

John P Harrison

List of Publications by Year in descending order

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45
papers

1,294
citations

430442

18
h-index

360668

35
g-index

50
all docs

50
docs citations

50
times ranked

974
citing authors

#	ARTICLE	IF	CITATIONS
1	Development of a local degradation approach to the modelling of brittle fracture in heterogeneous rocks. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2002, 39, 443-457.	2.6	165
2	A clustered overlapping sphere algorithm to represent real particles in discrete element modelling. <i>Geotechnique</i> , 2009, 59, 779-784.	2.2	122
3	Application of a local degradation model to the analysis of brittle fracture of laboratory scale rock specimens under triaxial conditions. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2002, 39, 459-476.	2.6	111
4	A semi-automated methodology for discontinuity trace detection in digital images of rock mass exposures. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2000, 37, 1073-1089.	2.6	95
5	A review of the state of the art in modelling progressive mechanical breakdown and associated fluid flow in intact heterogeneous rocks. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2006, 43, 1001-1022.	2.6	76
6	A mechanical degradation index for rock. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2001, 38, 1193-1199.	2.6	66
7	Triaxial strength and deformability of intact and increasingly jointed granite samples. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2017, 95, 87-103.	2.6	60
8	Development of a hydro-mechanical local degradation approach and its application to modelling fluid flow during progressive fracturing of heterogeneous rocks. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2005, 42, 961-984.	2.6	58
9	An empirical dilatancy index for the dilatant deformation of rock. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2004, 41, 679-686.	2.6	50
10	Assessment of rock fracture surface roughness using Riemannian statistics of linear profiles. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2010, 47, 940-948.	2.6	35
11	Multivariate distribution model for stress variability characterisation. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2018, 102, 144-154.	2.6	32
12	Hierarchical Bayesian modelling of geotechnical data: application to rock strength. <i>Geotechnique</i> , 2019, 69, 1056-1070.	2.2	32
13	Comprehensive statistical analysis of intact rock strength for reliability-based design. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2018, 106, 374-387.	2.6	30
14	Generation of random stress tensors. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2017, 94, 18-26.	2.6	26
15	Selection of the threshold value in RQD assessments. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 1999, 36, 673-685.	2.6	25
16	Mean and dispersion of stress tensors using Euclidean and Riemannian approaches. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2016, 85, 165-173.	2.6	23
17	Rock mass properties for engineering design. <i>Quarterly Journal of Engineering Geology and Hydrogeology</i> , 2003, 36, 5-16.	0.8	19
18	Geoarchaeological and Environmental Work at the Sacred Animal Necropolis, North Saqqara, Egypt. <i>Studia Quaternaria</i> , 2013, 30, 83-89.	0.8	19

#	ARTICLE	IF	CITATIONS
19	Empirical parameters for non-linear fracture stiffness from numerical experiments of fracture closure. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2001, 38, 721-727.	2.6	17
20	Incorporating Parameter Variability in Rock Mechanics Analyses: Fuzzy Mathematics Applied to Underground Rock Spalling. <i>Rock Mechanics and Rock Engineering</i> , 2010, 43, 219-224.	2.6	17
21	Scalar-valued measures of stress dispersion. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2018, 106, 234-242.	2.6	17
22	Reliability-based design in rock engineering: Application of Bayesian regression methods to rock strength data. <i>Journal of Rock Mechanics and Geotechnical Engineering</i> , 2019, 11, 612-627.	3.7	17
23	Rock Engineering Design in Frozen and Thawing Rock: Current Approaches and Future Directions. <i>Procedia Engineering</i> , 2017, 191, 656-665.	1.2	12
24	Uncertainty in In Situ Stress Estimations: A Statistical Simulation to Study the Effect of Numbers of Stress Measurements. <i>Rock Mechanics and Rock Engineering</i> , 2019, 52, 5071-5084.	2.6	12
25	A Bayesian Approach for Uncertainty Quantification in Overcoring Stress Estimation. <i>Rock Mechanics and Rock Engineering</i> , 2021, 54, 627-645.	2.6	10
26	Examination of Mean Stress Calculation Approaches in Rock Mechanics. <i>Rock Mechanics and Rock Engineering</i> , 2019, 52, 83-95.	2.6	9
27	Numerical analysis of gas-bubble flow in water-filled natural fractures. <i>Computers and Geotechnics</i> , 1999, 24, 3-28.	2.3	8
28	Effect of Small Numbers of Test Results on Accuracy of Hoek's Brown Strength Parameter Estimations: A Statistical Simulation Study. <i>Rock Mechanics and Rock Engineering</i> , 2017, 50, 3293-3305.	2.6	8
29	Bayesian analysis for uncertainty quantification of in situ stress data. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2020, 134, 104381.	2.6	8
30	Silicone rubber castings for aperture measurement of rock fractures. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2003, 40, 939-945.	2.6	7
31	Numerical modelling of progressive damage and associated fluid flow using a hydro-mechanical local degradation approach. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2004, 41, 317-322.	2.6	6
32	Investigating the Relationship Between Far-Field Stress and Local Values of the Stress Tensor. <i>Procedia Engineering</i> , 2017, 191, 536-542.	1.2	6
33	Re-examination of the In Situ Stress Measurements on the 240 Level of the AECL's URL Using Tensor-Based Approaches. <i>Rock Mechanics and Rock Engineering</i> , 2018, 51, 3179-3188.	2.6	5
34	Heteroscedasticity of axial strength of transversely anisotropic rock. <i>Geotechnique Letters</i> , 2014, 4, 322-329.	0.6	4
35	Characteristic triaxial strength of intact rock for LSD. <i>Proceedings of the Institution of Civil Engineers: Geotechnical Engineering</i> , 2016, 169, 291-298.	0.9	4
36	Anisotropy and inhomogeneity. , 1997, , 163-172.		3

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37	Automated tracing of rock mass discontinuities from digital images. International Journal of Rock Mechanics and Minings Sciences, 1997, 34, 256.e1-256.e19.	2.6	3
38	A comparison of linear profiling and an in-plane method for the analysis of rock surface geometry. International Journal of Rock Mechanics and Minings Sciences, 2004, 41, 133-138.	2.6	3
39	Digital Reconstruction of Fragmented Archaeological Objects. Studies in Conservation, 2007, 52, 19-36.	0.6	3
40	Contributions to Geotechnique 1948-2008: Engineering geology, rock mechanics and rock engineering. Geotechnique, 2008, 58, 449-455.	2.2	3
41	Calibrated Partial Factors for Support of Wedges Exposed in Tunnels. Procedia Engineering, 2017, 191, 802-810.	1.2	3
42	The Equivalence of Three Shear-Normal Stress Forms of the Hoek-Brown Criterion. Rock Mechanics and Rock Engineering, 2019, 52, 3501-3507.	2.6	3
43	Digital reconstruction of fragmented artefacts: Improved methods for data capture. The Conservator, 2003, 27, 81-94.	0.2	1
44	A postscript program for the production of equal angle equatorial hemispherical and spherical projection nets. International Journal of Rock Mechanics and Mining Sciences, 1995, 32, 143-147.	0.3	0
45	Integrating rock mechanics and structural geology in rock engineering. IOP Conference Series: Earth and Environmental Science, 2021, 833, 012001.	0.2	0