

Xiaoping Zhou

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	The Effects of Crack Openings on Crack Initiation, Propagation and Coalescence Behavior in Rock-Like Materials Under Uniaxial Compression. <i>Rock Mechanics and Rock Engineering</i> , 2016, 49, 3481-3494.	5.4	128
2	A coupled thermo-mechanical bond-based peridynamics for simulating thermal cracking in rocks. <i>International Journal of Fracture</i> , 2018, 211, 13-42.	2.2	84
3	Numerical simulation of initiation, propagation and coalescence of cracks using the non-ordinary state-based peridynamics. <i>International Journal of Fracture</i> , 2016, 201, 213-234.	2.2	65
4	Failure Behaviors and Rock Deformation During Excavation of Underground Cavern Group for Jinping I Hydropower Station. <i>Rock Mechanics and Rock Engineering</i> , 2018, 51, 2639-2651.	5.4	62
5	Analysis on the Rockâ€Cutter Interaction Mechanism During the TBM Tunneling Process. <i>Rock Mechanics and Rock Engineering</i> , 2016, 49, 1073-1090.	5.4	52
6	Damage analysis of sandstone during the creep stage under the different levels of uniaxial stress using NMR measurements. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2021, 44, 719-732.	3.4	34
7	Understanding the fracture mechanism of ring Brazilian disc specimens by the phase field method. <i>International Journal of Fracture</i> , 2020, 226, 17-43.	2.2	31
8	Effects of the Loading and Unloading Conditions on the Stress Relaxation Behavior of Pre-cracked Granite. <i>Rock Mechanics and Rock Engineering</i> , 2017, 50, 1157-1169.	5.4	28
9	Dynamic splitting tensile properties of concrete and cement mortar. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2020, 43, 757-770.	3.4	27
10	A novel displacement-based rigorous limit equilibrium method for three-dimensional landslide stability analysis. <i>Canadian Geotechnical Journal</i> , 2015, 52, 2055-2066.	2.8	21
11	Smoothed peridynamics for the extremely large deformation and cracking problems: Unification of peridynamics and smoothed particle hydrodynamics. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2021, 44, 2444-2461.	3.4	21
12	Macro-mesoscopic Fracture and Strength Character of Pre-cracked Granite Under Stress Relaxation Condition. <i>Rock Mechanics and Rock Engineering</i> , 2018, 51, 1401-1412.	5.4	20
13	Experimental Study of Stickâ€Slip Failure Processes and Effect of Physical Properties on Stickâ€Slip Behavior. <i>Journal of Geophysical Research: Solid Earth</i> , 2018, 123, 653-673.	3.4	18
14	Cracking behaviours of rockâ€like materials containing three preexisting flaws after highâ€temperature treatments. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2021, 44, 622-635.	3.4	16
15	Experimental investigation of the effects of loading rate, contact roughness, and normal stress on the stick-slip behavior of faults. <i>Tectonophysics</i> , 2021, 816, 229027.	2.2	16
16	Simulation of cracking behaviours in interlayered rocks with flaws subjected to tension using a phaseâ€field method. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2019, 42, 1679-1698.	3.4	15
17	Multidimensional Space Method for Geometrically Nonlinear Problems under Total Lagrangian Formulation Based on the Extended Finite-Element Method. <i>Journal of Engineering Mechanics - ASCE</i> , 2017, 143, .	2.9	11
18	Fracture analysis of rock reconstruction models based on coolingâ€solidification annealing algorithms. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2021, 44, 2503-2523.	3.4	8

#	ARTICLE	IF	CITATIONS
19	Field-Enriched Finite-Element Method for Simulating Crack Propagation and Coalescence in Geomaterials. <i>Journal of Engineering Mechanics - ASCE</i> , 2021, 147, .	2.9	8
20	The Constitutive Relation of Crack-Weakened Rock Masses under Axial-Dimensional Unloading. <i>Acta Mechanica Solida Sinica</i> , 2008, 21, 221-231.	1.9	7
21	The uncertainty importance measure of slope stability based on the moment-independent method. <i>Stochastic Environmental Research and Risk Assessment</i> , 2020, 34, 51-65.	4.0	7
22	Inverse-square-root-acceleration method for predicting the failure time of landslides. <i>Science China Technological Sciences</i> , 2021, 64, 1127-1136.	4.0	7
23	Stick-slip failure in heterogeneous sheared fault with a variety of fault roughness. <i>Physics of the Earth and Planetary Interiors</i> , 2020, 309, 106587.	1.9	6
24	DQNN: Pore-scale variables-based digital permeability assessment of carbonates using quantum mechanism-based machine-learning. <i>Science China Technological Sciences</i> , 2022, 65, 458-469.	4.0	6
25	The peridynamic Drucker-Prager plastic model with fractional order derivative for the numerical simulation of tunnel excavation. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2022, 46, 1620-1659.	3.3	6
26	Digital microstructure insights to phase evolution and thermal flow properties of hydrates by X-ray computed tomography. <i>Science China Technological Sciences</i> , 2021, 64, 187-202.	4.0	4
27	Determination of the Critical Slip Surface of Slope Based on the Improved Quantum Genetic Algorithm and Random Forest. <i>KSCE Journal of Civil Engineering</i> , 2022, 26, 2126-2138.	1.9	3
28	The global sensitivity analysis of slope stability based on the least angle regression. <i>Natural Hazards</i> , 2021, 105, 2361-2379.	3.4	2
29	Reliability Analysis of Seismic Slope Stability with Uncertain Probability Distributions. <i>International Journal of Geomechanics</i> , 2021, 21, 04021086.	2.7	2
30	The micromechanics-based rate-dependent constitutive model of flawed rocks at intermediate strain rate. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 0, , .	3.4	2
31	An innovative micromechanics-based three-dimensional long-term strength criterion for fracture assessment of rock materials. <i>Frattura Ed Integrita Strutturale</i> , 2018, 12, 64-81.	0.9	0