A Munjiza

List of Publications by Year
in descending order

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53 papers	3,321 citations	201674 27 h-index	206112 48 g-index
55 all docs	55 docs citations	55 times ranked	1650 citing authors

#	Article	IF	Citations
1	Numerical simulation of reinforced concrete structures under impact loading. Materialwissenschaft Und Werkstofftechnik, 2019, 50, 599-610.	0.9	3
2	Study on the packed volume-to-void ratio of idealized human red blood cells using a finite-discrete element method. Applied Mathematics and Mechanics (English Edition), 2019, 40, 737-750.	3.6	5
3	Simulation of Fracture Coalescence in Granite via the Combined Finiteâ€“Discrete Element Method. Rock Mechanics and Rock Engineering, 2019, 52, 3213-3227.	5.4	53
4	A computational model of ureteral peristalsis and an investigation into ureteral reflux. Biomedical Engineering Letters, 2018, 8, 117-125.	4.1	16
5	Computational aspects of the combined finiteâ€discrete element method in static and dynamic analysis of shell structures. Materialwissenschaft Und Werkstofftechnik, 2018, 49, 635-651.	0.9	3
6	A computationally efficient numerical model for a dynamic analysis of beam type structures based on the combined finiteâ€discrete element method. Materialwissenschaft Und Werkstofftechnik, 2018, 49, 651-665.	0.9	4
7	Flow design and simulation of a gas compression system for hydrogen fusion energy production. Fluid Dynamics Research, 2017, 49, 045504.	1.3	3
8	On parallel preâ€conditioners for pressure Poisson equation in LES of complex geometry flows. International Journal for Numerical Methods in Fluids, 2017, 83, 446-464.	1.6	18
9	A generalized anisotropic deformation formulation for geomaterials. Computational Particle Mechanics, 2016, 3, 215-228.	3.0	43
10	Frictional contact analysis of functionally graded materials with Lagrange finite block method. International Journal for Numerical Methods in Engineering, 2015, 103, 391-412.	2.8	19
11	Parallel Pressure Poisson Solvers for LES of Complex Geometry Flows. , 2015, , .		0
12	Large Eddy Simulation of Flows Around a Kite Used as an Auxiliary Propulsion System. Journal of Fluids Engineering, Transactions of the ASME, 2015, 137, .	1.5	8
13	Space decomposition based parallelization solutions for the combined finiteâ€“discrete element method in 2D. Journal of Rock Mechanics and Geotechnical Engineering, 2014, 6, 607-615.	8.1	31
14	Numerical simulation of a marine current turbine in free surface flow. Renewable Energy, 2014, 63, 715-723.	8.9	65
15	A framework for grand scale parallelization of the combined finite discrete element method in 2d. Computational Particle Mechanics, 2014, 1, 307-319.	3.0	64
16	Validation of a three-dimensional Finite-Discrete Element Method using experimental results of the Split Hopkinson Pressure Bar test. International Journal of Rock Mechanics and Minings Sciences, 2014, 70, 101-108.	5.8	132
17	Fracture and fragmentation of thin shells using the combined finiteâ€“discrete element method. International Journal for Numerical Methods in Engineering, 2013, 95, 478-498.	2.8	51
18	Direct numerical simulation of sediment entrainment in turbulent channel flow. Physics of Fluids, 2013, 25, .	4.0	62

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19	HOSS. , 2013, , 97-104.		6
20	Simulation of the Upper Urinary System. Critical Reviews in Biomedical Engineering, 2013, 41, 259-268.	0.9	8
21	Y-Geo: New Combined Finite-Discrete Element Numerical Code for Geomechanical Applications. International Journal of Geomechanics, 2012, 12, 676-688.	2.7	284
22	Numerical simulation of interaction between laminar flow and elastic sheet. Transactions of Tianjin University, 2012, 18, 85-89.	6.4	2
23	A novel iterative direct-forcing immersed boundary method and its finite volume applications. Journal of Computational Physics, 2012, 231, 1797-1821.	3.8	159
24	A Study on the Role of Reaction Modeling in Multi-phase CFD-based Simulations of Chemical Looping Combustion. Oil and Gas Science and Technology, 2011, 66, 313-331.	1.4	22
25	A comparative study of reaction models applied for chemical looping combustion. Chemical Engineering Research and Design, 2011, 89, 2714-2727.	5.6	32
26	Performance of integration schemes in discrete element simulations of particle systems involving consecutive contacts. Computers and Chemical Engineering, 2011, 35, 2152-2157.	3.8	6
27	Y-GUI: A graphical user interface and pre-processor for the combined finite-discrete element code, Y2D, incorporating material heterogeneity. Computers and Geosciences, 2010, 36, 241-252.	4.2	86
28	The Virtual Geoscience Workbench, VGW: Open Source tools for discontinuous systems. Particuology, 2010, 8, 100-105.	3.6	31
29	Development and testing of an interconnected multiphase CFD-model for chemical looping combustion. Chemical Engineering Science, 2010, 65, 4732-4745.	3.8	74
30	MR linear contact detection algorithm. International Journal for Numerical Methods in Engineering, 2006, 66, 46-71.	2.8	64
31	Comparison of experimental and FEM/DEM results for gravitational deposition of identical cubes. Engineering Computations, 2004, 21, 249-264.	1.4	21
32	Numerical comparison of some explicit time integration schemes used in DEM, FEM/DEM and molecular dynamics. International Journal for Numerical Methods in Engineering, 2004, 61, 856-879.	2.8	110
33	The combined finiteâ€“discrete element method for structural failure and collapse. Engineering Fracture Mechanics, 2004, 71, 469-483.	4.3	70
34	Some computational and algorithmic developments in computational mechanics of discontinua. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2004, 362, 1817-1833.	3.4	11
35	The modelling of particle systems with real shapes. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2004, 362, 1953-1972.	3.4	102
36	Shape selection menu for grand scale discontinua systems. Engineering Computations, 2004, 21, 343-359.	1.4	13

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37	Experimental validation of a computationally efficient beam element for combined finite-discrete element modelling of structures in distress. Computational Mechanics, 2003, 30, 366-373.	4.0	8
38	3D dynamics of discrete element systems comprising irregular discrete elements?integration solution for finite rotations in 3D. International Journal for Numerical Methods in Engineering, 2003, 56, 35-55.	2.8	70
39	Computational Challenge of Large Scale Discontinua Analysis. , 2002, , 5.		3
40	A Computationally Efficient Beam Element for FEM/DEM Simulations of Structural Failure and Collapse. , 2002, , 133.		1
41	Mesh size sensitivity of the combined FEM/DEM fracture and fragmentation algorithms. Engineering Fracture Mechanics, 2002, 69, 281-295.	4.3	92
42	A random method for simulating loose packs of angular particles using tetrahedra. Geotechnique, 2001, 51, 871-879.	4.0	48
43	Penalty function method for combined finite-discrete element systems comprising large number of separate bodies. International Journal for Numerical Methods in Engineering, 2000, 49, 1377-1396.	2.8	187
44	Detonation gas model for combined finite-discrete element simulation of fracture and fragmentation. International Journal for Numerical Methods in Engineering, 2000, 49, 1495-1520.	2.8	63
45	Penalty function method for combined finiteâ€“discrete element systems comprising large number of separate bodies. International Journal for Numerical Methods in Engineering, 2000, 49, 1377-1396.	2.8	4
46	Detonation gas model for combined finiteâ€discrete element simulation of fracture and fragmentation. International Journal for Numerical Methods in Engineering, 2000, 49, 1495-1520.	2.8	2
47	Challenges of a coupled combined finite-discrete element approach to explosive induced rock fragmentation. International Journal for Blasting and Fragmentation, 1999, 3, 237-250.	0.2	10
48	Rock fragmentation by blastingâ€”a literature study of research in the 1980â€²s and 1990â€²s. International Journal for Blasting and Fragmentation, 1999, 3, 193-212.	0.2	14
49	Combined single and smeared crack model in combined finite-discrete element analysis. International Journal for Numerical Methods in Engineering, 1999, 44, 41-57.	2.8	261
50	AnM(Mâ^'1K)m proportional damping in explicit integration of dynamic structural systems. International Journal for Numerical Methods in Engineering, 1998, 41, 1277-1296.	2.8	38
51	NBS contact detection algorithm for bodies of similar size. International Journal for Numerical Methods in Engineering, 1998, 43, 131-149.	2.8	319
52	NBS contact detection algorithm for bodies of similar size. , 1998, 43, 131.		3
53	A combined finiteâ€discrete element method in transient dynamics of fracturing solids. Engineering Computations, 1995, 12, 145-174.	1.4	517