

Sanandam Bordoloi

List of Publications by Year in descending order

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Version: 2024-02-01

52
papers

1,185
citations

361413

20
h-index

395702

33
g-index

53
all docs

53
docs citations

53
times ranked

670
citing authors

#	ARTICLE	IF	CITATIONS
1	Investigation of cracking and water availability of soil-biochar composite synthesized from invasive weed water hyacinth. <i>Bioresource Technology</i> , 2018, 263, 665-677.	9.6	105
2	The effects of vegetation traits and their stability functions in bio-engineered slopes: A perspective review. <i>Engineering Geology</i> , 2020, 275, 105742.	6.3	78
3	Infiltration characteristics of natural fiber reinforced soil. <i>Transportation Geotechnics</i> , 2017, 12, 37-44.	4.5	71
4	Two-year evaluation of hydraulic properties of biochar-amended vegetated soil for application in landfill cover system. <i>Science of the Total Environment</i> , 2020, 712, 136486.	8.0	69
5	Erodibility assessment of compacted biochar amended soil for geo-environmental applications. <i>Science of the Total Environment</i> , 2019, 672, 698-707.	8.0	60
6	Soil desiccation cracking and its characterization in vegetated soil: A perspective review. <i>Science of the Total Environment</i> , 2020, 729, 138760.	8.0	59
7	Improving and correcting unsaturated soil hydraulic properties with plant parameters for agriculture and bioengineered slopes. <i>Rhizosphere</i> , 2016, 1, 58-78.	3.0	56
8	Investigation of infiltration rate for soil-biochar composites of water hyacinth. <i>Acta Geophysica</i> , 2019, 67, 231-246.	2.0	54
9	Soil-biochar-water interactions: Role of biochar from <i>Eichhornia crassipes</i> in influencing crack propagation and suction in unsaturated soils. <i>Journal of Cleaner Production</i> , 2019, 210, 847-859.	9.3	53
10	Adsorption characteristics of Barmer bentonite for hazardous waste containment application. <i>Journal of Hazardous Materials</i> , 2020, 396, 122594.	12.4	48
11	Measurement of mechanical characteristics of fiber from a novel invasive weed: A comprehensive comparison with fibers from agricultural crops. <i>Measurement: Journal of the International Measurement Confederation</i> , 2018, 113, 62-70.	5.0	42
12	Influence of in-house produced biochars on cracks and retained water during drying-wetting cycles: comparison between conventional plant, animal, and nano-biochars. <i>Journal of Soils and Sediments</i> , 2020, 20, 1983-1996.	3.0	37
13	A feasibility study of Indian fly ash-bentonite as an alternative adsorbent composite to sand-bentonite mixes in landfill liner. <i>Environmental Pollution</i> , 2020, 265, 114811.	7.5	28
14	Influence of biochar from animal and plant origin on the compressive strength characteristics of degraded landfill surface soils. <i>International Journal of Damage Mechanics</i> , 2021, 30, 484-501.	4.2	27
15	A Review of Physio-Biochemical Properties of Natural Fibers and Their Application in Soil Reinforcement. <i>Advances in Civil Engineering Materials</i> , 2017, 6, 323-359.	0.6	25
16	A relook into plant wilting: observational evidence based on unsaturated soil-plant-photosynthesis interaction. <i>Scientific Reports</i> , 2020, 10, 22064.	3.3	24
17	Effect of shoot parameters on cracking in vegetated soil. <i>Environmental Geotechnics</i> , 2018, 5, 123-130.	2.3	23
18	Geotechnical and chemical characterization of expansive clayey soil amended by biochar derived from invasive weed species <i>Prosopis juliflora</i> . <i>Innovative Infrastructure Solutions</i> , 2019, 4, 1.	2.2	23

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19	Mechanical performance and micro-structure of bentonite-fly ash and bentonite-sand mixes for landfill liner application. <i>Journal of Cleaner Production</i> , 2021, 292, 126033.	9.3	23
20	Relating stomatal conductance and surface area with evapotranspiration induced suction in a heterogeneous grass cover. <i>Journal of Hydrology</i> , 2019, 568, 867-876.	5.4	22
21	Investigation of mechanical factor of soil reinforced with four types of fibers: An integrated experimental and extreme learning machine approach. <i>Journal of Natural Fibers</i> , 2020, 17, 650-664.	3.1	22
22	Compressive strength analysis of soil reinforced with fiber extracted from water hyacinth. <i>Engineering Computations</i> , 2017, 34, 330-342.	1.4	21
23	Long-term hydraulic performance of landfill cover system in extreme humid region: Field monitoring and numerical approach. <i>Science of the Total Environment</i> , 2019, 688, 409-423.	8.0	20
24	Water Retention and Desiccation Potential of Lignocellulose-Based Fiber-Reinforced Soil. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2019, 145, .	3.0	18
25	Effect of biochar type on infiltration, water retention and desiccation crack potential of a silty sand. <i>Biochar</i> , 2020, 2, 465-478.	12.6	18
26	ANN Model Development for Air Permeability in Biochar Amended Unsaturated Soil. <i>Geotechnical and Geological Engineering</i> , 2020, 38, 1295-1309.	1.7	17
27	Critical Assessment of Infiltration Measurements for Soils with Varying Fine Content Using a Mini Disk Infiltrometer. <i>Journal of Testing and Evaluation</i> , 2019, 47, 868-888.	0.7	14
28	Exploring implication of variation in biochar production on geotechnical properties of soil. <i>Biomass Conversion and Biorefinery</i> , 2024, 14, 5791-5801.	4.6	11
29	A New Autonomous Program Customized for Computing Surface Cracks in an Unsaturated Soil in a 1-D Column. <i>Journal of Testing and Evaluation</i> , 2019, 47, 3822-3835.	0.7	11
30	Relationship between matric suction and leaf indices of <i>Schefflera arboricola</i> in biochar amended soil. <i>Canadian Geotechnical Journal</i> , 2022, 59, 191-202.	2.8	10
31	Probabilistic analysis of soil suction and cracking in fibre-reinforced soil under drying-wetting cycles in India. <i>Environmental Geotechnics</i> , 2019, 6, 188-203.	2.3	9
32	Investigating plant root effects on soil electrical conductivity: An integrated field monitoring and statistical modelling approach. <i>Earth Surface Processes and Landforms</i> , 2019, 44, 825-839.	2.5	9
33	Seepage characteristics of three-layered landfill cover system constituting fly-ash under extreme ponding condition. <i>Science of the Total Environment</i> , 2021, 758, 143683.	8.0	9
34	Sustainable Geotechnics: A Bio-geotechnical Perspective. <i>Developments in Geotechnical Engineering</i> , 2019, , 313-331.	0.6	8
35	Assessment of hydro-mechanical properties of biochar-amended soil sourced from two contrasting feedstock. <i>Biomass Conversion and Biorefinery</i> , 2024, 14, 5803-5818.	4.6	8
36	Water retention models for soils mixed with waste residues: application of the modified van-Genuchten and Brooks-Corey models. <i>Biomass Conversion and Biorefinery</i> , 2022, 12, 5059-5066.	4.6	6

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37	Chemically Altered Natural Fiber Impregnated Soil for Improving Subgrade Strength of Pavements. <i>Advances in Civil Engineering Materials</i> , 2018, 7, 48-63.	0.6	6
38	Assessment of soil erosion models for predicting soil loss in cracked vegetated compacted surface layer. <i>Acta Geophysica</i> , 2022, 70, 333-347.	2.0	6
39	Nano-Particle Coated Natural Fiber Impregnated Soil as a Sustainable Reinforcement Material. , 2018, , .		5
40	A New Intelligent Model for Computing Crack in Compacted Soil-Biochar Mix: Application in Green Infrastructure. <i>Geotechnical and Geological Engineering</i> , 2020, 38, 201-214.	1.7	5
41	Modeling Dependence Among Suction, Moisture, and Cracking of a Novel Biochar Synthesized from Weed Species. <i>Advances in Civil Engineering Materials</i> , 2020, 9, 90-104.	0.6	5
42	Impact Assessment of Vegetation Growth on Soil Erosion of a Landfill Cover Surface. <i>Acta Horticulturae Et Regiotecturae</i> , 2019, 22, 75-79.	1.0	4
43	Exploring the theoretical effects of landfill based microplastic accumulation on the hydro-mechanical properties of porous soil media. <i>Current Opinion in Environmental Science and Health</i> , 2022, 26, 100332.	4.1	4
44	Exploring simple K-means clustering algorithm for automating segregation of colors in leaf of <i>Axonopus compressus</i> : Towards maintenance of an urban landscape. <i>Journal of Intelligent and Fuzzy Systems</i> , 2021, 40, 1219-1243.	1.4	2
45	Erosion Potential of Compacted Surface Soils for Multilayered Cover System. <i>Advances in Civil Engineering Materials</i> , 2019, 8, 134-144.	0.6	2
46	Assessment of Flexural and Splitting Strength of Fiber-Reinforced Concrete Using Artificial Intelligence. <i>Advances in Civil Engineering Materials</i> , 2019, 8, 20190030.	0.6	2
47	Hydraulic conductivity variation in compacted bentonite-fly ash mixes under constant-volume and free-swelling flow conditions. <i>Canadian Geotechnical Journal</i> , 2022, 59, 1096-1113.	2.8	2
48	Influence of Physical and Biochemical Composition of Three Cellulose Fibers on Cracking of Soil. <i>Environmental Science and Engineering</i> , 2019, , 348-355.	0.2	1
49	Model Development for Computing Cracking in Soil Reinforced with Fibers from Three Different Bioresources. <i>Advances in Civil Engineering Materials</i> , 2018, 7, 669-693.	0.6	1
50	Role of biochar as a cover material in landfill waste disposal system: Perspective on unsaturated hydraulic properties. <i>Advances in Chemical Pollution, Environmental Management and Protection</i> , 2021, 7, 93-106.	0.5	1
51	Effect of Initial Compaction State on Erosion Potential for Cover Liner. <i>Environmental Science and Engineering</i> , 2019, , 589-597.	0.2	0
52	Demonstration and Validation of a Biosensing Technique to Interpret Suction Induced in Vegetated Soil. <i>Indian Geotechnical Journal</i> , 0, , 1.	1.4	0