Wanqing Shen

List of Publications by Citations

64 papers	745 citations	17 h-index	24 g-index
69 ext. papers	949 ext. citations	4.1 avg, IF	4.76 L-index

#	Paper	IF	Citations
64	A micro-macro model for clayey rocks with a plastic compressible porous matrix. *International Journal of Plasticity*, **2012**, 36, 64-85	7.6	107
63	A closed-form three scale model for ductile rocks with a plastically compressible porous matrix. *Mechanics of Materials*, **2013**, 59, 73-86	3.3	59
62	An incremental micro-macro model for porous geomaterials with double porosity and inclusion. *International Journal of Plasticity*, **2016**, 83, 37-54	7.6	37
61	Macroscopic criterion for ductile porous materials based on a statically admissible microscopic stress field. *International Journal of Plasticity*, **2015**, 70, 60-76	7.6	31
60	Approximate criteria for ductile porous materials having a Green type matrix: Application to double porous media. *Computational Materials Science*, **2012**, 62, 189-194	3.2	30
59	Approximate macroscopic yield criteria for Drucker-Prager type solids with spheroidal voids. *International Journal of Plasticity*, **2017**, 99, 221-247	7.6	28
58	Effective strength of saturated double porous media with a Drucker-Prager solid phase. *International Journal for Numerical and Analytical Methods in Geomechanics*, **2014**, 38, 281-296	4	24
57	A new bond model in peridynamics theory for progressive failure in cohesive brittle materials. *Engineering Fracture Mechanics*, **2020**, 223, 106767	4.2	23
56	A novel FFT-based phase field model for damage and cracking behavior of heterogeneous materials. *International Journal of Plasticity*, **2020**, 133, 102786	7.6	22
55	Effects of inclusions and pores on plastic and viscoplastic deformation of rock-like materials. *International Journal of Plasticity*, **2018**, 108, 107-124	7.6	22
54	Influences of micro-pores and meso-pores on elastic and plastic properties of porous materials. *European Journal of Mechanics, A/Solids*, **2018**, 72, 407-423	3.7	21
53	Shakedown of porous materials. *International Journal of Plasticity*, **2017**, 95, 123-141	7.6	20
52	A new macroscopic criterion of porous materials with a Mises-Schleicher compressible matrix. *European Journal of Mechanics, A/Solids*, **2015**, 49, 531-538	3.7	19
51	Some micromechanical models of elastoplastic behaviors of porous geomaterials. *Journal of Rock Mechanics and Geotechnical Engineering*, **2017**, 9, 1-17	5.3	17
50	A micromechanical model of inherently anisotropic rocks. *Computers and Geotechnics*, **2015**, 65, 73-79	4.4	17
49	A damage model of mechanical behavior of porous materials: Application to sandstone. *International Journal of Damage Mechanics*, **2018**, 27, 1325-1351	3	17
48	Evaluation and improvement of macroscopic yield criteria of porous media having a Drucker-Prager matrix. *International Journal of Plasticity*, **2020**, 126, 102609	7.6	17

47	Comparative mechanical behaviors of four fiber-reinforced sand cemented by microbially induced carbonate precipitation. *Bulletin of Engineering Geology and the Environment*, **2020**, 79, 3075-3086	4	16
46	An approximate strength criterion of porous materials with a pressure sensitive and tension-compression asymmetry matrix. *International Journal of Engineering Science*, **2018**, 132, 1-15	5.7	12
45	Improved criteria for ductile porous materials having a Green type matrix by using Eshelby-like velocity fields. *Theoretical and Applied Fracture Mechanics*, **2013**, 67-68, 14-21	3.7	12
44	A micro-macro model for porous geomaterials with inclusion debonding. *International Journal of Damage Mechanics*, **2015**, 24, 1026-1046	3	11
43	Homogenization of saturated double porous media with Eshelby-like velocity field. *Acta Geophysica*, **2014**, 62, 1146-1162	2.2	11
42	Multi-scale modeling of time-dependent behavior of claystones with a viscoplastic compressible porous matrix. *Mechanics of Materials*, **2014**, 79, 25-34	3.3	11
41	A micro-mechanics based viscoplastic model for clayey rocks. *Computers and Geotechnics*, **2017**, 89, 92-102	4.4	10
40	A macroscopic criterion of shakedown limit for ductile porous materials subjected to general cyclic loadings. *Mechanics of Materials*, **2017**, 115, 76-87	3.3	9
39	Shakedown of porous material with Drucker-Prager dilatant matrix under general cyclic loadings. *Composite Structures*, **2019**, 220, 566-579	5.3	8
38	An adaptive coupling method of state-based peridynamics theory and finite element method for modeling progressive failure process in cohesive materials. *Computer Methods in Applied Mechanics and Engineering*, **2020**, 370, 113248	5.7	8
37	Numerical homogenization of elastic properties and plastic yield stress of rock-like materials with voids and inclusions at same scale. *European Journal of Mechanics, A/Solids*, **2020**, 81, 103958	3.7	8
36	A numerical study of effective mechanical behaviors of rock like materials based on Fast Fourier Transform. *Mechanics of Materials*, **2016**, 92, 275-288	3.3	8
35	An elastic-plastic model for porous rocks with two populations of voids. *Computers and Geotechnics*, **2016**, 76, 194-200	4.4	8
34	A micromechanics-based enhanced plastic damage model including localization analysis for heterogeneous geomaterials. *Computers and Geotechnics*, **2020**, 122, 103512	4.4	7
33	Influence of pore pressure on plastic deformation and strength of limestone under compressive stress. *Acta Geotechnica*, **2019**, 14, 535-545	4.9	7
32	Macroscopic Yield Criterion for Ductile Materials Containing Randomly Oriented Spheroidal Cavities. *International Journal of Damage Mechanics*, **2011**, 20, 1198-1216	3	7
31	A micromechanical study of drying and carbonation effects in cement-based materials. *Continuum Mechanics and Thermodynamics*, **2015**, 27, 49-61	3.5	6
30	Shakedown analysis of a hollow sphere by interior-point method with non-linear optimization. *International Journal of Mechanical Sciences*, **2020**, 175, 105515	5.5	6

#			
29	A homogenized macroscopic criterion for shakedown analysis of ductile porous media with kinematical hardening matrix. *European Journal of Mechanics, A/Solids*, **2020**, 82, 104015	3.7	6
28	Micromechanical modeling of mortar as a matrix-inclusion composite with drying effects. *International Journal for Numerical and Analytical Methods in Geomechanics*, **2013**, 37, 1034-1047	4	6
27	Macroscopic criteria for Green type porous materials with spheroidal voids: application to double porous materials. *International Journal for Numerical and Analytical Methods in Geomechanics*, **2017**, 41, 1453-1473	4	5
26	A Novel Approach to Enhance the Urease Activity of Sporosarcina pasteurii and its Application on Microbial-Induced Calcium Carbonate Precipitation for Sand. *Geomicrobiology Journal*, **2019**, 36, 819-825	2.5	5
25	Exact elastic solution of the axisymmetric and deviatoric loaded hollow sphere. *International Journal of Pressure Vessels and Piping*, **2018**, 162, 40-45	2.4	5
24	A microstructure-based constitutive model for cement paste with chemical leaching effect. *Mechanics of Materials*, **2020**, 150, 103571	3.3	5
23	Prediction of plastic yield surface for porous materials by a machine learning approach. *Materials Today Communications*, **2020**, 25, 101477	2.5	5
22	A micromechanics-based model for concrete materials subjected to carbonation. *International Journal for Numerical and Analytical Methods in Geomechanics*, **2016**, 40, 1203-1218	4	5
21	A micromechanical model for porous materials with a reinforced matrix. *Mechanics Research Communications*, **2016**, 72, 81-86	2.2	3
20	Plastic modeling of porous rocks in drained and undrained conditions. *Computers and Geotechnics*, **2020**, 117, 103277	4.4	3
19	Insight of molecular simulation to better assess deformation and failure of clay-rich rocks in compression and extension. *International Journal of Rock Mechanics and Minings Sciences*, **2021**, 138, 104589	6	3
18	A multi-scale model of plasticity and damage for rock-like materials with pores and inclusions. *International Journal of Rock Mechanics and Minings Sciences*, **2021**, 138, 104579	6	3
17	A micro-mechanics-based elastic plastic model for porous rocks: applications to sandstone and chalk. *Acta Geotechnica*, **2017**, 13, 329	4.9	2
16	A three-scale micro-mechanical model for elastic plastic damage modeling of shale rocks. *Acta Geotechnica*, **2020**, 15, 3525-3543	4.9	2
15	A multiscale elastoplastic constitutive model for geomaterials with a porous matrix-inclusion microstructure. *Computers and Geotechnics*, **2020**, 126, 103683	4.4	2
14	A constitutive model for anisotropic clay-rich rocks considering micro-structural composition. *International Journal of Rock Mechanics and Minings Sciences*, **2022**, 151, 105029	6	2
13	Influences of chemical leaching on elastic and plastic properties of cement-based materials. *European Journal of Environmental and Civil Engineering*, **2017**, 21, 696-711	1.5	1
12	Multiscale modeling approaches and micromechanics of porous rocks **2017**, 215-232		1

LIST OF PUBLICATIONS

11	A Simplified Model for Clayey Rocks Having a Plastic Porous Matrix. *Springer Series in Geomechanics and Geoengineering*, **2013**, 283-287	0.1	1
10	Prediction of TBM cutterhead speed and penetration rate for high-efficiency excavation of hard rock tunnel using CNN-LSTM model with construction big data. *Arabian Journal of Geosciences*, **2022**, 15, 1	1.8	1
9	Modified KCC model for modelling mechanical behaviour of quartz sandstone under triaxial compression from low to high confining pressures. *European Journal of Environmental and Civil Engineering*,1-17	1.5	1
8	An explicit formulation of the macroscopic strength criterion for porous media with pressure and Lode angle dependent matrix under axisymmetric loading. *Journal of Rock Mechanics and Geotechnical Engineering*, **2021**, 13, 820-832	5.3	1
7	Performance of enhanced geothermal system with varying injection-production parameters and reservoir properties. *Applied Thermal Engineering*, **2022**, 207, 118160	5.8	0
6	Contribution of atomistic study to better understand water saturation effect on mechanical behavior of clayey rocks in triaxial compression. *Computers and Geotechnics*, **2022**, 146, 104738	4.4	0
5	Approximate plastic yield criteria of geomaterials with pores and grains embedded in a porous matrix. *International Journal of Plasticity*, **2022**, 153, 103275	7.6	0
4	Homogenization of Ductile Porous Materials by Limit and Shakedown Analysis. *Lecture Notes in Applied and Computational Mechanics*, **2021**, 97-116	0.3	
3	A FFT-based plastic model of heterogeneous rock-like geomaterials considering micro-void evolution. *IOP Conference Series: Earth and Environmental Science*, **2021**, 861, 032043	0.3	
2	Molecular dynamics study on creep behavior of montmorillonite. *IOP Conference Series: Earth and Environmental Science*, **2021**, 861, 042099	0.3	
1	Investigation of Parameter Influence on Damage Evolution via PD-FEM Coupling Method. *Lecture Notes in Civil Engineering*, **2021**, 672-679	0.3	