Xue Zhang

List of Publications by Year
in descending order

39 papers	1,216 citations	394286 19 h-index	377752 34 g-index
41 all docs	41 docs citations	41 times ranked	711 citing authors

#	Article	IF	Citations
1	A modification of the phase-field model for mixed mode crack propagation in rock-like materials. Computer Methods in Applied Mechanics and Engineering, 2017, 322, 123-136.	3.4	174
2	Numerical evaluation of the phase-field model for brittle fracture with emphasis on the length scale. Computational Mechanics, 2017, 59, 737-752.	2.2	122
3	Numerical simulation of a flow-like landslide using the particle finite element method. Computational Mechanics, 2015, 55, 167-177.	2.2	110
4	Particle finite element analysis of the granular column collapse problem. Granular Matter, 2014, 16, 609-619.	1.1	87
5	A unified Lagrangian formulation for solid and fluid dynamics and its possibility for modelling submarine landslides and their consequences. Computer Methods in Applied Mechanics and Engineering, 2019, 343, 314-338.	3.4	64
6	Lagrangian modelling of large deformation induced by progressive failure of sensitive clays with elastoviscoplasticity. International Journal for Numerical Methods in Engineering, 2017, 112, 963-989.	1.5	63
7	AUS: Anisotropic undrained shear strength model for clays. International Journal for Numerical and Analytical Methods in Geomechanics, 2019, 43, 2652-2666.	1.7	47
8	<scp>Multiple‐GPU</scp> parallelization of three‐dimensional material point method based on single‐root complex. International Journal for Numerical Methods in Engineering, 2022, 123, 1481-1504.	1.5	44
9	Dynamic modelling of retrogressive landslides with emphasis on the role of clay sensitivity. International Journal for Numerical and Analytical Methods in Geomechanics, 2018, 42, 1806-1822.	1.7	42
10	A case study and implication: particle finite element modelling of the 2010 Saint-Jude sensitive clay landslide. Landslides, 2020, 17, 1117-1127.	2.7	39
11	3D numerical simulation of free-surface Bingham fluids interacting with structures using the PFEM. Journal of Non-Newtonian Fluid Mechanics, 2018, 259, 1-15.	1.0	32
12	Second-order cone programming formulation for consolidation analysis of saturated porous media. Computational Mechanics, 2016, 58, 29-43.	2.2	31
13	Smooth particle hydrodynamics and discrete element method coupling scheme for the simulation of debris flows. Computers and Geotechnics, 2020, 125, 103669.	2.3	31
14	Micro-macro homogenization of gradient-enhanced Cosserat media. European Journal of Mechanics, A/Solids, 2011, 30, 362-372.	2.1	28
15	Quasi-static collapse of two-dimensional granular columns: insight from continuum modelling. Granular Matter, 2016, 18, 1.	1.1	25
16	A generalized Hill's lemma and micromechanically based macroscopic constitutive model for heterogeneous granular materials. Computer Methods in Applied Mechanics and Engineering, 2010, 199, 3137-3152.	3.4	24
17	A 3D upper bound limit analysis using radial point interpolation meshless method and second‐order cone programming. International Journal for Numerical Methods in Engineering, 2016, 108, 1686-1704.	1.5	21
18	A smoothed finite element method using second-order cone programming. Computers and Geotechnics, 2020, 123, 103547.	2.3	21

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19	A generalized Hellinger-Reissner variational principle and its PFEM formulation for dynamic analysis of saturated porous media. Computers and Geotechnics, 2021, 132, 103994.	2.3	21
20	Phase-field modeling of hydraulic fracture network propagation in poroelastic rocks. Computational Geosciences, 2020, 24, 1767-1782.	1.2	19
21	Numerical investigation of the cylinder movement in granular matter. Physical Review E, 2015, 91, 022204.	0.8	18
22	Mathematical Optimization Problems for Particle Finite Element Analysis Applied to 2D Landslide Modeling. Mathematical Geosciences, 2021, 53, 81-103.	1.4	17
23	Large deformation dynamic analysis of progressive failure in layered clayey slopes under seismic loading using the particle finite element method. Acta Geotechnica, 2021, 16, 2435-2448.	2.9	16
24	An iterative pressure–stabilized fractional step algorithm in saturated soil dynamics. International Journal for Numerical and Analytical Methods in Geomechanics, 2010, 34, 733-753.	1.7	14
25	An implicit nodal integration based PFEM for soil flow problems. Computers and Geotechnics, 2022, 142, 104571.	2.3	14
26	Coupled analysis of full flow penetration problems in soft sensitive clays. Computers and Geotechnics, 2021, 133, 104054.	2.3	13
27	A nodal-integration based particle finite element method (N-PFEM) to model cliff recession. Geomorphology, 2021, 381, 107666.	1.1	12
28	Numerical investigations on breakage behaviour of granular materials under triaxial stresses. Geomechanics and Engineering, 2016, 11, 639-655.	0.9	11
29	Large deformation analysis in geohazards and geotechnics. Journal of Zhejiang University: Science A, 2021, 22, 851-855.	1.3	10
30	Reconstruction of the 1783 Scilla landslide, Italy: numerical investigations on the flow-like behaviour of landslides. Landslides, 2019, 16, 1065-1076.	2.7	8
31	Low-order mixed finite element analysis of progressive failure in pressure-dependent materials within the framework of the Cosserat continuum. Engineering Computations, 2017, 34, 251-271.	0.7	7
32	An isogeometric approach to Biot-Cosserat continuum for simulating dynamic strain localization in saturated soils. Computers and Geotechnics, 2021, 133, 104036.	2.3	6
33	A three-dimensional particle finite element model for simulating soil flow with elastoplasticity. Acta Geotechnica, 2022, 17, 5639-5653.	2.9	6
34	Development of an adaptive CTM–RPIM method for modeling large deformation problems in geotechnical engineering. Acta Geotechnica, 2022, 17, 2059-2077.	2.9	5
35	Spatial variability characteristics of the effective friction angle of Crag deposits and its effects on slope stability. Computers and Geotechnics, 2022, 141, 104532.	2.3	4
36	Fourth-order hybrid phase field analysis with non-equal order elements and dual meshes for simulating crack propagation. Computers and Geotechnics, 2022, 142, 104587.	2.3	4

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37	Effect of Aging and Temperature on the Viscosity of the Adhesive Used for Retard-Bonded Prestressed Systems. Journal of Testing and Evaluation, 2019, 47, 1848-1863.	0.4	1
38	Particle Finite Element Simulation of Granular Media. Applied Mechanics and Materials, 0, 553, 410-415.	0.2	0
39	Large deformation failure analysis of slopes using the smoothed particle finite element method. IOP Conference Series: Earth and Environmental Science, 2021, 710, 012024.	0.2	0