

Zhou Lei

List of Publications by Year in descending order

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Version: 2024-02-01

36
papers

1,330
citations

361296

20
h-index

395590

33
g-index

49
all docs

49
docs citations

49
times ranked

966
citing authors

#	ARTICLE	IF	CITATIONS
1	From force chains to nonclassical nonlinear dynamics in cemented granular materials. <i>Physical Review E</i> , 2022, 105, L022901.	0.8	1
2	Impact Fracture and Fragmentation of Glass via the 3D Combined Finite-Discrete Element Method. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 2484.	1.3	17
3	Benchmarking Numerical Methods for Impact and Cratering Applications. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 2504.	1.3	8
4	Injection Parameters That Promote Branching of Hydraulic Cracks. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL093321.	1.5	4
5	The combined plastic and discrete fracture deformation framework for finite-discrete element methods. <i>International Journal for Numerical Methods in Engineering</i> , 2020, 121, 1020-1035.	1.5	29
6	Numerical analysis of flyer plate experiments in granite via the combined finite-discrete element method. <i>Computational Particle Mechanics</i> , 2020, 7, 1005-1016.	1.5	14
7	HOSS: an implementation of the combined finite-discrete element method. <i>Computational Particle Mechanics</i> , 2020, 7, 765-787.	1.5	77
8	Lagrangian-based Simulations of Hypervelocity Impact Experiments on Mars Regolith Proxy. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL087393.	1.5	7
9	Simulation of mixed-mode fracture using the combined finite-discrete element method. <i>Computational Particle Mechanics</i> , 2020, 7, 1047-1055.	1.5	10
10	A smooth contact algorithm for the combined finite discrete element method. <i>Computational Particle Mechanics</i> , 2020, 7, 807-821.	1.5	40
11	A novel framework for elastoplastic behaviour of anisotropic solids. <i>Computational Particle Mechanics</i> , 2020, 7, 823-838.	1.5	16
12	FSIS: a novel fluid-solid interaction solver for fracturing and fragmenting solids. <i>Computational Particle Mechanics</i> , 2020, 7, 789-805.	1.5	44
13	Modeling earthquakes with off-fault damage using the combined finite-discrete element method. <i>Computational Particle Mechanics</i> , 2020, 7, 1057-1072.	1.5	19
14	Discrete Element and Particle Methods. , 2020, , 659-671.		2
15	Dynamics, Radiation, and Overall Energy Budget of Earthquake Rupture With Coseismic Off-Fault Damage. <i>Journal of Geophysical Research: Solid Earth</i> , 2019, 124, 11771-11801.	1.4	93
16	Simulation of crack induced nonlinear elasticity using the combined finite-discrete element method. <i>Ultrasonics</i> , 2019, 98, 51-61.	2.1	18
17	Simulation of Fracture Coalescence in Granite via the Combined Finite-Discrete Element Method. <i>Rock Mechanics and Rock Engineering</i> , 2019, 52, 3213-3227.	2.6	53
18	Simulation of discrete cracks driven by nearly incompressible fluid via 2D combined finite-discrete element method. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2019, 43, 1724-1743.	1.7	36

#	ARTICLE	IF	CITATIONS
19	Fourier amplitude sensitivity test applied to dynamic combined finiteâ€”discrete element methodsâ€”based simulations. International Journal for Numerical and Analytical Methods in Geomechanics, 2019, 43, 30-44.	1.7	12
20	Discontinuities in effective permeability due to fracture percolation. Mechanics of Materials, 2018, 119, 25-33.	1.7	11
21	Discrete Element and Particle Methods. , 2018, , 1-14.		1
22	Earthquake Damage Patterns Resolve Complex Rupture Processes. Geophysical Research Letters, 2018, 45, 10,279.	1.5	74
23	Modeling of Stickâ€”slip Behavior in Sheared Granular Fault Gouge Using the Combined Finiteâ€”Discrete Element Method. Journal of Geophysical Research: Solid Earth, 2018, 123, 5774-5792.	1.4	56
24	Understanding hydraulic fracturing: a multi-scale problem. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2016, 374, 20150426.	1.6	92
25	A non-locking composite tetrahedron element for the combined finite discrete element method. Engineering Computations, 2016, 33, 1929-1956.	0.7	24
26	Highâ€”stress triaxial directâ€”shear fracturing of Utica shale and in situ Xâ€”ray microtomography with permeability measurement. Journal of Geophysical Research: Solid Earth, 2016, 121, 5493-5508.	1.4	51
27	A generalized anisotropic deformation formulation for geomaterials. Computational Particle Mechanics, 2016, 3, 215-228.	1.5	43
28	Fracture-permeability behavior of shale. Journal of Unconventional Oil and Gas Resources, 2015, 11, 27-43.	3.5	117
29	LC-Grid: a linear global contact search algorithm for finite element analysis. Computational Mechanics, 2014, 54, 1285-1301.	2.2	34
30	A framework for grand scale parallelization of the combined finite discrete element method in 2d. Computational Particle Mechanics, 2014, 1, 307-319.	1.5	64
31	Fracture and fragmentation of thin shells using the combined finiteâ€”discrete element method. International Journal for Numerical Methods in Engineering, 2013, 95, 478-498.	1.5	51
32	HOSS. , 2013, , 97-104.		6
33	A contact algorithm for 3D discrete and finite element contact problems based on penalty function method. Computational Mechanics, 2011, 48, 541-550.	2.2	57
34	An approach to combining 3D discrete and finite element methods based on penalty function method. Computational Mechanics, 2010, 46, 609-619.	2.2	66
35	Simulation on High Velocity Impact Process of Windshield by SPH/FEM Coupling Method. , 2010, ,		4
36	Investigation of impact fracture behavior of automobile laminated glass by 3D discrete element method. Computational Mechanics, 2007, 41, 73-83.	2.2	78