

# Xue Zhang

## List of Publications by Year in descending order

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Version: 2024-02-01

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	Spatial variability characteristics of the effective friction angle of Crag deposits and its effects on slope stability. <i>Computers and Geotechnics</i> , 2022, 141, 104532.	2.3	4
2	An implicit nodal integration based PFEM for soil flow problems. <i>Computers and Geotechnics</i> , 2022, 142, 104571.	2.3	14
3	Fourth-order hybrid phase field analysis with non-equal order elements and dual meshes for simulating crack propagation. <i>Computers and Geotechnics</i> , 2022, 142, 104587.	2.3	4
4	Multiple GPU parallelization of three-dimensional material point method based on single-root complex. <i>International Journal for Numerical Methods in Engineering</i> , 2022, 123, 1481-1504.	1.5	44
5	Development of an adaptive CTM-RPIM method for modeling large deformation problems in geotechnical engineering. <i>Acta Geotechnica</i> , 2022, 17, 2059-2077.	2.9	5
6	A three-dimensional particle finite element model for simulating soil flow with elastoplasticity. <i>Acta Geotechnica</i> , 2022, 17, 5639-5653.	2.9	6
7	Mathematical Optimization Problems for Particle Finite Element Analysis Applied to 2D Landslide Modeling. <i>Mathematical Geosciences</i> , 2021, 53, 81-103.	1.4	17
8	A generalized Hellinger-Reissner variational principle and its PFEM formulation for dynamic analysis of saturated porous media. <i>Computers and Geotechnics</i> , 2021, 132, 103994.	2.3	21
9	Large deformation failure analysis of slopes using the smoothed particle finite element method. <i>IOP Conference Series: Earth and Environmental Science</i> , 2021, 710, 012024.	0.2	0
10	A nodal-integration based particle finite element method (N-PFEM) to model cliff recession. <i>Geomorphology</i> , 2021, 381, 107666.	1.1	12
11	Coupled analysis of full flow penetration problems in soft sensitive clays. <i>Computers and Geotechnics</i> , 2021, 133, 104054.	2.3	13
12	An isogeometric approach to Biot-Cosserat continuum for simulating dynamic strain localization in saturated soils. <i>Computers and Geotechnics</i> , 2021, 133, 104036.	2.3	6
13	Large deformation dynamic analysis of progressive failure in layered clayey slopes under seismic loading using the particle finite element method. <i>Acta Geotechnica</i> , 2021, 16, 2435-2448.	2.9	16
14	Large deformation analysis in geohazards and geotechnics. <i>Journal of Zhejiang University: Science A</i> , 2021, 22, 851-855.	1.3	10
15	A case study and implication: particle finite element modelling of the 2010 Saint-Jude sensitive clay landslide. <i>Landslides</i> , 2020, 17, 1117-1127.	2.7	39
16	Smooth particle hydrodynamics and discrete element method coupling scheme for the simulation of debris flows. <i>Computers and Geotechnics</i> , 2020, 125, 103669.	2.3	31
17	Phase-field modeling of hydraulic fracture network propagation in poroelastic rocks. <i>Computational Geosciences</i> , 2020, 24, 1767-1782.	1.2	19
18	A smoothed finite element method using second-order cone programming. <i>Computers and Geotechnics</i> , 2020, 123, 103547.	2.3	21

#	ARTICLE	IF	CITATIONS
19	AUS: Anisotropic undrained shear strength model for clays. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2019, 43, 2652-2666.	1.7	47
20	Reconstruction of the 1783 Scilla landslide, Italy: numerical investigations on the flow-like behaviour of landslides. <i>Landslides</i> , 2019, 16, 1065-1076.	2.7	8
21	A unified Lagrangian formulation for solid and fluid dynamics and its possibility for modelling submarine landslides and their consequences. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2019, 343, 314-338.	3.4	64
22	Effect of Aging and Temperature on the Viscosity of the Adhesive Used for Retard-Bonded Prestressed Systems. <i>Journal of Testing and Evaluation</i> , 2019, 47, 1848-1863.	0.4	1
23	3D numerical simulation of free-surface Bingham fluids interacting with structures using the PFEM. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2018, 259, 1-15.	1.0	32
24	Dynamic modelling of retrogressive landslides with emphasis on the role of clay sensitivity. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2018, 42, 1806-1822.	1.7	42
25	Numerical evaluation of the phase-field model for brittle fracture with emphasis on the length scale. <i>Computational Mechanics</i> , 2017, 59, 737-752.	2.2	122
26	Lagrangian modelling of large deformation induced by progressive failure of sensitive clays with elastoviscoplasticity. <i>International Journal for Numerical Methods in Engineering</i> , 2017, 112, 963-989.	1.5	63
27	Low-order mixed finite element analysis of progressive failure in pressure-dependent materials within the framework of the Cosserat continuum. <i>Engineering Computations</i> , 2017, 34, 251-271.	0.7	7
28	A modification of the phase-field model for mixed mode crack propagation in rock-like materials. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2017, 322, 123-136.	3.4	174
29	A 3D upper bound limit analysis using radial point interpolation meshless method and second-order cone programming. <i>International Journal for Numerical Methods in Engineering</i> , 2016, 108, 1686-1704.	1.5	21
30	Second-order cone programming formulation for consolidation analysis of saturated porous media. <i>Computational Mechanics</i> , 2016, 58, 29-43.	2.2	31
31	Quasi-static collapse of two-dimensional granular columns: insight from continuum modelling. <i>Granular Matter</i> , 2016, 18, 1.	1.1	25
32	Numerical investigations on breakage behaviour of granular materials under triaxial stresses. <i>Geomechanics and Engineering</i> , 2016, 11, 639-655.	0.9	11
33	Numerical simulation of a flow-like landslide using the particle finite element method. <i>Computational Mechanics</i> , 2015, 55, 167-177.	2.2	110
34	Numerical investigation of the cylinder movement in granular matter. <i>Physical Review E</i> , 2015, 91, 022204.	0.8	18
35	Particle finite element analysis of the granular column collapse problem. <i>Granular Matter</i> , 2014, 16, 609-619.	1.1	87
36	Micro-macro homogenization of gradient-enhanced Cosserat media. <i>European Journal of Mechanics, A/Solids</i> , 2011, 30, 362-372.	2.1	28

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37	A generalized Hill's lemma and micromechanically based macroscopic constitutive model for heterogeneous granular materials. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2010, 199, 3137-3152.	3.4	24
38	An iterative pressure-stabilized fractional step algorithm in saturated soil dynamics. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2010, 34, 733-753.	1.7	14
39	Particle Finite Element Simulation of Granular Media. <i>Applied Mechanics and Materials</i> , 0, 553, 410-415.	0.2	0