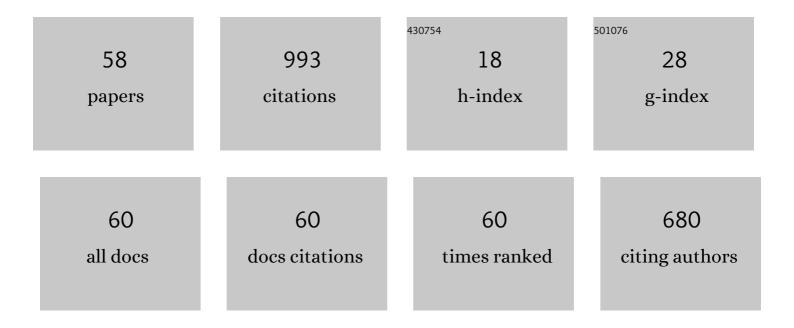
List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	A thermo-mechanical damage model for rock stiffness during anisotropic crack opening and closure. Acta Geotechnica, 2014, 9, 847-867.	2.9	61
2	Discrete element modeling of shielding and size effects during single particle crushing. Computers and Geotechnics, 2016, 78, 227-236.	2.3	59
3	Influence of damage on pore size distribution and permeability of rocks. International Journal for Numerical and Analytical Methods in Geomechanics, 2013, 37, 810-831.	1.7	53
4	DEM analysis on the role of aggregates on concrete strength. Computers and Geotechnics, 2020, 119, 103290.	2.3	51
5	Micro–macro approach of salt viscous fatigue under cyclic loading. Mechanics of Materials, 2016, 93, 13-31.	1.7	44
6	Î,-STOCK, a powerful tool of thermohydromechanical behaviour and damage modelling of unsaturated porous media. Computers and Geotechnics, 2008, 35, 890-915.	2.3	36
7	Thermoâ€hydroâ€mechanical modeling of damage in unsaturated porous media: Theoretical framework and numerical study of the EDZ. International Journal for Numerical and Analytical Methods in Geomechanics, 2012, 36, 272-306.	1.7	36
8	DEM modelling of sequential fragmentation of zeolite granules under oedometric compression based on XCT observations. Powder Technology, 2019, 347, 66-75.	2.1	36
9	Fluid-driven transition from damage to fracture in anisotropic porous media: a multi-scale XFEM approach. Acta Geotechnica, 2020, 15, 113-144.	2.9	36
10	A Model of Damage and Healing Coupling Halite Thermo-mechanical Behavior to Microstructure Evolution. Geotechnical and Geological Engineering, 2015, 33, 389-410.	0.8	31
11	Micro-macro mechanics of damage and healing in rocks. Open Geomechanics, 0, 2, 1-41.	0.0	29
12	Retention and permeability properties of damaged porous rocks. Computers and Geotechnics, 2013, 48, 272-282.	2.3	27
13	ANISOTROPIC DAMAGE MODELS FOR GEOMATERIALS: THEORETICAL AND NUMERICAL CHALLENGES. International Journal of Computational Methods, 2014, 11, 1342007.	0.8	26
14	Energy distribution during the quasi-static confined comminution of granular materials. Acta Geotechnica, 2018, 13, 1075-1083.	2.9	26
15	Anisotropic nonlocal damage model for materials with intrinsic transverse isotropy. International Journal of Solids and Structures, 2018, 139-140, 29-42.	1.3	25
16	On the definition of damage in time-dependent healing models for salt rock. Geotechnique Letters, 2012, 2, 67-71.	0.6	21
17	A fully coupled damage-plasticity model for unsaturated geomaterials accounting for the ductile–brittle transition in drying clayey soils. International Journal of Solids and Structures, 2016, 91, 102-114.	1.3	21
18	Computational model coupling mode II discrete fracture propagation with continuum damage zone evolution. International Journal for Numerical and Analytical Methods in Geomechanics, 2017, 41, 223-250.	1.7	21

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19	Micromechanics based discrete damage model with multiple non-smooth yield surfaces: Theoretical formulation, numerical implementation and engineering applications. International Journal of Damage Mechanics, 2018, 27, 611-639.	2.4	19
20	Numerical study of a thermo-hydro-mechanical damage model for unsaturated porous media. Annals of Solid and Structural Mechanics, 2010, 1, 59-78.	0.5	18
21	Tensile strength of calcite/HMWM and silica/HMWM interfaces: A Molecular Dynamics analysis. Construction and Building Materials, 2020, 251, 118925.	3.2	18
22	On damage modelling in unsaturated clay rocks. Physics and Chemistry of the Earth, 2008, 33, S407-S415.	1.2	16
23	Chemomechanical evolution of pore space in carbonate microstructures upon dissolution: Linking pore geometry to bulk elasticity. Journal of Geophysical Research: Solid Earth, 2015, 120, 6878-6894.	1.4	16
24	Discrete equivalent wing crack based damage model for brittle solids. International Journal of Solids and Structures, 2017, 110-111, 279-293.	1.3	16
25	Mechanisms of Anisotropy in Salt Rock Upon Microcrack Propagation. Rock Mechanics and Rock Engineering, 2020, 53, 3185-3205.	2.6	16
26	A thermodynamically consistent framework for saturated viscoplastic rock-materials subject to damage. Mechanics Research Communications, 2012, 45, 15-21.	1.0	15
27	Prediction of viscous cracking and cyclic fatigue of salt polycrystals using a joint-enriched finite element model. Mechanics of Materials, 2016, 103, 28-43.	1.7	14
28	Mineral Weathering and Bedrock Weakening: Modeling Microscale Bedrock Damage Under Biotite Weathering. Journal of Geophysical Research F: Earth Surface, 2019, 124, 2623-2646.	1.0	14
29	An isotropic self-consistent homogenization scheme for chemo-mechanical healing driven by pressure solution in halite. International Journal of Solids and Structures, 2019, 161, 96-110.	1.3	13
30	A mixed damage model for unsaturated porous media. Comptes Rendus - Mecanique, 2009, 337, 68-74.	2.1	12
31	Generalized stress variables in Continuum Damage Mechanics. Mechanics Research Communications, 2014, 60, 81-84.	1.0	12
32	Micro-Macro Analysis and Phenomenological Modelling of Salt Viscous Damage and Application to Salt Caverns. Rock Mechanics and Rock Engineering, 2015, 48, 2567-2580.	2.6	12
33	Mechanistic Analysis of Rock Damage Anisotropy and Rotation Around Circular Cavities. Rock Mechanics and Rock Engineering, 2015, 48, 2283-2299.	2.6	11
34	Analysis of unsaturated materials hydration incorporating the effect of thermo-osmotic flow. Geomechanics for Energy and the Environment, 2016, 6, 101-115.	1.2	11
35	Modeling root system growth around obstacles. Scientific Reports, 2020, 10, 15868.	1.6	10
36	XFEM to couple nonlocal micromechanics damage with discrete mode I cohesive fracture. Computer Methods in Applied Mechanics and Engineering, 2019, 357, 112617.	3.4	9

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37	Fracture-Induced Anisotropy of the Stress–Strain Response of Shale at Multiple Scales. International Journal of Geomechanics, 2017, 17, .	1.3	8
38	Nonlocal enrichment of a micromechanical damage model with tensile softening: Advantages and limitations. Computers and Geotechnics, 2018, 94, 196-206.	2.3	8
39	Substrate composition directs slime molds behavior. Scientific Reports, 2019, 9, 15444.	1.6	7
40	Self-consistent micromechanical approach for damage accommodation in rock-like polycrystalline materials. International Journal of Damage Mechanics, 2019, 28, 134-161.	2.4	7
41	Substrate and cell fusion influence on slime mold network dynamics. Scientific Reports, 2021, 11, 1498.	1.6	7
42	Imaging local soil kinematics during the first days of maize root growth in sand. Scientific Reports, 2021, 11, 22262.	1.6	7
43	Probabilistic optimization of a continuum mechanics model to predict differential stress-induced damage in claystone. International Journal of Rock Mechanics and Minings Sciences, 2014, 68, 136-149.	2.6	6
44	Micromechanical modeling for rateâ€dependent behavior of salt rock under cyclic loading. International Journal for Numerical and Analytical Methods in Geomechanics, 2021, 45, 28-44.	1.7	6
45	Coupled Brittle and Viscous Micromechanisms Produce Semibrittle Flow, Grainâ€Boundary Sliding, and Anelasticity in Saltâ€Rock. Journal of Geophysical Research: Solid Earth, 2021, 126, e2020JB021261.	1.4	6
46	Probabilistic calibration of a damage rock mechanics model. Geotechnique Letters, 2014, 4, 17-21.	0.6	5
47	Simulation of salt-cavity healing based on a micro–macro model of pressure solution. Petroleum Geoscience, 2019, 25, 251-257.	0.9	5
48	Bayesian paradigm to assess rock compression damage models. Environmental Geotechnics, 2015, 2, 155-165.	1.3	4
49	Fabric evolution and crack propagation in salt during consolidation and cyclic compression tests. Acta Geotechnica, 2021, 16, 1679-1697.	2.9	4
50	Finite Element model of concrete repaired by High Molecular Weight Methacrylate (HMWM). Engineering Structures, 2021, 233, 111860.	2.6	4
51	Anisotropy and Microcrack Propagation Induced by Weathering, Regional Stresses and Topographic Stresses. Journal of Geophysical Research: Solid Earth, 2022, 127, .	1.4	4
52	Modeling the Influence of Thermo-Mechanical Crack Opening and Closure on Rock Stiffness. , 2013, , .		3
53	USING A GEO-MECHANICAL DAMAGE MODEL TO ASSESS PERMEABILITY IN CRACKED POROUS MEDIA: INTERNAL LENGTH PARAMETER ISSUES. Special Topics and Reviews in Porous Media, 2012, 3, 69-77.	0.6	3
54	Self-consistent approach for modeling coupled elastic and visco-plastic processes induced by dislocation and pressure solution. International Journal of Solids and Structures, 2021, 238, 111376.	1.3	3

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55	Deformation and failure mechanisms of granular soil around pressurised shallow cavities. Geotechnique, 2023, 73, 265-280.	2.2	2
56	Assessing static liquefaction triggering considering fabric anisotropy effects under the ACST framework. Computers and Geotechnics, 2022, 148, 104796.	2.3	2
57	Molecular Dynamics Analysis of Silica/PMMA Interface Shear Behavior. Polymers, 2022, 14, 1039.	2.0	1
58	Homogenization of cemented soil stiffness and application to the study of arching effects between jet-grouted columns. KSCE Journal of Civil Engineering, 2014, 18, 2072-2079.	0.9	0