structural and Civil Engineering, 2021, 15, 980-1000.	1.2	1
18	Impact Resistance and Sodium Sulphate Attack Testing of Concrete Incorporating Mixed Types of Recycled Plastic Waste. Sustainability, 2021, 13, 9521.	1.6	5

#	ARTICLE	IF	CITATIONS
19	Probabilistic total PM2.5 emissions from vehicular sources in Australian perspective. Environmental Monitoring and Assessment, 2021, 193, 575.	1.3	6
20	Effects of chemical contamination on microscale structural characteristics of intact loess and resultant macroscale mechanical properties. Catena, 2021, 203, 105361.	2.2	93
21	Optimisation of chemical constituents on enzyme-induced carbonate precipitation in test-tube and soil. Geotechnical Research, 2021, 8, 66-84.	0.8	31
22	The critical state behaviour of granular material in triaxial and direct simple shear condition: A DEM approach. Computers and Geotechnics, 2021, 138, 104325.	2.3	21
23	Enzyme induced calcium carbonate precipitation and its engineering application: A systematic review and meta-analysis. Construction and Building Materials, 2021, 308, 125000.	3.2	23
24	Changes in Thornthwaite Moisture Index and Reactive Soil Movements under Current and Future Climate Scenariosâ€”A Case Study. Energies, 2021, 14, 6760.	1.6	7
25	Microwave radiation treatment to improve the strength of recycled plastic aggregate concrete. Case Studies in Construction Materials, 2021, 15, e00728.	0.8	6
26	On Site Improvement of Fines-Rich Unbound Granular Materials with Hydrophobic Polymer and Lime. Sustainability, 2021, 13, 13479.	1.6	2
27	Cyclic liquefaction screening of sand with non-plastic fines: Critical state approach. Geoscience Frontiers, 2020, 11, 429-438.	4.3	26
28	Evaluating the particle rolling effect on the characteristic features of granular material under the critical state soil mechanics framework. Granular Matter, 2020, 22, 1.	1.1	25
29	State-of-the-Art Review of Microbial-Induced Calcite Precipitation and Its Sustainability in Engineering Applications. Sustainability, 2020, 12, 6281.	1.6	108
30	Vehicular PM Emissions and Urban Public Health Sustainability: A Probabilistic Analysis for Dhaka City. Sustainability, 2020, 12, 6284.	1.6	14
31	A comparison of mechanical responses for microbial- and enzyme-induced cemented sand. Geotechnique Letters, 2020, 10, 559-567.	0.6	34
32	Effect of Particle Shape on Constitutive Relation: DEM Study. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2020, 146, .	1.5	32
33	Sustainability Assessment of Using Recycled Aggregates in Concrete Block Pavements. Sustainability, 2020, 12, 4313.	1.6	9
34	Optimization of Enzyme Induced Carbonate Precipitation (EICP) as a Ground Improvement Technique. , 2020, , .		16
35	Effect of Stress Reversal and Consolidation on Undrained Behaviour of Granular Materials under Cyclic Loading: A DEM Study. , 2020, , .		1
36	Mix Design and Mechanical Properties of Rubberized Cement Stabilized Soil (RCSS) Pavers. Lecture Notes in Civil Engineering, 2020, , 591-603.	0.3	0

#	ARTICLE	IF	CITATIONS
37	A Micro-mechanical Study for Constant Shear Drained Behaviour of Granular Material. Sustainable Civil Infrastructures, 2020, , 48-55.	0.1	0
38	Lubrication performance of pipejacking in soft alluvial deposits. Tunnelling and Underground Space Technology, 2019, 91, 102991.	3.0	66
39	Prediction of Flexible Pavement's Unbound Granular Materials Using Elasto-Plastic Model SANISAND. , 2019, , .		2
40	Critical State Study of Natural Silty Sand Instability under Undrained and Constant Shear Drained Path. International Journal of Geomechanics, 2019, 19, .	1.3	27
41	Stress-Strain Behaviour of Adelaide Industrial Sand under Monotonic Loading. , 2019, , .		0
42	Influence of Particle Rolling and Rotation on the Shearing Response of Clean Sand. , 2019, , .		2
43	Closure to "Predicting the Maximum Shear Modulus of Sands Containing Nonplastic Fines" by Meisam Goudarzy, Negar Rahemi, Md. Mizanur Rahman, and Tom Schanz. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2019, 145, 07019006.	1.5	1
44	Instability of Particulate Assemblies under Constant Shear Drained Stress Path: DEM Approach. International Journal of Geomechanics, 2019, 19, .	1.3	29
45	The relation between the state indices and the characteristic features of undrained behaviour of silty sand. Soils and Foundations, 2019, 59, 801-813.	1.3	12
46	Liquefaction of a coal ash investigated by monotonic and cyclic triaxial tests. Soils and Foundations, 2019, 59, 1522-1536.	1.3	9
47	Probabilistic Health Risk Assessment of Vehicular Emissions as an Urban Health Indicator in Dhaka City. Sustainability, 2019, 11, 6427.	1.6	13
48	Critical State Theory for Sand with Fines: A DEM Perspective. Sustainable Civil Infrastructures, 2019, , 62-75.	0.1	1
49	Drained Response of Granular Material. Sustainable Civil Infrastructures, 2019, , 175-184.	0.1	0
50	Undrained Behavior of Silty Sand and the Role of Isotropic and K0 Consolidation. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2018, 144, .	1.5	37
51	Shear wave velocity and stiffness of sand: the role of non-plastic fines. Geotechnique, 2018, 68, 931-934.	2.2	11
52	Characterizing Monotonic Behavior of Pond Ash within Critical State Approach. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2018, 144, .	1.5	38
53	Characteristic Behavior of Drained and Undrained Triaxial Compression Tests: DEM Study. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2018, 144, .	1.5	52
54	The effect of consolidation on undrained behaviour of granular materials: experiment and DEM simulation. Geotechnical Research, 2018, 5, 199-217.	0.8	26

#	ARTICLE	IF	CITATIONS
55	Discussion of "State-of-the-Art: Prediction of Resilient Modulus of Unsaturated Subgrade Soils" by Zhong Han and Sai K. Vanapalli. International Journal of Geomechanics, 2017, 17, 07017012.	1.3	1
56	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. Journal of Engineering Mechanics - ASCE, 2017, 143, 07017003.	1.6	1
57	Predicting the Maximum Shear Modulus of Sands Containing Nonplastic Fines. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2017, 143, .	1.5	33
58	Undrained behaviour of granular material and the role of fabric in isotropic and consolidation consolidations: DEM approach. Geotechnique, 2017, 67, 153-167.	2.2	61
59	Is critical state soil mechanics framework applicable to pond ash?. Japanese Geotechnical Society Special Publication, 2016, 2, 292-297.	0.2	0
60	Influence of non-plastic fines content on maximum shear modulus of granular materials. Soils and Foundations, 2016, 56, 973-983.	1.3	75
61	Hydrophobic Polymer Additive for Stabilization of Aggregates in Local Government Roads. Procedia Engineering, 2016, 143, 26-33.	1.2	5
62	Post-liquefaction Data Collection and Analyses for Earthquakes in New Zealand. Developments in Geotechnical Engineering, 2016, , 241-253.	0.6	0
63	Finite Element Analysis for Spatially Stochastic Soil "Anisotropic Studies. , 2015, , .		0
64	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
65	Permanent Strain of Unsaturated Unbound Granular Materials from Construction and Demolition Waste. Journal of Materials in Civil Engineering, 2015, 27, .	1.3	30
66	Undrained Behavior of Sand by DEM Study. , 2015, , .		12
67	Monotonic Behavior of Pond Ash under Critical State Soil Mechanics Framework. , 2014, , .		3
68	Effect of Initial Partial Saturation on Collapse Behavior of Glacial Sand with Fines. , 2014, , .		6
69	Matric Suction in Recycled Unbound Granular Materials. , 2014, , .		6
70	Liquefaction Behavior of Coal Ash under Cyclic Loading. , 2014, , .		0
71	Effect of Nail Layout Variability on Soil Nailed Wall Analysis. , 2014, , .		1
72	Modelling the static liquefaction of sand with low-plasticity fines. Geotechnique, 2014, 64, 881-894.	2.2	71

#	ARTICLE	IF	CITATIONS
73	Undrained Monotonic Behaviors of Silty Sand in Triaxial Extension Shearing. , 2014, , .		0
74	Predicting onset of cyclic instability of loose sand with fines using instability curves. Soil Dynamics and Earthquake Engineering, 2014, 61-62, 140-151.	1.9	44
75	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
76	Undrained Behavior of Sand-Fines Mixtures and Their State Parameter. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2014, 140, .	1.5	77
77	Undrained Behavior of Silty Glacial Sand. , 2014, , .		0
78	The effect of consolidation path on undrained behaviour of sand â€œ a DEM approach. , 2014, , 175-180.		8
79	The effect of drained pre-shearing on the undrained behaviour of loose sand with a small amount of fines. Acta Geotechnica, 2013, 8, 311-322.	2.9	21
80	Discussion of the paper: Effect of physical parameters on static undrained resistance of sandy soil with low fines content. Soil Dynamics and Earthquake Engineering, 2013, 52, 138-140.	1.9	1
81	Closure to â€œPredicting the Onset of Static Liquefaction of Loose Sand with Finesâ€ by Rahman Md. Mizanur and S. R. Lo. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2013, 139, 1845-1846.	1.5	1
82	Model for prediction of resilient modulus incorporating matric suction for recycled unbound granular materials. Canadian Geotechnical Journal, 2013, 50, 1143-1158.	1.4	61
83	Discussion on: â€œUndrained monotonic response of sandâ€ silt mixtures: effect of nonplastic finesâ€ by Dash, H.K. and Sitharam, T.G. in Geomechanics and Geoengineering: An International Journal, 6(1), 47â€58. Geomechanics and Geoengineering, 2013, 8, 62-64.	0.9	0
84	Spatial Variability of Material Parameter and Bearing Capacity of Clay. Advanced Materials Research, 2012, 629, 433-437.	0.3	2
85	Recycled Clay Masonry and Recycled Concrete Aggregate Blends in Pavement. , 2012, , .		15
86	Is the quasi-steady state a real behaviour? A micromechanical perspective. J. YANG and B. B. DAI (2011). Géotechnique 61, No. 2, 175â€183, http://dx.doi.org/10.1680/geot.8.P.129 . Geotechnique, 2012, 62, 466-468.	2.2	2
87	Cyclic Instability Behaviour of Coal Ash. , 2012, , .		3
88	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
89	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
90	Initial shear modulus of sandy soils and equivalent granular void ratio. Geomechanics and Geoengineering, 2012, 7, 219-226.	0.9	47

#	ARTICLE	IF	CITATIONS
91	Equivalent granular state parameter and undrained behaviour of sand-fines mixtures. Acta Geotechnica, 2011, 6, 183-194.	2.9	130
92	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
93	Equivalent Granular State Parameter in Predicting Different Forms of Cyclic Liquefaction Behaviour of Sand with Fines. , 2011, , .		3
94	STATIC AND CYCLIC LIQUEFACTION OF SAND WITH FINES. , 2011, , .		0
95	Ageing Effects on the Mechanical Properties of Forty Year Old Embankment Soil. , 2011, , .		1
96	Instability Behaviour for Sandy Soils. , 2011, , .		4
97	EFFECTS OF FINES AND FINES TYPE ON UNDRAINED BEHAVIOUR OF SANDY SOILS UNDER CRITICAL STATE SOIL MECHANICS FRAMEWORK. , 2011, , .		0
98	Limited flow characteristics of sand with fines under cyclic loading. Geomechanics and Geoengineering, 2010, 5, 15-25.	0.9	33
99	Modified state parameter for characterizing static liquefaction of sand with fines. Canadian Geotechnical Journal, 2009, 46, 281-295.	1.4	104
100	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
101	On equivalent granular void ratio and steady state behaviour of loose sand with fines. Canadian Geotechnical Journal, 2008, 45, 1439-1456.	1.4	206
102	The prediction of equivalent granular steady state line of loose sand with fines. Geomechanics and Geoengineering, 2008, 3, 179-190.	0.9	115
103	Effect of Sand Gradation and Fines Type on Liquefaction Behaviour of Sand-Fines Mixture. , 2008, , .		8