Mark S Diederichs

List of Publications by Year
in descending order

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20 papers	1,107 citations	623188 14 h-index	713013 21 g-index
22 all docs	22 docs citations	22 times ranked	949 citing authors

#	Article	IF	Citations
1	New Data Processing Protocols to Isolate Fracture Deformations to Measure Normal and Shear Joint Stiffness. Rock Mechanics and Rock Engineering, 2022, 55, 2631-2650.	2.6	6
2	Enhancement of constant normal stiffness direct shear testing protocols for determining geomechanical properties of fractures. Canadian Geotechnical Journal, 2022, 59, 1643-1659.	1.4	2
3	Time-Dependent Model for Brittle Rocks Considering the Long-Term Strength Determined from Lab Data. Mining, 2022, 2, 463-486.	1.1	2
4	Estimating the long-term strength and time-to-failure of brittle rocks from laboratory testing. International Journal of Rock Mechanics and Minings Sciences, 2021, 147, 104900.	2.6	17
5	An in situ monitoring campaign of a hard rock pillar at great depth within a Canadian mine. Journal of Rock Mechanics and Geotechnical Engineering, 2020, 12, 427-448.	3.7	17
6	Augmenting the in-situ rock bolt pull test with distributed optical fiber strain sensing. International Journal of Rock Mechanics and Minings Sciences, 2020, 126, 104202.	2.6	14
7	Consistency Index and Its Correlation with EPB Excavation of Mixed Clayâ€“Sand Soils. Geotechnical and Geological Engineering, 2019, 37, 327-345.	0.8	10
8	Clogging and flow assessment of cohesive soils for EPB tunnelling: Proposed laboratory tests for soil characterisation. Tunnelling and Underground Space Technology, 2019, 94, 103110.	3.0	22
9	Composite Geological Strength Index Approach with Application to Hydrothermal Vein Networks and Other Intrablock Structures in Complex Rockmasses. Geotechnical and Geological Engineering, 2019, 37, 5285-5314.	0.8	17
10	Time-Dependent Behaviour of Brittle Rocks Based on Static Load Laboratory Tests. Geotechnical and Geological Engineering, 2018, 36, 337-376.	0.8	38
11	Tunnel support for stress induced failures in Hawkesbury Sandstone. Tunnelling and Underground Space Technology, 2017, 64, 10-23.	3.0	34
12	A new optical sensing technique for monitoring shear of rock bolts. Tunnelling and Underground Space Technology, 2017, 66, 34-46.	3.0	28
13	New direct shear testing protocols and analyses for fractures and healed intrablock rockmass discontinuities. Engineering Geology, 2017, 229, 53-72.	2.9	25
14	The three stages of stress relaxation - Observations for the time-dependent behaviour of brittle rocks based on laboratory testing. Engineering Geology, 2017, 216, 56-75.	2.9	58
15	The influence of constitutive model selection on predicted stresses and yield in deep mine pillars - A case study at the Creighton mine, Sudbury, Canada. Geomechanik Und Tunnelbau, 2015, 8, 441-449.	0.2	9
16	Optimization of structural contact stiffness and strength for discrete simulation of progressive failure of healed structure. Geomechanik Und Tunnelbau, 2015, 8, 414-420.	0.2	3
17	Dilation and Post-peak Behaviour Inputs for Practical Engineering Analysis. Geotechnical and Geological Engineering, 2015, 33, 15-34.	0.8	21
18	A Review of the Tensile Strength of Rock: Concepts and Testing. Geotechnical and Geological Engineering, 2014, 32, 525-546.	0.8	321

#	Article	IF	Citations
19	The 2003 Canadian Geotechnical Colloquium: Mechanistic interpretation and practical application of damage and spalling prediction criteria for deep tunnelling. Canadian Geotechnical Journal, 2007, 44, 1082-1116.	1.4	433
20	An Illustrative Study of the Potential Sensitivity, of Predicted Long-Term EDZ Development, to Internal Fabric of Argillaceous Limestone. Rock Mechanics and Rock Engineering, 0, , 1.	2.6	0