

# Chengzhi Qi

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7753679/publications.pdf>

Version: 2024-02-01

41  
papers

355  
citations

933447

10  
h-index

888059

17  
g-index

42  
all docs

42  
docs citations

42  
times ranked

283  
citing authors

#	ARTICLE	IF	CITATIONS
1	Bending behaviors of the in-plane bidirectional functionally graded piezoelectric material plates. <i>Mechanics of Advanced Materials and Structures</i> , 2022, 29, 1925-1945.	2.6	9
2	Spatial-Temporal Heterogeneity in the Deformation and Damage of Rock Samples: Experimental Study Using Digital Image Correlation Analysis. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 1364.	2.5	2
3	Mathematical Modeling of Hydraulic Fracture Formation and Cleaning Processes. <i>Energies</i> , 2022, 15, 1967.	3.1	3
4	A micro–macro model of pore pressure effect on shear fracture in brittle rocks under compression. <i>Archive of Applied Mechanics</i> , 2022, 92, 1157-1165.	2.2	2
5	Performance of the Generalized- $\hat{\Gamma}$ ( $G-\hat{\Gamma}$ ) Algorithm for Discontinuous Dynamics by the Numerical Manifold Method. <i>Coatings</i> , 2022, 12, 511.	2.6	0
6	Colloid Migration as a Reason for Porous Sandstone Permeability Degradation during Coreflooding. <i>Energies</i> , 2022, 15, 2845.	3.1	9
7	On the nature of energy-horizon and determination of length scales in dynamic fragmentation of rocks. <i>International Journal of Impact Engineering</i> , 2022, 166, 104242.	5.0	1
8	Predicting Time-to-Failure of Red Sandstone by Temporal Precursor of Acoustic Emission Signals. <i>Geofluids</i> , 2022, 2022, 1-11.	0.7	0
9	An Analytical Microcrack-Based Rock Model with Implications for Earthquake Mechanisms Induced by Stress Changes. <i>Mathematical Geosciences</i> , 2021, 53, 689-710.	2.4	0
10	Free vibration analysis of functionally graded magneto-electro-elastic plates with in-plane material heterogeneity. <i>Journal of Intelligent Material Systems and Structures</i> , 2021, 32, 1234-1255.	2.5	5
11	Study on the Fracture Process Zone near the Mode I Dynamic Crack Tip. <i>Mathematical Problems in Engineering</i> , 2021, 2021, 1-9.	1.1	0
12	Reply to the Discussion by Yingchun Li on “A Peak Dilation Angle Model Considering the Real Contact Area for Rock Joints”. <i>Rock Mechanics and Rock Engineering</i> , 2021, 54, 5969-5972.	5.4	4
13	A micro-macro confined compressive fatigue creep failure model in brittle solids. <i>International Journal of Fatigue</i> , 2020, 130, 105278.	5.7	23
14	Crack velocity- and strain rate- dependent dynamic compressive responses in brittle solids. <i>Theoretical and Applied Fracture Mechanics</i> , 2020, 105, 102420.	4.7	11
15	An analytical micro-macro model of stress drops during brittle creep in rocks. <i>Engineering Fracture Mechanics</i> , 2020, 223, 106794.	4.3	5
16	A modified model for estimating peak shear displacement of artificial joints. <i>Bulletin of Engineering Geology and the Environment</i> , 2020, 79, 5585-5597.	3.5	4
17	A Peak Dilation Angle Model Considering the Real Contact Area for Rock Joints. <i>Rock Mechanics and Rock Engineering</i> , 2020, 53, 4909-4923.	5.4	16
18	Stability analysis of anchored slopes based on a peak shear-strength criterion of rock joints. <i>Environmental Earth Sciences</i> , 2020, 79, 1.	2.7	2

#	ARTICLE	IF	CITATIONS
19	An analytical model of multi-stress drops triggered by localized microcrack damage in brittle rocks during progressive failure. <i>International Journal of Damage Mechanics</i> , 2020, 29, 1345-1360.	4.2	8
20	A coupled time integration algorithm for discontinuous deformation analysis using the numerical manifold method. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2020, 44, 1145-1169.	3.3	1
21	Study on fracture process zone near mode II and mode III dynamic crack tip. <i>Arabian Journal of Geosciences</i> , 2020, 13, 1.	1.3	0
22	Research on the anisotropy, size effect, and sampling interval effect of joint surface roughness. <i>Arabian Journal of Geosciences</i> , 2020, 13, 1.	1.3	7
23	A simple gradient model for zonal disintegration of the surrounding rock around a deep circular tunnel. <i>Tunnelling and Underground Space Technology</i> , 2019, 91, 103006.	6.2	12
24	New roughness parameters for 3D roughness of rock joints. <i>Bulletin of Engineering Geology and the Environment</i> , 2019, 78, 4505-4517.	3.5	25
25	A Study on the Creeping Failure related to Crack Inclination of Brittle Rocks. <i>KSCE Journal of Civil Engineering</i> , 2019, 23, 444-451.	1.9	4
26	Evaluation of strength and failure of brittle rock containing initial cracks under lithospheric conditions. <i>Acta Geophysica</i> , 2018, 66, 141-152.	2.0	20
27	Viscoelastic Boundary Conditions for Multiple Excitation Sources in the Time Domain. <i>Mathematical Problems in Engineering</i> , 2018, 2018, 1-11.	1.1	1
28	A direction-dependent shear strength criterion for rock joints with two new roughness parameters. <i>Arabian Journal of Geosciences</i> , 2018, 11, 1.	1.3	14
29	A micro-macro dynamic compressive-shear fracture model under static confining pressure in brittle rocks. <i>International Journal of Impact Engineering</i> , 2018, 122, 109-118.	5.0	9
30	Gradient elasticity and size effect for the borehole problem. <i>Acta Mechanica</i> , 2018, 229, 3305-3318.	2.1	10
31	Viscosity of rock mass at different structural levels. <i>Acta Geotechnica</i> , 2017, 12, 305-320.	5.7	7
32	Effects of time integration schemes on discontinuous deformation simulations using the numerical manifold method. <i>International Journal for Numerical Methods in Engineering</i> , 2017, 112, 1614-1635.	2.8	4
33	Effects of crack inclination on shear failure of brittle geomaterials under compression. <i>Arabian Journal of Geosciences</i> , 2017, 10, 1.	1.3	7
34	Gradient plasticity used for modeling extrinsic and intrinsic size effects in the torsion of Au microwires. <i>Journal of the Mechanical Behavior of Materials</i> , 2016, 25, 53-56.	1.8	1
35	Influence of soil liquefaction on the seismic response of a subway station in model tests. <i>Bulletin of Engineering Geology and the Environment</i> , 2016, 75, 1169-1182.	3.5	44
36	On temporal-structural dynamic failure criteria for rocks. <i>Journal of the Mechanical Behavior of Materials</i> , 2015, 24, 173-181.	1.8	4

#	ARTICLE	IF	CITATIONS
37	Modeling the zonal disintegration of rocks near deep level tunnels by gradient internal variable continuous phase transition theory. <i>Journal of the Mechanical Behavior of Materials</i> , 2015, 24, 161-171.	1.8	4
38	Shaking table tests on a three-arch type subway station structure in a liquefiable soil. <i>Bulletin of Earthquake Engineering</i> , 2015, 13, 1675-1701.	4.1	67
39	Physical mechanism of super-deep penetration of solid microparticles into solid targets. <i>Journal of the Mechanical Behavior of Materials</i> , 2014, 23, 21-26.	1.8	9
40	Equilibrium equations and boundary conditions of strain gradient theory in arbitrary curvilinear coordinates. <i>Journal of the Mechanical Behavior of Materials</i> , 2014, 23, 169-176.	1.8	0
41	An Analytical Method for Predicting Direct Tensile Creep Fracture in Brittle Solids Containing Initial Microcracks. <i>Acta Mechanica Solida Sinica</i> , 0, , 1.	1.9	1