

# Ronaldo

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

73  
papers

3,545  
citations

36  
h-index

59  
g-index

75  
ext. papers

4,188  
ext. citations

4.3  
avg, IF

6.22  
L-index

#	Paper	IF	Citations
73	A continuum meshfree method for sandbox-style numerical modeling of accretionary and doubly vergent wedges. <i>Journal of Structural Geology</i> , <b>2021</b> , 153, 104466	3	3
72	Poroelastic coefficients for anisotropic single and double porosity media. <i>Acta Geotechnica</i> , <b>2021</b> , 16, 3013-3025	4.9	7
71	Anisotropic elastoplastic response of double-porosity media. <i>Computer Methods in Applied Mechanics and Engineering</i> , <b>2021</b> , 380, 113797	5.7	7
70	A macroelement stabilization for mixed finite element/finite volume discretizations of multiphase poromechanics. <i>Computational Geosciences</i> , <b>2021</b> , 25, 775-792	2.7	10
69	Mathematical modeling of consolidation in unsaturated poroelastic soils under fluid flux boundary conditions. <i>Journal of Hydrology</i> , <b>2021</b> , 595, 125671	6	1
68	Poroelastic theory of consolidation for a two-layer system with an upper unsaturated soil and a lower saturated soil under fully permeable boundary conditions. <i>Journal of Hydrology</i> , <b>2021</b> , 596, 125700	6	2
67	Preconditioners for multiphase poromechanics with strong capillarity. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , <b>2021</b> , 45, 1141-1168	4	3
66	Impacts of saturation-dependent anisotropy on the shrinkage behavior of clay rocks. <i>Acta Geotechnica</i> , <b>2021</b> , 16, 3381	4.9	3
65	Fault propagation and surface rupture in geologic materials with a meshfree continuum method. <i>Acta Geotechnica</i> , <b>2021</b> , 16, 2463-2486	4.9	6
64	Mechanisms of creep in shale from nanoscale to specimen scale. <i>Computers and Geotechnics</i> , <b>2021</b> , 136, 104138	4.4	4
63	Simulation of debris flow on an instrumented test slope using an updated Lagrangian continuum particle method. <i>Acta Geotechnica</i> , <b>2020</b> , 15, 2757-2777	4.9	15
62	A continuum framework for coupled solid deformation and fluid flow through anisotropic elastoplastic porous media. <i>Computer Methods in Applied Mechanics and Engineering</i> , <b>2020</b> , 369, 113225	5.7	26
61	Analytical solution of soil deformation and fluid pressure change for a two-layer system with an upper unsaturated soil and a lower saturated soil under external loading. <i>Journal of Hydrology</i> , <b>2020</b> , 588, 124997	6	10
60	Cam-Clay plasticity. Part IX: On the anisotropy, heterogeneity, and viscoplasticity of shale. <i>Computer Methods in Applied Mechanics and Engineering</i> , <b>2020</b> , 360, 112695	5.7	44
59	On the preferential flow patterns induced by transverse isotropy and non-Darcy flow in double porosity media. <i>Computer Methods in Applied Mechanics and Engineering</i> , <b>2019</b> , 353, 570-592	5.7	38
58	Deformation and Strength of Transversely Isotropic Rocks. <i>Springer Series in Geomechanics and Geoengineering</i> , <b>2019</b> , 237-241	0.1	2
57	On the strength of transversely isotropic rocks. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , <b>2018</b> , 42, 1917-1934	4	43

56	Continuum hydrodynamics of dry granular flows employing multiplicative elastoplasticity. <i>Acta Geotechnica</i> , <b>2018</b> , 13, 1027-1040	4.9	32
55	Quantifying the heterogeneity of shale through statistical combination of imaging across scales. <i>Acta Geotechnica</i> , <b>2017</b> , 12, 1193-1205	4.9	32
54	Thermoplasticity and strain localization in transversely isotropic materials based on anisotropic critical state plasticity. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , <b>2016</b> , 40, 2423-2449	4	77
53	Pore-scale modeling of deformation and shear band bifurcation in porous crystalline rocks. <i>International Journal for Numerical Methods in Engineering</i> , <b>2016</b> , 108, 183-212	2.4	30
52	Cam-Clay plasticity, Part VIII: A constitutive framework for porous materials with evolving internal structure. <i>Computer Methods in Applied Mechanics and Engineering</i> , <b>2016</b> , 309, 653-679	5.7	55
51	Hydromechanical Modeling of Unsaturated Flow in Double Porosity Media. <i>International Journal of Geomechanics</i> , <b>2016</b> , 16,	3.1	73
50	Stabilized mixed finite elements for deformable porous media with double porosity. <i>Computer Methods in Applied Mechanics and Engineering</i> , <b>2015</b> , 293, 131-154	5.7	66
49	On the pore-scale mechanisms leading to brittle and ductile deformation behavior of crystalline rocks. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , <b>2015</b> , 39, 1165-1187	4	34
48	Instrumented nanoindentation and 3D mechanistic modeling of a shale at multiple scales. <i>Acta Geotechnica</i> , <b>2015</b> , 10, 1-14	4.9	140
47	Mathematical framework for unsaturated flow in the finite deformation range. <i>International Journal for Numerical Methods in Engineering</i> , <b>2014</b> , 97, 658-682	2.4	86
46	Finite Deformation and Fluid Flow in Unsaturated Soils with Random Heterogeneity. <i>Vadose Zone Journal</i> , <b>2014</b> , 13, 1-11	2.7	40
45	Discrete micromechanics of elastoplastic crystals in the finite deformation range. <i>Computer Methods in Applied Mechanics and Engineering</i> , <b>2014</b> , 275, 234-263	5.7	14
44	Extended finite element framework for fault rupture dynamics including bulk plasticity. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , <b>2013</b> , 37, 3087-3111	4	26
43	Critical state plasticity. Part VII: Triggering a shear band in variably saturated porous media. <i>Computer Methods in Applied Mechanics and Engineering</i> , <b>2013</b> , 261-262, 66-82	5.7	53
42	Shear band in sand with spatially varying density. <i>Journal of the Mechanics and Physics of Solids</i> , <b>2013</b> , 61, 219-234	5	65
41	Factor of safety in a partially saturated slope inferred from hydro-mechanical continuum modeling. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , <b>2012</b> , 36, 236-248	4	52
40	Dynamics of unsaturated poroelastic solids at finite strain. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , <b>2012</b> , 36, 1535-1573	4	71
39	Multiphysics hillslope processes triggering landslides. <i>Acta Geotechnica</i> , <b>2012</b> , 7, 261-269	4.9	58

38	Computational Aspects of Elasto-Plastic Deformation in Polycrystalline Solids. <i>Journal of Applied Mechanics, Transactions ASME</i> , <b>2012</b> , 79,	2.7	13
37	Block-preconditioned Newton-Krylov solvers for fully coupled flow and geomechanics. <i>Computational Geosciences</i> , <b>2011</b> , 15, 647-659	2.7	74
36	Centrifuge model test on the face stability of shallow tunnel. <i>Acta Geotechnica</i> , <b>2011</b> , 6, 105-117	4.9	132
35	The impacts of hysteresis on variably saturated hydrologic response and slope failure. <i>Environmental Earth Sciences</i> , <b>2010</b> , 61, 1215-1225	2.9	48
34	Continuum deformation and stability analyses of a steep hillside slope under rainfall infiltration. <i>Acta Geotechnica</i> , <b>2010</b> , 5, 1-14	4.9	106
33	Finite deformation formulation for embedded frictional crack with the extended finite element method. <i>International Journal for Numerical Methods in Engineering</i> , <b>2010</b> , 82, 773-804	2.4	22
32	An extended finite element framework for slow-rate frictional faulting with bulk plasticity and variable friction. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , <b>2009</b> , 33, 1535-1560	4	30
31	Liquefaction potential of coastal slopes induced by solitary waves. <i>Acta Geotechnica</i> , <b>2009</b> , 4, 17-34	4.9	39
30	Estimating the impact force generated by granular flow on a rigid obstruction. <i>Acta Geotechnica</i> , <b>2009</b> , 4, 57-71	4.9	132
29	On the effective stress in unsaturated porous continua with double porosity. <i>Journal of the Mechanics and Physics of Solids</i> , <b>2009</b> , 57, 1182-1193	5	75
28	Coseismic sediment deformation during the 1989 Loma Prieta earthquake. <i>Journal of Geophysical Research</i> , <b>2008</b> , 113,		2
27	A contact algorithm for frictional crack propagation with the extended finite element method. <i>International Journal for Numerical Methods in Engineering</i> , <b>2008</b> , 76, 1489-1512	2.4	107
26	Assumed enhanced strain and the extended finite element methods: A unification of concepts. <i>Computer Methods in Applied Mechanics and Engineering</i> , <b>2008</b> , 197, 2789-2803	5.7	70
25	Stabilized low-order finite elements for coupled solid-deformation/fluid-diffusion and their application to fault zone transients. <i>Computer Methods in Applied Mechanics and Engineering</i> , <b>2008</b> , 197, 4353-4366	5.7	188
24	Continuum mathematical modeling of slip weakening in geological systems. <i>Journal of Geophysical Research</i> , <b>2007</b> , 112,		14
23	Mechanical aspects of thrust faulting driven by far-field compression and their implications for fold geometry. <i>Acta Geotechnica</i> , <b>2007</b> , 2, 17-31	4.9	27
22	Estimating inelastic sediment deformation from local site response simulations. <i>Acta Geotechnica</i> , <b>2007</b> , 2, 183-195	4.9	11
21	Quantifying sensitivity of local site response models to statistical variations in soil properties. <i>Acta Geotechnica</i> , <b>2006</b> , 1, 3-14	4.9	24

20	Conditions for instabilities in collapsible solids including volume implosion and compaction banding. <i>Acta Geotechnica</i> , <b>2006</b> , 1, 107-122	4.9	34
19	Condition for liquefaction instability in fluid-saturated granular soils. <i>Acta Geotechnica</i> , <b>2006</b> , 1, 211-224	4.9	61
18	Calculating the effective permeability of sandstone with multiscale lattice Boltzmann/finite element simulations. <i>Acta Geotechnica</i> , <b>2006</b> , 1, 195-209	4.9	61
17	Capturing strain localization in dense sands with random density. <i>International Journal for Numerical Methods in Engineering</i> , <b>2006</b> , 67, 1531-1564	2.4	82
16	On the mechanical energy and effective stress in saturated and unsaturated porous continua. <i>International Journal of Solids and Structures</i> , <b>2006</b> , 43, 1764-1786	3.1	159
15	Deformation Bands in Granular Media <b>2005</b> , 394		
14	Computational modeling of deformation bands in granular media. II. Numerical simulations. <i>Computer Methods in Applied Mechanics and Engineering</i> , <b>2004</b> , 193, 2699-2718	5.7	52
13	Computational modeling of deformation bands in granular media. I. Geological and mathematical framework. <i>Computer Methods in Applied Mechanics and Engineering</i> , <b>2004</b> , 193, 2667-2698	5.7	107
12	Cam-Clay plasticity. Part V: A mathematical framework for three-phase deformation and strain localization analyses of partially saturated porous media. <i>Computer Methods in Applied Mechanics and Engineering</i> , <b>2004</b> , 193, 5301-5338	5.7	196
11	Capturing strain localization behind a geosynthetic-reinforced soil wall. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , <b>2003</b> , 27, 425-451	4	10
10	Implicit J2-bounding surface plasticity using Prager's translation rule. <i>International Journal for Numerical Methods in Engineering</i> , <b>2002</b> , 55, 1129-1166	2.4	19
9	Finite element simulation of strain localization with large deformation: capturing strong discontinuity using a Petrov-Galerkin multiscale formulation. <i>Computer Methods in Applied Mechanics and Engineering</i> , <b>2002</b> , 191, 2949-2978	5.7	45
8	Bifurcation of elastoplastic solids to shear band mode at finite strain. <i>Computer Methods in Applied Mechanics and Engineering</i> , <b>2002</b> , 191, 5287-5314	5.7	83
7	Plane strain finite element analysis of pressure sensitive plasticity with strong discontinuity. <i>International Journal of Solids and Structures</i> , <b>2001</b> , 38, 3647-3672	3.1	83
6	Modelling non-linear ground response of non-liquefiable soils. <i>Earthquake Engineering and Structural Dynamics</i> , <b>2000</b> , 29, 63-83	4	27
5	A finite element model for strain localization analysis of strongly discontinuous fields based on standard Galerkin approximation. <i>Computer Methods in Applied Mechanics and Engineering</i> , <b>2000</b> , 190, 1529-1549	5.7	147
4	Modelling non-linear ground response of non-liquefiable soils <b>2000</b> , 29, 63		2
3	Generalized Creep and Stress Relaxation Model for Clays. <i>Journal of Geotechnical Engineering</i> , <b>1992</b> , 118, 1765-1786		33

2	Evolution of anisotropy with saturation and its implications for the elastoplastic responses of clay rocks. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> ,	4	2
1	A thermodynamically consistent quasi-double-porosity thermo-hydro-mechanical model for cell dehydration of plant tissues at subzero temperatures. <i>Archive of Applied Mechanics</i> ,1	2.2	