

# Mark S Diederichs

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3319961/publications.pdf>

Version: 2024-02-01

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	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
2	A Review of the Tensile Strength of Rock: Concepts and Testing. Geotechnical and Geological Engineering, 2014, 32, 525-546.	0.8	321
3	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
4	Time-Dependent Behaviour of Brittle Rocks Based on Static Load Laboratory Tests. Geotechnical and Geological Engineering, 2018, 36, 337-376.	0.8	38
5	Tunnel support for stress induced failures in Hawkesbury Sandstone. Tunnelling and Underground Space Technology, 2017, 64, 10-23.	3.0	34
6	A new optical sensing technique for monitoring shear of rock bolts. Tunnelling and Underground Space Technology, 2017, 66, 34-46.	3.0	28
7	New direct shear testing protocols and analyses for fractures and healed intrablock rockmass discontinuities. Engineering Geology, 2017, 229, 53-72.	2.9	25
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	Dilation and Post-peak Behaviour Inputs for Practical Engineering Analysis. Geotechnical and Geological Engineering, 2015, 33, 15-34.	0.8	21
10	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
11	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
12	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
13	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
14	Consistency Index and Its Correlation with EPB Excavation of Mixed Clay-Sand Soils. Geotechnical and Geological Engineering, 2019, 37, 327-345.	0.8	10
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	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
17	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
18	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

#	ARTICLE	IF	CITATIONS
19	Time-Dependent Model for Brittle Rocks Considering the Long-Term Strength Determined from Lab Data. <i>Mining</i> , 2022, 2, 463-486.	1.1	2
20	An Illustrative Study of the Potential Sensitivity, of Predicted Long-Term EDZ Development, to Internal Fabric of Argillaceous Limestone. <i>Rock Mechanics and Rock Engineering</i> , 0, , 1.	2.6	0