

# Xiaoping Zhou

## List of Publications by Year in descending order

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Version: 2024-02-01

31  
papers

717  
citations

623734

14  
h-index

552781

26  
g-index

32  
all docs

32  
docs citations

32  
times ranked

539  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | 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         |
| 2  | 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         |
| 3  | 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         |
| 4  | 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         |
| 5  | The global sensitivity analysis of slope stability based on the least angle regression. <i>Natural Hazards</i> , 2021, 105, 2361-2379.   | 3.4 | 2         |
| 6  | Cracking behaviours of rock-like materials containing three preexisting flaws after high-temperature treatments. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2021, 44, 622-635.                                    | 3.4 | 16        |
| 7  | 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        |
| 8  | 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         |
| 9  | 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        |
| 10 | Reliability Analysis of Seismic Slope Stability with Uncertain Probability Distributions. <i>International Journal of Geomechanics</i> , 2021, 21, 04021086.   | 2.7 | 2         |
| 11 | Fracture analysis of rock reconstruction models based on cooling-solidification annealing algorithms. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2021, 44, 2503-2523.   | 3.4 | 8         |
| 12 | 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         |
| 13 | 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        |
| 14 | 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        |
| 15 | 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         |
| 16 | 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         |
| 17 | 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        |
| 18 | Simulation of cracking behaviours in interlayered rocks with flaws subjected to tension using a phase-field method. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2019, 42, 1679-1698.                               | 3.4 | 15        |

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|----|--|-----|-----------|
| 19 | 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        |
| 20 | 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        |
| 21 | Experimental Study of Stick-Slip Failure Processes and Effect of Physical Properties on Stick-Slip Behavior. <i>Journal of Geophysical Research: Solid Earth</i> , 2018, 123, 653-673.                           | 3.4 | 18        |
| 22 | 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        |
| 23 | 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         |
| 24 | 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        |
| 25 | 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        |
| 26 | 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       |
| 27 | 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        |
| 28 | Analysis on the Rock-Cutter Interaction Mechanism During the TBM Tunneling Process. <i>Rock Mechanics and Rock Engineering</i> , 2016, 49, 1073-1090.  | 5.4 | 52        |
| 29 | 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        |
| 30 | 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         |
| 31 | 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         |