Bhaskar C S Chittoori

List of Publications by Year
in descending order

53 papers	984 citations	430874 18 h-index	477307 29 g-index
53 all docs	53 docs citations	53 times ranked	599 citing authors

#	Article	IF	Citations
1	Increasing Heat–Stress Inequality in a Warming Climate. Earth's Future, 2022, 10, .	6.3	31
2	Machine learning methods to map stabilizer effectiveness based on common soil properties. Transportation Geotechnics, 2021, 27, 100506.	4.5	14
3	Studying the Relationship between Indigenous Microbial Communities, Urease Activity, and Calcite Precipitation in Artificial Mixes of Clay and Sand. , 2021, , .		0
4	A practical framework to assess the sustainability and resiliency of civil infrastructure. Proceedings of the Institution of Civil Engineers: Engineering Sustainability, 2021, 174, 145-158.	0.7	4
5	Microbial-Facilitated Calcium Carbonate Precipitation as a Shallow Stabilization Alternative for Expansive Soil Treatment. Geotechnics, 2021, 1, 558-572.	2.3	4
6	Evaluating the Applicability of Biostimulated Calcium Carbonate Precipitation to Stabilize Clayey Soils. Journal of Materials in Civil Engineering, 2020, 32, .	2.9	55
7	Polyurethane Grout Injection as Remedial Measure to Reduce Differential Heave in Pavement Sections Constructed over Expansive Soils. Journal of Transportation Engineering Part B: Pavements, 2020, 146, 04020068.	1.5	4
8	Efficacy of Enzymatically Induced Calcium Carbonate Precipitation in the Retention of Heavy Metal Ions. Sustainability, 2020, 12, 7019.	3.2	48
9	Application of Bio-Stimulated Calcite Precipitation to Stabilize Expansive Soils: Field Trials. , 2020, , .		6
10	Quality Assurance Studies for Ground Improvement Projects. Developments in Geotechnical Engineering, 2019, , 1-14.	0.6	0
11	Evaluating Shallow Mixing Protocols as Application Methods for Microbial Induced Calcite Precipitation Targeting Expansive Soil Treatment. , 2019, , .		11
12	Estimating Optimal Additive Content for Soil Stabilization Using Machine Learning Methods. , 2019, , .		3
13	Elementary School Student Development of STEM Attitudes and Perceived Learning in a STEM Integrated Robotics Curriculum. TechTrends, 2019, 63, 590-601.	2.3	50
14	Closure to "Long-Term Performance of a Highway Embankment Built with Lightweight Aggregates" by Anand J. Puppala, Sireesh Saride, Raja V. Yenigalla, Bhaskar C. S. Chittoori, and Ekarut Archeewa. Journal of Performance of Constructed Facilities, 2018, 32, 07018003.	2.0	0
15	Effect of fibre reinforcement on CBR behaviour of lime-blended expansive soils: reliability approach. Road Materials and Pavement Design, 2018, 19, 690-709.	4.0	65
16	Effect of polypropylene fibre reinforcement on the consolidation, swell and shrinkage behaviour of lime-blended expansive soil. International Journal of Geotechnical Engineering, 2018, 12, 462-471.	2.0	40
17	Addressing Clay Mineralogy Effects on Performance of Chemically Stabilized Expansive Soils Subjected to Seasonal Wetting and Drying. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2018, 144, .	3.0	54
18	Evaluating the Ability of Swell Prediction Models to Predict the Swell Behavior of Excessively High Plastic Soils. , 2018, , .		2

#	Article	IF	Citations
19	Forensic Investigations into Recurrent Pavement Heave from Underlying Expansive Soil Deposits. Transportation Research Record, 2018, 2672, 118-128.	1.9	15
20	Unified Approach to Sustainability, Resiliency and Risk Assessments. , 2018, , .		2
21	Evaluating the Effectiveness of Soil-Native Bacteria in Precipitating Calcite to Stabilize Expansive Soils. , 2018, , .		11
22	Target Reliability Approach to Study the Effect of Fiber Reinforcement on UCS Behavior of Lime Treated Semiarid Soil. Journal of Materials in Civil Engineering, 2017, 29, .	2.9	44
23	Long-Term Durability Studies on Chemically Treated Reclaimed Asphalt Pavement Material as a Base Layer for Pavements. Transportation Research Record, 2017, 2657, 1-9.	1.9	21
24	Long-Term Performance of a Highway Embankment Built with Lightweight Aggregates. Journal of Performance of Constructed Facilities, 2017, 31, .	2.0	5
25	Optimizing Fiber Parameters Coupled with Chemical Treatment: PROMETHEE Approach. , 2017, , .		3
26	Spatial Mapping of Soluble Sulfate Concentrations Present in Natural Soils Using Geostatistics. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2017, 143, .	3.0	11
27	Effect of Density on the Pore Size and Pore Volume of Expansive Clays. , 2016, , .		9
28	Evaluation of Diffusion Rate Constants from Soil Column Studies in Lime-Treated Semi Arid Soilsâ€"Pb 2+ and Zn 2+ Scenarios. , 2016, , .		0
29	Effect of Fiber Reinforcement on the Hydraulic Conductivity Behavior of Lime-Treated Expansive Soilâ€"Reliability-Based Optimization Perspective. , 2016, , .		12
30	Evaluation of Swell Behavior of Expansive Clays from Internal Specific Surface and Pore Size Distribution. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2016, 142, .	3.0	23
31	Safety Evaluations for Skewed Intersections on Low-Volume Roads. Transportation Research Record, 2015, 2472, 236-242.	1.9	4
32	Flowability and Density Characteristics of Controlled Low-Strength Material Using Native High-Plasticity Clay. Journal of Materials in Civil Engineering, 2015, 27, .	2.9	19
33	Numerical Modeling of a Highway Embankment Using Geofoam Material as Partial Fill Replacement. , 2014, , .		3
34	Strength and Stiffness Characterization of Controlled Low-Strength Material Using Native High-Plasticity Clay. Journal of Materials in Civil Engineering, 2014, 26, .	2.9	30
35	Calcium-based stabiliser treatment of sulfate-bearing soils. Proceedings of the Institution of Civil Engineers: Ground Improvement, 2014, 167, 162-172.	1.0	24
36	Swell and shrinkage strain prediction models for expansive clays. Engineering Geology, 2014, 168, 1-8.	6.3	50

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37	Durability Studies on Native Soil-Based Controlled Low Strength Materials. , 2014, , .		12
38	Experimental Studies on Stabilized Clays at Various Leaching Cycles. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2013, 139, 1665-1675.	3.0	47
39	Swell and shrinkage characterizations of unsaturated expansive clays from Texas. Engineering Geology, 2013, 164, 187-194.	6.3	81
40	Closure to â€œQuantitative Estimation of Clay Mineralogy in Fine-Grained Soilsâ€•by Bhaskar Chittoori and Anand J. Puppala. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2013, 139, 657-658.	3.0	1
41	Stabilization of High-Sulfate Soils by Extended Mellowing. Transportation Research Record, 2013, 2363, 96-104.	1.9	32
42	Slope Stability Assessment Using Field Moisture Data for North Texas Clay Soil. , 2013, , .		0
43	Numerical Modeling of the Impact of Deteriorating Treated Subgrade Modulus due to Seasonal Changes on Pavement Performance. , 2012, , .		1
44	A Comparative Study of Soluble Sulfate Measurement Techniques. , 2012, , .		8
45	Characterization of Clays Using Quantitative XRD and Chemical Analyses. , 2012, , .		1
46	Sustainable Reutilization of Excavated Trench Material. , 2012, , .		29
47	Chemical Amendment of Excavated Trench Material for Sustainable Reuse. , 2012, , .		3
48	Transportation infrastructure settlement and heave distress: challenges and solutions. Journal of Zhejiang University: Science A, 2012, 13, 850-857.	2.4	10
49	Sulfate Induced Heaving of a Taxiway: A Case Study. Indian Geotechnical Journal, 2012, 42, 257.	1.4	6
50	In Situ Matric Suction and Moisture Content Measurements in Expansive Clay during Seasonal Fluctuations. Geotechnical Testing Journal, 2012, 35, 74-82.	1.0	3
51	Quantitative Estimation of Clay Mineralogy in Fine-Grained Soils. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2011, 137, 997-1008.	3.0	72
52	Reliability Based Approach to Quantify Montmorillonite Mineral in Expansive Clays. , 2011, , .		0
53	Subgrade Characterization for Better Ground Improvement Design. , 2008, , .		1