Cumaraswamy Vipulanandan

List of Publications by Year
in descending order

34	957	361413 20	434195 31
papers	citations	h-index	g-index

34	34	34	779
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	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
2	Compressive and Tensile Behavior of Polymer Treated Sulfate Contaminated CL Soil. Geotechnical and Geological Engineering, 2014, 32, 71-83.	1.7	80
3	Enhanced Solubility and Biodegradation of Naphthalene with Biosurfactant. Journal of Environmental Engineering, ASCE, 2000, 126, 629-634.	1.4	69
4	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
5	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
6	Effects of surfactants and electrolyte solutions on the properties of soil. Environmental Geology, 2006, 49, 977-989.	1.2	45
7	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
8	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
9	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
10	Factors Affecting Mechanical and Creep Properties of Silicate-Grouted Sands. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 1999, 125, 868-876.	3.0	34
11	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
12	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
13	Evaluation of Asymmetric Liposomal Nanoparticles for Encapsulation of Polynucleotides. Langmuir, 2008, 24, 8533-8540.	3.5	29
14	Effects of Surfactants on Solubilization of Perchloroethylene (PCE) and Trichloroethylene (TCE). Industrial & Engineering Chemistry Research, 2011, 50, 5831-5837.	3.7	28
15	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
16	Cyclic and Damping Properties of Silicate-Grouted Sand. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2000, 126, 650-656.	3.0	24
17	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
18	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

#	Article	IF	Citations
19	Effects of Fe nanoparticles on bacterial growth and biosurfactant production. Journal of Nanoparticle Research, 2013, 15, 1.	1.9	21
20	Laboratory Modeling of Vibroâ€Driven Piles. Journal of Geotechcnical Engineering, 1990, 116, 1190-1209.	0.4	20
21	Mechanical Behavior of Chemically Grouted Sand. Journal of Geotechcnical Engineering, 1986, 112, 869-887.	0.4	15
22	Behavior of Vibroâ€Driven Piles in Sand. Journal of Geotechcnical Engineering, 1990, 116, 1211-1230.	0.4	11
23	Solubilization and degradation of perchloroethylene (PCE) in cationic and nonionic surfactant solutions. Journal of Environmental Sciences, 2011, 23, 1240-1248.	6.1	11
24	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
25	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
26	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
27	Characterization of Y2BaCuO5 nanoparticles synthesized by nano-emulsion method. Journal of Nanoparticle Research, 2007, 9, 841-852.	1.9	5
28	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
29	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
30	Real-Time Gas Leak Detection and Quantification using Smart Cement. , 2020, , .		2
31	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
32	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
33	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
34	Nanotechnology for Various Applications: Materials, Environmental and Medical. , 2011, , 203-218.		0