Chengzeng Yan

List of Publications by Year
in descending order

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

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

#	Article	IF	Citations
1	Combined Finite-Discrete Element Method for Simulation of Hydraulic Fracturing. Rock Mechanics and Rock Engineering, 2016, 49, 1389-1410.	5.4	184
2	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
3	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
4	Simulating the process of reservoir-impoundment-induced landslide using the extended DDA method. Engineering Geology, 2014, 182, 37-48.	6.3	108
5	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
6	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
7	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
8	A twoâ€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
9	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
10	A coupled thermo-mechanical discontinuum model for simulating rock cracking induced by temperature stresses. Computers and Geotechnics, 2015, 67, 142-149.	4.7	81
11	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
12	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
13	FDEMâ€TH3D: A threeâ€dimensional coupled hydrothermal model for fractured rock. International Journal for Numerical and Analytical Methods in Geomechanics, 2019, 43, 415-440.	3.3	63
14	A 2D coupled hydro-thermal model for the combined finite-discrete element method. Acta Geotechnica, 2019, 14, 403-416.	5.7	56
15	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
16	A threeâ€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
17	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
18	Complex hydraulic-fracture-network propagation in a naturally fractured reservoir. Computers and Geotechnics, 2021, 135, 104165.	4.7	48

#	Article	IF	Citations
19	A 2D FDEM-based moisture diffusion–fracture coupling model for simulating soil desiccation cracking. Acta Geotechnica, 2021, 16, 2609-2628.	5.7	43
20	A 2D mixed fracture–pore seepage model and hydromechanical coupling for fractured porous media. Acta Geotechnica, 2021, 16, 3061-3086.	5.7	42
21	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
22	A 3D thermal cracking model for rockbased on the combined finite–discrete element method. Computational Particle Mechanics, 2020, 7, 881-901.	3.0	41
23	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
24	A FDEM 3D moisture migration-fracture model for simulation of soil shrinkage and desiccation cracking. Computers and Geotechnics, 2021, 140, 104425.	4.7	40
25	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
26	Effect of mechanical heterogeneity on hydraulic fracture propagation in unconventional gas reservoirs. Computers and Geotechnics, 2020, 125, 103652.	4.7	34
27	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
28	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
29	A 2D discrete moisture diffusion model for simulating desiccation fracturing of soil. Engineering Analysis With Boundary Elements, 2022, 138, 42-64.	3.7	29
30	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
31	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
32	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
33	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
34	Simulation of rock dynamic failure using discontinuous numerical approach. Computers and Geotechnics, 2018, 96, 160-166.	4.7	24
35	Calibration of Microscopic Penalty Parameters in the Combined Finite–Discrete-Element Method. International Journal of Geomechanics, 2020, 20, .	2.7	19
36	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

#	ARTICLE	IF	CITATIONS
37	Fractal characteristics of the anisotropic microstructure and pore distribution of low-rank coal. AAPG Bulletin, 2019, 103, 1297-1319.	1.5	15