John P Harrison

List of Publications by Year
in descending order

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	A Bayesian Approach for Uncertainty Quantification in Overcoring Stress Estimation. Rock Mechanics and Rock Engineering, 2021, 54, 627-645.	2.6	10
2	Integrating rock mechanics and structural geology in rock engineering. IOP Conference Series: Earth and Environmental Science, 2021, 833, 012001.	0.2	0
3	Bayesian analysis for uncertainty quantification of in situ stress data. International Journal of Rock Mechanics and Minings Sciences, 2020, 134, 104381.	2.6	8
4	Uncertainty in In Situ Stress Estimations: A Statistical Simulation to Study the Effect of Numbers of Stress Measurements. Rock Mechanics and Rock Engineering, 2019, 52, 5071-5084.	2.6	12
5	Reliability-based design in rock engineering: Application of Bayesian regression methods to rock strength data. Journal of Rock Mechanics and Geotechnical Engineering, 2019, 11, 612-627.	3.7	17
6	The Equivalence of Three Shearâ€“Normal Stress Forms of the Hoekâ€“Brown Criterion. Rock Mechanics and Rock Engineering, 2019, 52, 3501-3507.	2.6	3
7	Examination of Mean Stress Calculation Approaches in Rock Mechanics. Rock Mechanics and Rock Engineering, 2019, 52, 83-95.	2.6	9
8	Hierarchical Bayesian modelling of geotechnical data: application to rock strength. Geotechnique, 2019, 69, 1056-1070.	2.2	32
9	Multivariate distribution model for stress variability characterisation. International Journal of Rock Mechanics and Minings Sciences, 2018, 102, 144-154.	2.6	32
10	Scalar-valued measures of stress dispersion. International Journal of Rock Mechanics and Minings Sciences, 2018, 106, 234-242.	2.6	17
11	Re-examination of the In Situ Stress Measurements on the 240 Level of the AECLâ€™s URL Using Tensor-Based Approaches. Rock Mechanics and Rock Engineering, 2018, 51, 3179-3188.	2.6	5
12	Comprehensive statistical analysis of intact rock strength for reliability-based design. International Journal of Rock Mechanics and Minings Sciences, 2018, 106, 374-387.	2.6	30
13	Generation of random stress tensors. International Journal of Rock Mechanics and Minings Sciences, 2017, 94, 18-26.	2.6	26
14	Triaxial strength and deformability of intact and increasingly jointed granite samples. International Journal of Rock Mechanics and Minings Sciences, 2017, 95, 87-103.	2.6	60
15	Investigating the Relationship Between Far-Field Stress and Local Values of the Stress Tensor. Procedia Engineering, 2017, 191, 536-542.	1.2	6
16	Rock Engineering Design in Frozen and Thawing Rock: Current Approaches and Future Directions. Procedia Engineering, 2017, 191, 656-665.	1.2	12
17	Effect of Small Numbers of Test Results on Accuracy of Hoekâ€“Brown Strength Parameter Estimations: A Statistical Simulation Study. Rock Mechanics and Rock Engineering, 2017, 50, 3293-3305.	2.6	8
18	Calibrated Partial Factors for Support of Wedges Exposed in Tunnels. Procedia Engineering, 2017, 191, 802-810.	1.2	3

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19	Characteristic triaxial strength of intact rock for LSD. Proceedings of the Institution of Civil Engineers: Geotechnical Engineering, 2016, 169, 291-298.	0.9	4
20	Mean and dispersion of stress tensors using Euclidean and Riemannian approaches. International Journal of Rock Mechanics and Minings Sciences, 2016, 85, 165-173.	2.6	23
21	Heteroscedasticity of axial strength of transversely anisotropic rock. Geotechnique Letters, 2014, 4, 322-329.	0.6	4
22	Geoarchaeological and Environmental Work at the Sacred Animal Necropolis, North Saqqara, Egypt. Studia Quaternaria, 2013, 30, 83-89.	0.8	19
23	Incorporating Parameter Variability in Rock Mechanics Analyses: Fuzzy Mathematics Applied to Underground Rock Spalling. Rock Mechanics and Rock Engineering, 2010, 43, 219-224.	2.6	17
24	Assessment of rock fracture surface roughness using Riemannian statistics of linear profiles. International Journal of Rock Mechanics and Minings Sciences, 2010, 47, 940-948.	2.6	35
25	A clustered overlapping sphere algorithm to represent real particles in discrete element modelling. Geotechnique, 2009, 59, 779-784.	2.2	122
26	Contributions toGÃ©otechnique1948â€“2008: Engineering geology, rock mechanics and rock engineering. Geotechnique, 2008, 58, 449-455.	2.2	3
27	Digital Reconstruction of Fragmented Archaeological Objects. Studies in Conservation, 2007, 52, 19-36.	0.6	3
28	A review of the state of the art in modelling progressive mechanical breakdown and associated fluid flow in intact heterogeneous rocks. International Journal of Rock Mechanics and Minings Sciences, 2006, 43, 1001-1022.	2.6	76
29	Development of a hydro-mechanical local degradation approach and its application to modelling fluid flow during progressive fracturing of heterogeneous rocks. International Journal of Rock Mechanics and Minings Sciences, 2005, 42, 961-984.	2.6	58
30	Numerical modelling of progressive damage and associated fluid flow using a hydro-mechanical local degradation approach. International Journal of Rock Mechanics and Minings Sciences, 2004, 41, 317-322.	2.6	6
31	An empirical dilatancy index for the dilatant deformation of rock. International Journal of Rock Mechanics and Minings Sciences, 2004, 41, 679-686.	2.6	50
32	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
33	Silicone rubber castings for aperture measurement of rock fractures. International Journal of Rock Mechanics and Minings Sciences, 2003, 40, 939-945.	2.6	7
34	Digital reconstruction of fragmented artefacts: Improved methods for data capture. The Conservator, 2003, 27, 81-94.	0.2	1
35	Rock mass properties for engineering design. Quarterly Journal of Engineering Geology and Hydrogeology, 2003, 36, 5-16.	0.8	19
36	Development of a local degradation approach to the modelling of brittle fracture in heterogeneous rocks. International Journal of Rock Mechanics and Minings Sciences, 2002, 39, 443-457.	2.6	165

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37	Application of a local degradation model to the analysis of brittle fracture of laboratory scale rock specimens under triaxial conditions. International Journal of Rock Mechanics and Minings Sciences, 2002, 39, 459-476.	2.6	111
38	Empirical parameters for non-linear fracture stiffness from numerical experiments of fracture closure. International Journal of Rock Mechanics and Minings Sciences, 2001, 38, 721-727.	2.6	17
39	A mechanical degradation index for rock. International Journal of Rock Mechanics and Minings Sciences, 2001, 38, 1193-1199.	2.6	66
40	A semi-automated methodology for discontinuity trace detection in digital images of rock mass exposures. International Journal of Rock Mechanics and Minings Sciences, 2000, 37, 1073-1089.	2.6	95
41	Numerical analysis of gas-bubble flow in water-filled natural fractures. Computers and Geotechnics, 1999, 24, 3-28.	2.3	8
42	Selection of the threshold value in RQD assessments. International Journal of Rock Mechanics and Minings Sciences, 1999, 36, 673-685.	2.6	25
43	Anisotropy and inhomogeneity. , 1997, , 163-172.		3
44	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
45	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