

Cumaraswamy Vipulanandan

List of Publications by Year in descending order

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34
papers

957
citations

361413

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34
times ranked

779
citing authors

#	ARTICLE	IF	CITATIONS
1	Comparison between Mohr-Coulomb failure criterion and Vipulanandan failure models to predict the maximum J_2 Invariant and behaviour of clay (CH). Geomechanics and Geoengineering, 2022, 17, 1905-1922.	1.8	1
2	3-dimension stresses and new failure model to predict behavior of clay soils in various liquid limit ranges. Arabian Journal of Geosciences, 2021, 14, 1.	1.3	6
3	Characterization of Lime and Polymer Treated Ultra-Soft Clay Soils Using the Modified Vane Shear and Correlating the Shear Strengths to the Electrical Resistivity and CIGMAT Miniature Penetrometer for Nondestructive Field Tests. Geotechnical and Geological Engineering, 2021, 39, 3047-3063.	1.7	2
4	Measurement and evaluation of soft soil strength development during freeze-thaw process based on electromechanical impedance technique. Measurement Science and Technology, 2021, 32, 025113.	2.6	9
5	Salt contamination and temperature impacts on the rheological and electrical resistivity behaviors of water based drilling mud. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2020, 42, 344-364.	2.3	8
6	Characterizing distinctive drilling mud properties using new proposed hyperbolic fluid loss model for high pressure and high temperature conditions. Journal of King Saud University, Engineering Sciences, 2020, , .	2.0	0
7	A novel method to monitor soft soil strength development in artificial ground freezing projects based on electromechanical impedance technique: Theoretical modeling and experimental validation. Journal of Intelligent Material Systems and Structures, 2020, 31, 1477-1494.	2.5	23
8	Real-Time Gas Leak Detection and Quantification using Smart Cement. , 2020, , .		2
9	Real-time monitoring stiffness degradation of hardened cement paste under uniaxial compression loading through piezoceramic-based electromechanical impedance method. Construction and Building Materials, 2020, 256, 119395.	7.2	30
10	Biosurfactant Production from Used Vegetable Oil in the Anode Chamber of a Microbial Electrosynthesizing Fuel Cell. Waste and Biomass Valorization, 2019, 10, 2925-2931.	3.4	5
11	Effects of Fe, Ni, and Fe/Ni metallic nanoparticles on power production and biosurfactant production from used vegetable oil in the anode chamber of a microbial fuel cell. Waste Management, 2017, 66, 169-177.	7.4	25
12	Non-destructive experimental testing and modeling of electrical impedance behavior of untreated and treated ultra-soft clayey soils. Journal of Rock Mechanics and Geotechnical Engineering, 2017, 9, 543-550.	8.1	5
13	Testing and Modeling the Short-Term Behavior of Lime and Fly Ash Treated Sulfate Contaminated CL Soil. Geotechnical and Geological Engineering, 2015, 33, 1099-1114.	1.7	61
14	Compressive and Tensile Behavior of Polymer Treated Sulfate Contaminated CL Soil. Geotechnical and Geological Engineering, 2014, 32, 71-83.	1.7	80
15	Effects of Fe nanoparticles on bacterial growth and biosurfactant production. Journal of Nanoparticle Research, 2013, 15, 1.	1.9	21
16	Effects of Au/Fe and Fe nanoparticles on Serratia bacterial growth and production of biosurfactant. Materials Science and Engineering C, 2013, 33, 3909-3915.	7.3	23
17	Effects of Surfactants on Solubilization of Perchloroethylene (PCE) and Trichloroethylene (TCE). Industrial & Engineering Chemistry Research, 2011, 50, 5831-5837.	3.7	28
18	Solubilization and degradation of perchloroethylene (PCE) in cationic and nonionic surfactant solutions. Journal of Environmental Sciences, 2011, 23, 1240-1248.	6.1	11

#	ARTICLE	IF	CITATIONS
19	Artificial Neural Network and Nonlinear Models for Gelling Time and Maximum Curing Temperature Rise in Polymer Grouts. Journal of Materials in Civil Engineering, 2011, 23, 372-377.	2.9	40
20	Nanotechnology for Various Applications: Materials, Environmental and Medical. , 2011, , 203-218.		0
21	Simplified Relationships for Particle-Size Distribution and Permeation Groutability Limits for Soils. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2009, 135, 1190-1197.	3.0	41
22	Electrical Resistivity, Pulse Velocity, and Compressive Properties of Carbon Fiber-Reinforced Cement Mortar. Journal of Materials in Civil Engineering, 2008, 20, 93-101.	2.9	40
23	Evaluation of Asymmetric Liposomal Nanoparticles for Encapsulation of Polynucleotides. Langmuir, 2008, 24, 8533-8540.	3.5	29
24	Characterization of Y2BaCuO5 nanoparticles synthesized by nano-emulsion method. Journal of Nanoparticle Research, 2007, 9, 841-852.	1.9	5
25	Effects of surfactants and electrolyte solutions on the properties of soil. Environmental Geology, 2006, 49, 977-989.	1.2	45
26	Effect of Grain Size and Distribution on Permeability and Mechanical Behavior of Acrylamide Grouted Sand. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2005, 131, 1457-1465.	3.0	62
27	Microemulsion and solution approaches to nanoparticle iron production for degradation of trichloroethylene. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2003, 223, 103-112.	4.7	153
28	Cyclic and Damping Properties of Silicate-Grouted Sand. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2000, 126, 650-656.	3.0	24
29	Enhanced Solubility and Biodegradation of Naphthalene with Biosurfactant. Journal of Environmental Engineering, ASCE, 2000, 126, 629-634.	1.4	69
30	Factors Affecting Mechanical and Creep Properties of Silicate-Grouted Sands. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 1999, 125, 868-876.	3.0	34
31	Cohesive and Adhesive Properties of Silicate Grout on Grouted-Sand Behavior. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 1998, 124, 38-44.	3.0	29
32	Laboratory Modeling of Vibro-Driven Piles. Journal of Geotechnical Engineering, 1990, 116, 1190-1209.	0.4	20
33	Behavior of Vibro-Driven Piles in Sand. Journal of Geotechnical Engineering, 1990, 116, 1211-1230.	0.4	11
34	Mechanical Behavior of Chemically Grouted Sand. Journal of Geotechnical Engineering, 1986, 112, 869-887.	0.4	15