

# John C Stormont

## List of Publications by Year in descending order

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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	Evolution of Permeability in Sandstone During Confined Brazilian Testing. <i>Rock Mechanics and Rock Engineering</i> , 2022, 55, 2651-2664.	5.4	4
2	Use of Remote Structural Tap Testing Devices Deployed via Ground Vehicle for Health Monitoring of Transportation Infrastructure. <i>Sensors</i> , 2022, 22, 1458.	3.8	2
3	Monitoring Postpeak Crack Propagation in Concrete in the Brazilian Tension Test. <i>Journal of Materials in Civil Engineering</i> , 2022, 34, .	2.9	3
4	New mathematical formulations for accurate estimate of nitrogen leakage rate using distributed temperature sensing in Mechanical Integrity Tests. <i>Journal of Petroleum Science and Engineering</i> , 2022, 215, 110710.	4.2	2
5	Saline Brine Reaction with Fractured Wellbore Cement and Changes in Hardness and Hydraulic Properties. <i>Environmental Engineering Science</i> , 2021, 38, 143-153.	1.6	3
6	Failure in Confined Brazilian Tests on Sandstone. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 2285.	2.5	5
7	Microscale analysis demonstrating the significance of shear and porosity in hydrostatic compression of porous media. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2021, 145, 104751.	5.8	0
8	Alteration in micro-mechanical characteristics of wellbore cement fracture surfaces due to fluid exposure. <i>Journal of Petroleum Science and Engineering</i> , 2021, 205, 108935.	4.2	4
9	Crack detection using tap-testing and machine learning techniques to prevent potential rockfall incidents. <i>Engineering Research Express</i> , 2021, 3, 045050.	1.6	2
10	Simulation of mixed-mode fracture using the combined finiteâ€“discrete element method. <i>Computational Particle Mechanics</i> , 2020, 7, 1047-1055.	3.0	10
11	Visco-inertial gas flow through wellbore cement fractures. <i>Journal of Natural Gas Science and Engineering</i> , 2020, 77, 103275.	4.4	5
12	Characterization of wellbore casing corrosion product as a permeable porous medium. <i>Journal of Petroleum Science and Engineering</i> , 2019, 180, 982-993.	4.2	14
13	Nanomodified Methyl Methacrylate Polymer for Sealing of Microscale Defects in Wellbore Systems. <i>Journal of Materials in Civil Engineering</i> , 2019, 31, .	2.9	9
14	Characterization of wellbore microannuli. <i>Journal of Natural Gas Science and Engineering</i> , 2019, 62, 13-25.	4.4	21
15	Gas flow through cement-casing microannuli under varying stress conditions. <i>Geomechanics for Energy and the Environment</i> , 2018, 13, 1-13.	2.5	57
16	Micromechanical processes in consolidated granular salt. <i>Engineering Geology</i> , 2018, 239, 206-213.	6.3	10
17	Heterogeneity, pore pressure, and injectate chemistry: Control measures for geologic carbon storage. <i>International Journal of Greenhouse Gas Control</i> , 2018, 68, 203-215.	4.6	12
18	Thermal Properties of Consolidated Granular Salt as a Backfill Material. <i>Rock Mechanics and Rock Engineering</i> , 2018, 51, 911-923.	5.4	5

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19	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
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	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
22	A new polymer nanocomposite repair material for restoring wellbore seal integrity. International Journal of Greenhouse Gas Control, 2017, 58, 290-298.	4.6	22
23	Soil water balance dynamics on reclaimed mine land in the southwestern United States. Journal of Arid Environments, 2017, 136, 28-37.	2.4	16
24	Examining Epoxy-based Nanocomposites in Wellbore Seal Repair for Effective CO2 Sequestration. Energy Procedia, 2014, 63, 5798-5807.	1.8	19
25	Analysis of Coal Combustion By-Product Disposal Practices in Arid Climates: Leachate Water Quality. , 2012, , .		0
26	A Method to Measure the Relative Brine Release Capacity of Geologic Material. Geotechnical Testing Journal, 2011, 34, 406-412.	1.0	0
27	Draining unsaturated soils with geosynthetics. Geosynthetics International, 2010, 17, 332-343.	2.9	6
28	Evaluation of Subgrade Strength and Pavement Designs for Reliability. Journal of Transportation Engineering, 2010, 136, 379-391.	0.9	12
29	Total Soil Water Evaporation in a Riparian Environment: Model Development and Application. Journal of Hydrologic Engineering - ASCE, 2009, 14, 904-912.	1.9	3
30	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
31	A GIS-Based Approach to Assessing Mine Waste Pile Stability. , 2006, , 1.		0
32	Estimation of Bare Soil Evaporation Using Fuzzy Modeling. , 2006, , 1.		0
33	Application of Fuzzy Modeling to Estimate Soil-Water Evaporation. , 2006, , 2268.		1
34	Changes in the Soil Moisture Characteristic due to Porosity Variation. , 2006, , 1360.		0
35	Estimating Evaporative Fluxes in Dry Climates. , 2006, , 2233.		0
36	Impact of Unsaturated Flow on Pavement Edgedrain Performance. Journal of Transportation Engineering, 2005, 131, 46-53.	0.9	17

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37	Stability Evaluation of a Mine Waste Pile. Environmental and Engineering Geoscience, 2005, 11, 43-52.	0.9	12
38	Geocomposite Capillary Barrier Drain System with Fiberglass Transport Layer. Transportation Research Record, 2001, 1772, 131-136.	1.9	11
39	Evaluation of alternative cover systems using GIS. Environmental and Engineering Geoscience, 2001, 7, 343-355.	0.9	0
40	Transmissivity of a Nonwoven Polypropylene Geotextile Under Suction. Geotechnical Testing Journal, 2001, 24, 164-171.	1.0	11
41	Incorporating Near-Surface Processes in Modeling Moisture Movement in Soils. , 2000, , 529.		0
42	Characterization of Unsaturated Nonwoven Geotextiles. , 2000, , 153.		28
43	Geosynthetic Capillary Barriers in Pavements. , 2000, , 350.		4
44	Preventing Positive Pore Water Pressures with a Geocomposite Capillary Barrier Drain. , 2000, , 15-31.		3
45	Study of Rock Fracture by Permeability Method. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 1999, 125, 229-231.	3.0	2
46	Capillary Barrier Effect from Underlying Coarser Soil Layer. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 1999, 125, 641-648.	3.0	167
47	Method to Estimate Water Storage Capacity of Capillary Barriers. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 1999, 125, 918-920.	3.0	6
48	Parametric Study of Unsaturated Drainage Layers in a Capillary Barrier. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 1999, 125, 1057-1065.	3.0	56
49	Design of Dry Barriers for Containment of Contaminants in Unsaturated Soils. Ground Water Monitoring and Remediation, 1999, 19, 145-156.	0.8	2
50	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
51	Evaluation of numerical simulations of capillary barrier field tests. Geotechnical and Geological Engineering, 1998, 16, 201-213.	1.7	32
52	Airflow as Monitoring Technique for Landfill Liners. Journal of Environmental Engineering, ASCE, 1998, 124, 539-544.	1.4	4
53	Method to Estimate Water Storage Capacity of Capillary Barriers. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 1998, 124, 297-302.	3.0	86
54	Closure to "Capillary Barriers and Subtitle D Covers: Estimating Equivalency" by Carl E. Morris and John C. Stormont. Journal of Environmental Engineering, ASCE, 1998, 124, 483-484.	1.4	3

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55	Capillary Barriers and Subtitle D Covers: Estimating Equivalency. Journal of Environmental Engineering, ASCE, 1997, 123, 3-10.	1.4	61
56	Unsaturated Drainage Layers for Diversion of Infiltrating Water. Journal of Irrigation and Drainage Engineering - ASCE, 1997, 123, 364-366.	1.0	17
57	Water Retention Functions of Four Nonwoven Polypropylene Geotextiles. Geosynthetics International, 1997, 4, 661-672.	2.9	55
58	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
59	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
60	The effectiveness of two capillary barriers on a 10% slope. Geotechnical and Geological Engineering, 1996, 14, 243-267.	1.7	73
61	The Effect of Constant Anisotropy on Capillary Barrier Performance. Water Resources Research, 1995, 31, 783-785.	4.2	45
62	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
63	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
64	Discontinuous behaviour near excavations in a bedded salt formation. International Journal of Mining and Geological Engineering, 1990, 8, 35-56.	0.1	12
65	Apparent vs. True Bond Strength of Steel and PC with Nanoalumina. Advanced Materials Research, 0, 1129, 307-314.	0.3	0
66	Experimental study correlating damage and permeability in concrete using confined, flattened Brazilian disks. International Journal of Damage Mechanics, 0, , 105678952199872.	4.2	6