Fredrik Johansson

List of Publications by Year
in descending order

31	604	687363 13	610901 24
papers	citations	h-index	g-index

33	33	33	493
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Landslide susceptibility hazard map in southwest Sweden using artificial neural network. Catena, 2019, 183, 104225.	5.0	108
2	A conceptual model for the peak shear strength of fresh and unweathered rock joints. International Journal of Rock Mechanics and Minings Sciences, 2014, 69, 31-38.	5.8	54
3	Shear Strength of Partially Bonded Concreteâ€“Rock Interfaces for Application in Dam Stability Analyses. Rock Mechanics and Rock Engineering, 2016, 49, 2711-2722.	5.4	54
4	Influence of scale and matedness on the peak shear strength of fresh, unweathered rock joints. International Journal of Rock Mechanics and Minings Sciences, 2016, 82, 36-47.	5.8	49
5	When is the observational method in geotechnical engineering favourable?. Structural Safety, 2017, 66, 17-26.	5.3	46
6	Effects of spatial variation in cohesion over the concrete-rock interface on dam sliding stability. Journal of Rock Mechanics and Geotechnical Engineering, 2015, 7, 659-667.	8.1	38
7	Updated relations for the uniaxial compressive strength of marlstones based on P-wave velocity and point load index test. Innovative Infrastructure Solutions, 2016, 1, 1.	2.2	33
8	Reliability aspects of rock tunnel design with the observational method. International Journal of Rock Mechanics and Minings Sciences, 2017, 98, 102-110.	5.8	31
9	System Reliability of Concrete Dams with Respect to Foundation Stability: Application to a Spillway. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2013, 139, 308-319.	3.0	30
10	Probability distributions of shotcrete parameters for reliability-based analyses of rock tunnel support. Tunnelling and Underground Space Technology, 2019, 87, 15-26.	6.2	26
11	Prediction of Peak Shear Strength of Natural, Unfilled Rock Joints Accounting for Matedness Based on Measured Aperture. Rock Mechanics and Rock Engineering, 2021, 54, 1533-1550.	5.4	26
12	Influence of location of large-scale asperity on shear strength of concrete-rock interface under eccentric load. Journal of Rock Mechanics and Geotechnical Engineering, 2020, 12, 449-460.	8.1	18
13	Principles of Risk-Based Rock Engineering Design. Rock Mechanics and Rock Engineering, 2020, 53, 1129-1143.	5.4	16
14	Using Observational Method to Manage Safety Aspects of Remedial Grouting of Concrete Dam Foundations. Geotechnical and Geological Engineering, 2016, 34, 1613-1630.	1.7	12
15	On the Need for a Risk-Based Framework in Eurocode 7 to Facilitate Design of Underground Openings in Rock. Rock Mechanics and Rock Engineering, 2018, 51, 2427-2431.	5.4	8
16	On the use of pore pressure measurements in safety reassessments of concrete dams founded on rock. Georisk, 2014, 8, 117-128.	3.5	7
17	Influence of Cohesive Strength in Probabilistic Sliding Stability Reassessment of Concrete Dams. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2017, 143, .	3.0	7
18	Influence of large-scale asperities on the shear strength of concrete-rock interface of small buttress dams. Engineering Structures, 2021, 245, 112952.	5.3	7

#	Article	IF	Citations
19	Influence of spatially varying thickness on load-bearing capacity of shotcrete. Tunnelling and Underground Space Technology, 2020, 98, 103336.	6.2	5
20	Peak Shear Strength of Natural, Unfilled Rock Joints in the Field Based on Data from Drill Cores â€“ A Conceptual Study Based on Large Laboratory Shear Tests. Rock Mechanics and Rock Engineering, 2022, 55, 5083-5106.	5.4	5
21	Challenges in Applying Fixed Partial Factors to Rock Engineering Design. , 2017, , .		4
22	Measurement of ice pressure on a concrete dam with a prototype ice load panel. Cold Regions Science and Technology, 2020, 170, 102923.	3.5	4
23	Experimental program on mechanical properties of large rock fractures. IOP Conference Series: Earth and Environmental Science, 2021, 833, 012015.	0.3	3
24	Advances, current limitations and future requirements for a numerical shear box for rock joints using PFC2D. , 2014, , 763-768.		3
25	Numerical modelling of incipient motion of fracture infillings. International Journal of Rock Mechanics and Minings Sciences, 2021, 148, 104960.	5.8	3
26	Implementing the Extended Multivariate Approach in Design with Partial Factors for a Retaining Wall in Clay. ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part A: Civil Engineering, 2017, 3, .	1.7	2
27	Implementation of reliability-based thresholds to excavation of shotcrete-supported rock tunnels. Georisk, 2023, 17, 361-375.	3.5	2
28	The importance of accounting for matedness when predicting the peak shear strength of rock joints. IOP Conference Series: Earth and Environmental Science, 2021, 833, 012017.	0.3	1
29	Application of Low-Frequency Rectangular Pressure Impulse in Rock Grouting. , 2017, , .		0
30	System for concrete dam reliability with respect to foundation stability. , 2011, , 87-92.		0
31	Design Methodology for Grout Curtains Under Dams Founded on Rock. Geotechnical and Geological Engineering, 0, , 1.	1.7	0