Chengzeng Yan

List of Publications by Year
in descending order

37	2,113	186265	330143
37	**2,113**	**28**	**37**
papers	citations	h-index	g-index

37	37	37	760
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A FDEM-based 2D coupled thermal-hydro-mechanical model for multiphysical simulation of rock fracturing. International Journal of Rock Mechanics and Minings Sciences, 2022, 149, 104964.	5.8	67
2	Three-dimensional finite discrete element-based contact heat transfer model considering thermal cracking in continuous–discontinuous media. Computer Methods in Applied Mechanics and Engineering, 2022, 388, 114228.	6.6	42
3	A 2D discrete moisture diffusion model for simulating desiccation fracturing of soil. Engineering Analysis With Boundary Elements, 2022, 138, 42-64.	3.7	29
4	Three-dimensional continuous-discrete pore-fracture mixed seepage model and hydro-mechanical coupling model to simulate hydraulic fracturing. Journal of Petroleum Science and Engineering, 2022, 215, 110510.	4.2	26
5	A FDEM based 3D discrete mixed seepage model for simulating fluid driven fracturing. Engineering Analysis With Boundary Elements, 2022, 140, 447-463.	3.7	25
6	A coupled contact heat transfer and thermal cracking model for discontinuous and granular media. Computer Methods in Applied Mechanics and Engineering, 2021, 375, 113587.	6.6	54
7	A 2D mixed fracture–pore seepage model and hydromechanical coupling for fractured porous media. Acta Geotechnica, 2021, 16, 3061-3086.	5.7	42
8	A 2D FDEM-based moisture diffusion–fracture coupling model for simulating soil desiccation cracking. Acta Geotechnica, 2021, 16, 2609-2628.	5.7	43
9	Complex hydraulic-fracture-network propagation in a naturally fractured reservoir. Computers and Geotechnics, 2021, 135, 104165.	4.7	48
10	A new 2D continuous-discontinuous heat conduction model for modeling heat transfer and thermal cracking in quasi-brittle materials. Computers and Geotechnics, 2021, 137, 104231.	4.7	40
11	A new 3D continuous-discontinuous heat conduction model and coupled thermomechanical model for simulating the thermal cracking of brittle materials. International Journal of Solids and Structures, 2021, 229, 111123.	2.7	35
12	A FDEM 3D moisture migration-fracture model for simulation of soil shrinkage and desiccation cracking. Computers and Geotechnics, 2021, 140, 104425.	4.7	40
13	A two-dimensional grouting model considering hydromechanical coupling and fracturing for fractured rock mass. Engineering Analysis With Boundary Elements, 2021, 133, 385-397.	3.7	26
14	A 2D discrete heat transfer model considering the thermal resistance effect of fractures for simulating the thermal cracking of brittle materials. Acta Geotechnica, 2020, 15, 1303-1319.	5.7	49
15	A 3D thermal cracking model for rockbased on the combined finite–discrete element method. Computational Particle Mechanics, 2020, 7, 881-901.	3.0	41
16	An improved numerical manifold method with multiple layers of mathematical cover systems for the stability analysis of soil-rock-mixture slopes. Engineering Geology, 2020, 264, 105373.	6.3	82
17	Calibration of Microscopic Penalty Parameters in the Combined Finite–Discrete-Element Method. International Journal of Geomechanics, 2020, 20, .	2.7	19
18	Effect of mechanical heterogeneity on hydraulic fracture propagation in unconventional gas reservoirs. Computers and Geotechnics, 2020, 125, 103652.	4.7	34

#	Article	IF	Citations
19	Kinetic analysis of polyhedral block system using an improved potential-based penalty function approach for explicit discontinuous deformation analysis. Applied Mathematical Modelling, 2020, 82, 314-335.	4.2	30
20	Simulation of the thermal shock of brittle materials using the finite-discrete element method. Engineering Analysis With Boundary Elements, 2020, 115, 142-155.	3.7	34
21	Numerical and Experimental Study on the Cracking Behavior of Marble with En-Echelon Flaws. Rock Mechanics and Rock Engineering, 2019, 52, 4319-4338.	5.4	28
22	A three-dimensional heat transfer and thermal cracking model considering the effect of cracks on heat transfer. International Journal for Numerical and Analytical Methods in Geomechanics, 2019, 43, 1825-1853.	3.3	53
23	Fractal characteristics of the anisotropic microstructure and pore distribution of low-rank coal. AAPG Bulletin, 2019, 103, 1297-1319.	1.5	15
24	FDEM-TH3D: A three-dimensional coupled hydrothermal model for fractured rock. International Journal for Numerical and Analytical Methods in Geomechanics, 2019, 43, 415-440.	3.3	63
25	A 2D coupled hydro-thermal model for the combined finite-discrete element method. Acta Geotechnica, 2019, 14, 403-416.	5.7	56
26	A fully coupled three-dimensional hydro-mechanical finite discrete element approach with real porous seepage for simulating 3D hydraulic fracturing. Computers and Geotechnics, 2018, 96, 73-89.	4.7	127
27	A 2D fully coupled hydro-mechanical finite-discrete element model with real pore seepage for simulating the deformation and fracture of porous medium driven by fluid. Computers and Structures, 2018, 196, 311-326.	4.4	93
28	Simulation of rock dynamic failure using discontinuous numerical approach. Computers and Geotechnics, 2018, 96, 160-166.	4.7	24
29	Numerical simulation of hydraulic fracture initialization and deflection in anisotropic unconventional gas reservoirs using XFEM. Journal of Natural Gas Science and Engineering, 2018, 55, 466-475.	4.4	16
30	A coupled thermo-mechanical model based on the combined finite-discrete element method for simulating thermal cracking of rock. International Journal of Rock Mechanics and Minings Sciences, 2017, 91, 170-178.	5.8	106
31	Three-Dimensional Hydromechanical Model of Hydraulic Fracturing with Arbitrarily Discrete Fracture Networks using Finite-Discrete Element Method. International Journal of Geomechanics, 2017, 17, .	2.7	71
32	FDEM-flow3D: A 3D hydro-mechanical coupled model considering the pore seepage of rock matrix for simulating three-dimensional hydraulic fracturing. Computers and Geotechnics, 2017, 81, 212-228.	4.7	111
33	A two-dimensional coupled hydro-mechanical finite-discrete model considering porous media flow for simulating hydraulic fracturing. International Journal of Rock Mechanics and Minings Sciences, 2016, 88, 115-128.	5.8	86
34	Combined Finite-Discrete Element Method for Simulation of Hydraulic Fracturing. Rock Mechanics and Rock Engineering, 2016, 49, 1389-1410.	5.4	184
35	A coupled thermo-mechanical discontinuum model for simulating rock cracking induced by temperature stresses. Computers and Geotechnics, 2015, 67, 142-149.	4.7	81
36	A two-dimensional coupled hydromechanical discontinuum model for simulating rock hydraulic fracturing. International Journal for Numerical and Analytical Methods in Geomechanics, 2015, 39, 457-481.	3.3	85

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37	Simulating the process of reservoir-impoundment-induced landslide using the extended DDA method. Engineering Geology, 2014, 182, 37-48.	6.3	108