John C Stormont

List of Publications by Year
in descending order

66 papers	1,166 citations	516710 16 h-index	414414 32 g-index
67 all docs	67 docs citations	67 times ranked	713 citing authors

#	Article	IF	Citations
1	Capillary Barrier Effect from Underlying Coarser Soil Layer. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 1999, 125, 641-648.	3.0	167
2	Method to Estimate Water Storage Capacity of Capillary Barriers. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 1998, 124, 297-302.	3.0	86
3	Laboratory study of gas permeability changes in rock salt during deformation. International Journal of Rock Mechanics and Mining Sciences, 1992, 29, 325-342.	0.0	83
4	The effectiveness of two capillary barriers on a 10% slope. Geotechnical and Geological Engineering, 1996, 14, 243-267.	1.7	73
5	Capillary Barriers and Subtitle D Covers: Estimating Equivalency. Journal of Environmental Engineering, ASCE, 1997, 123, 3-10.	1.4	61
6	Gas flow through cement-casing microannuli under varying stress conditions. Geomechanics for Energy and the Environment, 2018, 13, 1-13.	2.5	57
7	Parametric Study of Unsaturated Drainage Layers in a Capillary Barrier. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 1999, 125, 1057-1065.	3.0	56
8	Water Retention Functions of Four Nonwoven Polypropylene Geotextiles. Geosynthetics International, 1997, 4, 661-672.	2.9	55
9	The Effect of Constant Anisotropy on Capillary Barrier Performance. Water Resources Research, 1995, 31, 783-785.	4.2	45
10	In situ gas permeability measurements to delineate damage in rock salt. International Journal of Rock Mechanics and Minings Sciences, 1997, 34, 1055-1064.	5.8	44
11	Evaluation of numerical simulations of capillary barrier field tests. Geotechnical and Geological Engineering, 1998, 16, 201-213.	1.7	32
12	Characterization of Unsaturated Nonwoven Geotextiles. , 2000, , 153.		28
13	Simulation of geomembrane response to settlement in landfills by using the material point method. International Journal for Numerical and Analytical Methods in Geomechanics, 1999, 23, 1977-1994.	3.3	24
14	A new polymer nanocomposite repair material for restoring wellbore seal integrity. International Journal of Greenhouse Gas Control, 2017, 58, 290-298.	4.6	22
15	Characterization of wellbore microannuli. Journal of Natural Gas Science and Engineering, 2019, 62, 13-25.	4.4	21
16	Examining Epoxy-based Nanocomposites in Wellbore Seal Repair for Effective CO2 Sequestration. Energy Procedia, 2014, 63, 5798-5807.	1.8	19
17	Unsaturated Drainage Layers for Diversion of Infiltrating Water. Journal of Irrigation and Drainage Engineering - ASCE, 1997, 123, 364-366.	1.0	17
18	Impact of Unsaturated Flow on Pavement Edgedrain Performance. Journal of Transportation Engineering, 2005, 131, 46-53.	0.9	17

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19	Prediction of dilation and permeability changes in rock salt. International Journal for Numerical and Analytical Methods in Geomechanics, 1992, 16, 545-569.	3.3	16
20	The significance of nanoparticles on bond strength of polymer concrete to steel. International Journal of Adhesion and Adhesives, 2017, 74, 77-85.	2.9	16
21	Soil water balance dynamics on reclaimed mine land in the southwestern United States. Journal of Arid Environments, 2017, 136, 28-37.	2.4	16
22	Characterization of wellbore casing corrosion product as a permeable porous medium. Journal of Petroleum Science and Engineering, 2019, 180, 982-993.	4.2	14
23	Discontinuous behaviour near excavations in a bedded salt formation. International Journal of Mining and Geological Engineering, 1990, 8, 35-56.	0.1	12
24	Stability Evaluation of a Mine Waste Pile. Environmental and Engineering Geoscience, 2005, 11, 43-52.	0.9	12
25	Evaluation of Subgrade Strength and Pavement Designs for Reliability. Journal of Transportation Engineering, 2010, 136, 379-391.	0.9	12
26	Heterogeneity, pore pressure, and injectate chemistry: Control measures for geologic carbon storage. International Journal of Greenhouse Gas Control, 2018, 68, 203-215.	4.6	12
27	Geocomposite Capillary Barrier Drain System with Fiberglass Transport Layer. Transportation Research Record, 2001, 1772, 131-136.	1.9	11
28	Transmissivity of a Nonwoven Polypropylene Geotextile Under Suction. Geotechnical Testing Journal, 2001, 24, 164-171.	1.0	11
29	Micromechanical processes in consolidated granular salt. Engineering Geology, 2018, 239, 206-213.	6.3	10
30	Simulation of mixed-mode fracture using the combined finiteâ€“discrete element method. Computational Particle Mechanics, 2020, 7, 1047-1055.	3.0	10
31	Nanomodified Methyl Methacrylate Polymer for Sealing of Microscale Defects in Wellbore Systems. Journal of Materials in Civil Engineering, 2019, 31, .	2.9	9
32	Investigation of wellbore microannulus permeability under stress via experimental wellbore mock-up and finite element modeling. Computers and Geotechnics, 2017, 83, 168-177.	4.7	8
33	Conduct and interpretation of gas permeability measurements in rock salt. International Journal of Rock Mechanics and Minings Sciences, 1997, 34, 303.e1-303.e11.	5.8	6
34	Method to Estimate Water Storage Capacity of Capillary Barriers. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 1999, 125, 918-920.	3.0	6
35	Draining unsaturated soils with geosynthetics. Geosynthetics International, 2010, 17, 332-343.	2.9	6
36	Experimental study correlating damage and permeability in concrete using confined, flattened Brazilian disks. International Journal of Damage Mechanics, 0, , 105678952199872.	4.2	6

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37	An evaporation estimation model using optimized fuzzy learning from example algorithm with an application to the riparian zone of the Middle Rio Grande in New Mexico, U.S.A.. Ecological Modelling, 2007, 208, 119-128.	2.5	5
38	Thermal Properties of Consolidated Granular Salt as a Backfill Material. Rock Mechanics and Rock Engineering, 2018, 51, 911-923.	5.4	5
39	Visco-inertial gas flow through wellbore cement fractures. Journal of Natural Gas Science and Engineering, 2020, 77, 103275.	4.4	5
40	Failure in Confined Brazilian Tests on Sandstone. Applied Sciences (Switzerland), 2021, 11, 2285.	2.5	5
41	Airflow as Monitoring Technique for Landfill Liners. Journal of Environmental Engineering, ASCE, 1998, 124, 539-544.	1.4	4
42	Geosynthetic Capillary Barriers in Pavements. , 2000, , 350.		4
43	Evolution of Permeability in Sandstone During Confined Brazilian Testing. Rock Mechanics and Rock Engineering, 2022, 55, 2651-2664.	5.4	4
44	Alteration in micro-mechanical characteristics of wellbore cement fracture surfaces due to fluid exposure. Journal of Petroleum Science and Engineering, 2021, 205, 108935.	4.2	4
45	Closure to â€œCapillary Barriers and Subtitle D Covers: Estimating Equivalencyâ€•by Carl E. Morris and John C. Stormont. Journal of Environmental Engineering, ASCE, 1998, 124, 483-484.	1.4	3
46	Total Soil Water Evaporation in a Riparian Environment: Model Development and Application. Journal of Hydrologic Engineering - ASCE, 2009, 14, 904-912.	1.9	3
47	Saline Brine Reaction with Fractured Wellbore Cement and Changes in Hardness and Hydraulic Properties. Environmental Engineering Science, 2021, 38, 143-153.	1.6	3
48	Preventing Positive Pore Water Pressures with a Geocomposite Capillary Barrier Drain. , 2000, , 15-31.		3
49	Monitoring Postpeak Crack Propagation in Concrete in the Brazilian Tension Test. Journal of Materials in Civil Engineering, 2022, 34, .	2.9	3
50	Study of Rock Fracture by Permeability Method. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 1999, 125, 229-231.	3.0	2
51	Design of Dry Barriers for Containment of Contaminants in Unsaturated Soils. Ground Water Monitoring and Remediation, 1999, 19, 145-156.	0.8	2
52	Experimental investigation of the influence of pore pressure and porosity on the deformation of granular salt. International Journal of Rock Mechanics and Minings Sciences, 2018, 110, 291-305.	5.8	2
53	Use of Remote Structural Tap Testing Devices Deployed via Ground Vehicle for Health Monitoring of Transportation Infrastructure. Sensors, 2022, 22, 1458.	3.8	2
54	Crack detection using tap-testing and machine learning techniques to prevent potential rockfall incidents. Engineering Research Express, 2021, 3, 045050.	1.6	2

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55	New mathematical formulations for accurate estimate of nitrogen leakage rate using distributed temperature sensing in Mechanical Integrity Tests. Journal of Petroleum Science and Engineering, 2022, 215, 110710.	4.2	2
56	Application of Fuzzy Modeling to Estimate Soil-Water Evaporation. , 2006, , 2268.		1
57	Incorporating Near-Surface Processes in Modeling Moisture Movement in Soils. , 2000, , 529.		0
58	Evaluation of alternative cover systems using GIS. Environmental and Engineering Geoscience, 2001, 7, 343-355.	0.9	0
59	A GIS-Based Approach to Assessing Mine Waste Pile Stability. , 2006, , 1.		0
60	Estimation of Bare Soil Evaporation Using Fuzzy Modeling. , 2006, , 1.		0
61	Changes in the Soil Moisture Characteristic due to Porosity Variation. , 2006, , 1360.		0
62	Estimating Evaporative Fluxes in Dry Climates. , 2006, , 2233.		0
63	Analysis of Coal Combustion By-Product Disposal Practices in Arid Climates: Leachate Water Quality. , 2012, , .		0
64	Apparent vs. True Bond Strength of Steel and PC with Nanoalumina. Advanced Materials Research, 0, 1129, 307-314.	0.3	0
65	Microscale analysis demonstrating the significance of shear and porosity in hydrostatic compression of porous media. International Journal of Rock Mechanics and Minings Sciences, 2021, 145, 104751.	5.8	0
66	A Method to Measure the Relative Brine Release Capacity of Geologic Material. Geotechnical Testing Journal, 2011, 34, 406-412.	1.0	0