Antonio Gens

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10,782 230 52 101 h-index g-index citations papers 6.37 12,154 249 3.3 L-index avg, IF ext. papers ext. citations

#	Paper	IF	Citations
230	A constitutive model for partially saturated soils. <i>Geotechnique</i> , 1990 , 40, 405-430	3.4	1632
229	A framework for the behaviour of unsaturated expansive clays. <i>Canadian Geotechnical Journal</i> , 1992 , 29, 1013-1032	3.2	479
228	An elasto-plastic model for unsaturated soil incorporating the effects of suction and degree of saturation on mechanical behaviour. <i>Geotechnique</i> , 2003 , 53, 123-135	3.4	396
227	Numerical formulation for a simulator (CODE_BRIGHT) for the coupled analysis of saline media. <i>Engineering Computations</i> , 1996 , 13, 87-112	1.4	371
226	Modelling the mechanical behaviour of expansive clays. <i>Engineering Geology</i> , 1999 , 54, 173-183	6	369
225	Water permeability, water retention and microstructure of unsaturated compacted Boom clay. <i>Engineering Geology</i> , 1999 , 54, 117-127	6	353
224	Mechanical behaviour of heavily compacted bentonite under high suction changes. <i>Geotechnique</i> , 2003 , 53, 27-40	3.4	331
223	The development of a new hollow cylinder apparatus for investigating the effects of principal stress rotation in soils. <i>Geotechnique</i> , 1983 , 33, 355-383	3.4	321
222	Nonisothermal multiphase flow of brine and gas through saline media. <i>Transport in Porous Media</i> , 1994 , 15, 271-293	3.1	271
221	Soil@nvironment interactions in geotechnical engineering. <i>Geotechnique</i> , 2010 , 60, 3-74	3.4	261
220	A new modelling approach for unsaturated soils using independent stress variables. <i>Canadian Geotechnical Journal</i> , 2008 , 45, 511-534	3.2	215
219	A constitutive model for unsaturated soils: thermomechanical and computational aspects. <i>Computational Mechanics</i> , 2004 , 33, 453-465	4	213
218	Undrained anisotropy and principal stress rotation in saturated sand. <i>Geotechnique</i> , 1984 , 34, 11-27	3.4	154
217	A double structure generalized plasticity model for expansive materials. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2005 , 29, 751-787	4	152
216	On constitutive modelling of unsaturated soils. <i>Acta Geotechnica</i> , 2006 , 1, 137-147	4.9	144
215	THM-coupled finite element analysis of frozen soil: formulation and application. <i>Geotechnique</i> , 2009 , 59, 159-171	3.4	133
214	A full-scale in situ heating test for high-level nuclear waste disposal: observations, analysis and interpretation. <i>Geotechnique</i> , 2009 , 59, 377-399	3.4	133

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213	Finite element formulation and algorithms for unsaturated soils. Part I: Theory. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2003 , 27, 745-765	4	130	
212	Suction effects on a compacted clay under non-isothermal conditions. <i>Geotechnique</i> , 2003 , 53, 65-81	3.4	127	
211	Analysis of a full scale in situ test simulating repository conditions 1998 , 22, 515-548		122	
210	Interpretation of unsaturated soil behaviour in the stress Saturation space, I: Volume change and water retention behaviour. <i>Computers and Geotechnics</i> , 2012 , 43, 178-187	4.4	115	
209	Temperature effects on the hydraulic behaviour of an unsaturated clay. <i>Geotechnical and Geological Engineering</i> , 2001 , 19, 311-332	1.5	112	
208	In situ behaviour of a stiff layered clay subject to thermal loading: observations and interpretation. <i>Geotechnique</i> , 2007 , 57, 207-228	3.4	111	
207	Chemical impact on the hydro-mechanical behaviour of high-density FEBEX bentonite. <i>Physics and Chemistry of the Earth</i> , 2008 , 33, S516-S526	3	108	
206	Three-dimensional analysis of slides in cohesive soils. <i>Geotechnique</i> , 1988 , 38, 1-23	3.4	106	
205	An approach to enhance efficiency of DEM modelling of soils with crushable grains. <i>Geotechnique</i> , 2015 , 65, 91-110	3.4	105	
204	Compacted soil behaviour: initial state, structure and constitutive modelling. <i>Geotechnique</i> , 2013 , 63, 463-478	3.4	105	
203	Critical state models in computational geomechanics. <i>Engineering Computations</i> , 1988 , 5, 178-197	1.4	105	
202	Unsaturated soils: From constitutive modelling to numerical algorithms. <i>Computers and Geotechnics</i> , 2008 , 35, 810-824	4.4	96	
201	An interface element formulation for the analysis of soil-reinforcement interaction. <i>Computers and Geotechnics</i> , 1989 , 7, 133-151	4.4	95	
200	A critical assessment of methods of correcting for drift from the yield surface in elasto-plastic finite element analysis. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 1985 , 9, 149-159	4	95	
199	Influence of rainfall on the deformation and stability of a slope in overconsolidated clays: a case study. <i>Hydrogeology Journal</i> , 2003 , 11, 174-192	3.1	94	
198	Strain localisation and grain breakage in sand under shearing at high mean stress: insights from in situ X-ray tomography. <i>Acta Geotechnica</i> , 2015 , 10, 15-30	4.9	85	
197	Cone penetration tests in a virtual calibration chamber. <i>Geotechnique</i> , 2011 , 61, 525-531	3.4	85	
196	Hydromechanical behaviour of a heterogeneous compacted soil: experimental observations and modelling. <i>Geotechnique</i> , 2011 , 61, 367-386	3.4	82	

195	The soilmodels.info project. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2008 , 32, 1571-1572	4	81
194	Vapour Transport in Low Permeability Unsaturated Soils with Capillary Effects. <i>Transport in Porous Media</i> , 2000 , 40, 219-241	3.1	78
193	Estimation of parameters in geotechnical backanalysis []. Maximum likelihood approach. <i>Computers and Geotechnics</i> , 1996 , 18, 1-27	4.4	78
192	Coupled thermalflydrologicalfhechanical analyses of the Yucca Mountain Drift Scale Testflomparison of field measurements to predictions of four different numerical models. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2005 , 42, 680-697	6	77
191	Drained principal stress rotation in saturated sand. <i>Geotechnique</i> , 1988 , 38, 59-81	3.4	75
190	A constitutive model for rock joints formulation and numerical implementation. <i>Computers and Geotechnics</i> , 1990 , 9, 3-20	4.4	71
189	The role of structure in the chemically induced deformations of FEBEX bentonite. <i>Applied Clay Science</i> , 2003 , 23, 229-237	5.2	67
188	DEM modelling of cone penetration tests in a double-porosity crushable granular material. <i>Computers and Geotechnics</i> , 2016 , 73, 109-127	4.4	66
187	Interpretation of unsaturated soil behaviour in the stressBaturation space. <i>Computers and Geotechnics</i> , 2012 , 43, 111-123	4.4	63
186	Finite element formulation and algorithms for unsaturated soils. Part II: Verification and application. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2003 , 27, 767-	790	61
185	Multi-scale analysis of cone penetration test (CPT) in a virtual calibration chamber. <i>Canadian Geotechnical Journal</i> , 2014 , 51, 51-66	3.2	60
184	A chemo-mechanical constitutive model accounting for cation exchange in expansive clays. <i>Geotechnique</i> , 2013 , 63, 221-234	3.4	60
183	Experimental micromechanics: grain-scale observation of sand deformation. <i>Geotechnique Letters</i> , 2012 , 2, 107-112	1.7	59
182	Coupled Thermo-Hydro-Mechanical and Chemical Analysis of Expansive Clay Subjected to Heating and Hydration. <i>Transport in Porous Media</i> , 2007 , 66, 341-372	3.1	59
181	Estimation of parameters in geotechnical backanalysis [II. Application to a tunnel excavation problem. <i>Computers and Geotechnics</i> , 1996 , 18, 29-46	4.4	58
180	Factors controlling rockElay buffer interaction in a radioactive waste repository. <i>Engineering Geology</i> , 2002 , 64, 297-308	6	55
179	Numerical simulation of undrained insertion problems in geotechnical engineering with the Particle Finite Element Method (PFEM). <i>Computers and Geotechnics</i> , 2017 , 82, 144-156	4.4	53
178	Behaviour of a bentonite barrier in the laboratory: Experimental results up to 8years and numerical simulation. <i>Physics and Chemistry of the Earth</i> , 2008 , 33, S476-S485	3	52

177	PARAMETER AND VARIANCE ESTIMATION IN GEOTECHNICAL BACKANALYSIS USING PRIOR INFORMATION. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 1996 , 20, 119-141	4	51
176	Aznalclar dam failure. Part 2: Stability conditions and failure mechanism. <i>Geotechnique</i> , 2006 , 56, 185-2	0314	50
175	Fully Coupled Thermo-Hydro-Mechanical Double-Porosity Formulation for Unsaturated Soils. <i>International Journal of Geomechanics</i> , 2016 , 16,	3.1	49
174	Shear strength of rock joints influenced by compacted infill. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2014 , 70, 296-307	6	47
173	Grading evolution and critical state in a discrete numerical model of Fontainebleau sand. <i>Geotechnique</i> , 2019 , 69, 1-15	3.4	47
172	THM analysis of a large-scale heating test incorporating material fabric changes. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2012 , 36, 391-421	4	44
171	Aznalclar dam failure. Part 1: Field observations and material properties. <i>Geotechnique</i> , 2006 , 56, 165-1	8334	44
170	Coupled effective stress analysis of insertion problems in geotechnics with the Particle Finite Element Method. <i>Computers and Geotechnics</i> , 2018 , 101, 114-129	4.4	43
169	Evaluation of a constitutive model for clays and sands: Part II Etlay behaviour. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2002 , 26, 1123-1146	4	43
168	Simulation of cement-improved clay structures with a bonded elasto-plastic model: A practical approach. <i>Computers and Geotechnics</i> , 2012 , 45, 140-150	4.4	41
167	Precompression design for secondary settlement reduction. <i>Geotechnique</i> , 2000 , 50, 645-656	3.4	41
166	The effect of the plastic potential in boundary value problems involving plane strain deformation. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 1984 , 8, 259-286	4	40
165	A stress point algorithm for an elastoplastic model in unsaturated soils. <i>International Journal of Plasticity</i> , 2000 , 16, 121-141	7.6	38
164	Sand production simulation coupling DEM with CFD. <i>European Journal of Environmental and Civil Engineering</i> , 2014 , 18, 983-1008	1.5	35
163	Sphericity measures of sand grains. <i>Engineering Geology</i> , 2019 , 254, 43-53	6	34
162	Porosity variations in saline media caused by temperature gradients coupled to multiphase flow and dissolution/precipitation. <i>Transport in Porous Media</i> , 1996 , 25, 1-25	3.1	34
161	Artificial ground freezing of a volcanic ash: laboratory tests and modelling. <i>Environmental Geotechnics</i> , 2016 , 3, 141-154	1.2	31
160	Constitutive Laws 1995 , 129-158		30

159	Determination of the critical state of granular materials with triaxial tests. <i>Soils and Foundations</i> , 2017 , 57, 733-744	2.9	29
158	Performance of mixed formulations for the particle finite element method in soil mechanics problems. <i>Computational Particle Mechanics</i> , 2017 , 4, 269-284	3	29
157	Thermal Conductivity of Argillaceous Rocks: Determination Methodology Using In Situ Heating Tests. <i>Rock Mechanics and Rock Engineering</i> , 2014 , 47, 111-129	5.7	29
156	ThermalBydraulicBhechanical (THM) behaviour of a large-scale in situ heating experiment during cooling and dismantling. <i>Canadian Geotechnical Journal</i> , 2012 , 49, 1169-1195	3.2	28
155	Soil deformation around a penetrating cone in silt. <i>Geotechnique Letters</i> , 2013 , 3, 185-191	1.7	28
154	Implementation algorithm of a generalised plasticity model for swelling clays. <i>Computers and Geotechnics</i> , 2008 , 35, 860-871	4.4	28
153	A time-dependent anisotropic model for argillaceous rocks. Application to an underground excavation in Callovo-Oxfordian claystone. <i>Computers and Geotechnics</i> , 2017 , 85, 341-350	4.4	27
152	A constitutive model for crushed salt. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2002 , 26, 719-746	4	27
151	Modelling unsaturated soil behaviour during normal consolidation and at critical state. <i>Computers and Geotechnics</i> , 2008 , 35, 825-834	4.4	26
150	Analysis of tunnel excavation in London Clay incorporating soil structure. <i>Geotechnique</i> , 2012 , 62, 1095-		
1)0	Analysis of turnier excavation in London Clay incorporating soft structure. Geotechnique, 2012, 62, 1093-	-131409	24
149	The landslide of Cortes de Pallas, Spain. <i>Geotechnique</i> , 1993 , 43, 507-521	-131.499 3.4	24
149	The landslide of Cortes de Pallas, Spain. <i>Geotechnique</i> , 1993 , 43, 507-521 Low-order stabilized finite element for the full Biot formulation in soil mechanics at finite strain.	3.4	24
149	The landslide of Cortes de Pallas, Spain. <i>Geotechnique</i> , 1993 , 43, 507-521 Low-order stabilized finite element for the full Biot formulation in soil mechanics at finite strain. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2019 , 43, 1488-1515 Nonlocal plasticity modelling of strain localisation in stiff clays. <i>Computers and Geotechnics</i> , 2018 ,	3.4	24
149 148 147	The landslide of Cortes de Pallas, Spain. <i>Geotechnique</i> , 1993 , 43, 507-521 Low-order stabilized finite element for the full Biot formulation in soil mechanics at finite strain. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2019 , 43, 1488-1515 Nonlocal plasticity modelling of strain localisation in stiff clays. <i>Computers and Geotechnics</i> , 2018 , 103, 138-150 A numerical investigation of the incremental behavior of crushable granular soils. <i>International</i>	3.4	24 23 23
149 148 147	The landslide of Cortes de Pallas, Spain. <i>Geotechnique</i> , 1993 , 43, 507-521 Low-order stabilized finite element for the full Biot formulation in soil mechanics at finite strain. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2019 , 43, 1488-1515 Nonlocal plasticity modelling of strain localisation in stiff clays. <i>Computers and Geotechnics</i> , 2018 , 103, 138-150 A numerical investigation of the incremental behavior of crushable granular soils. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2016 , 40, 1773-1798	3.4	24232322
149 148 147 146	The landslide of Cortes de Pallas, Spain. <i>Geotechnique</i> , 1993 , 43, 507-521 Low-order stabilized finite element for the full Biot formulation in soil mechanics at finite strain. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2019 , 43, 1488-1515 Nonlocal plasticity modelling of strain localisation in stiff clays. <i>Computers and Geotechnics</i> , 2018 , 103, 138-150 A numerical investigation of the incremental behavior of crushable granular soils. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2016 , 40, 1773-1798 Clay barriers in radioactive waste disposal. <i>Revue Europanne De Gine Civil</i> , 2001 , 5, 845-856 Modelling thermo-hydro-mechano-chemical interactions for nuclear waste disposal. <i>Journal of Rock</i>	3.4 4 4.4 4	24 23 23 22 22

141	Aznalclar dam failure. Part 3: Dynamics of the motion. <i>Geotechnique</i> , 2006 , 56, 203-210	3.4	19
140	A hydro-geochemical analysis of the saturation process with salt water of a bentonite crushed granite rock mixture in an engineered nuclear barrier. <i>Engineering Geology</i> , 2005 , 81, 227-245	6	18
139	Double structure THM analyses of a heating test in a fractured tuff incorporating intrinsic permeability variations. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2005 , 42, 667-679	6	17
138	Analysis of the hydration of a bentonite seal in a deep radioactive waste repository. <i>Engineering Geology</i> , 2005 , 81, 317-328	6	17
137	A stable mesh-independent approach for numerical modelling of structured soils at large strains. <i>Computers and Geotechnics</i> , 2019 , 116, 103215	4.4	16
136	Breakage mechanisms of highly porous particles in 1D compression revealed by X-ray tomography. <i>Geotechnique Letters</i> , 2018 , 8, 155-160	1.7	16
135	Micromechanical inspection of incremental behaviour of crushable soils. <i>Acta Geotechnica</i> , 2019 , 14, 1337-1356	4.9	15
134	Temperature effects on the hydraulic behaviour of an unsaturated clay 2001 , 311-332		15
133	Efficiency of a borehole seal by means of pre-compacted bentonite blocks. <i>Physics and Chemistry of the Earth</i> , 2007 , 32, 123-134	3	14
132	Formulation of quasi-axisymmetric boundary value problems for finite element analysis. <i>Engineering Computations</i> , 1984 , 1, 144-150	1.4	14
131	Image-based calibration of rolling resistance in discrete element models of sand. <i>Computers and Geotechnics</i> , 2021 , 131, 103929	4.4	14
130	Thrust and torque components on mixed-face EPB drives. <i>Tunnelling and Underground Space Technology</i> , 2016 , 57, 47-54	5.7	13
129	A Mechanism Contributing to Subsidence Above Gas Reservoirs and its Application to a Case Study. International Journal for Computational Methods in Engineering Science and Mechanics, 2008 , 9, 270-287	0.7	13
128	A cross-anisotropic formulation for elasto-plastic models. <i>Geotechnique Letters</i> , 2016 , 6, 156-162	1.7	12
127	Homogenization in clay barriers and seals: Two case studies. <i>Journal of Rock Mechanics and Geotechnical Engineering</i> , 2013 , 5, 191-199	5.3	11
126	Applications of multiphysical geomechanics in underground nuclear waste storage. <i>European Journal of Environmental and Civil Engineering</i> , 2009 , 13, 937-962	1.5	11
125	Feasibility of constructing a full-scale radioactive high-level waste disposal cell and characterization of its thermo-hydro-mechanical behavior. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2021 , 137, 104555	6	11
124	Numerical analysis of suction embedded plate anchors in structured clay. <i>Applied Ocean Research</i> , 2016 , 61, 156-166	3.4	10

123	Identification of Bonded Clay Parameters in SBPM Tests: A Numerical Study. <i>Soils and Foundations</i> , 2009 , 49, 329-340	2.9	10
122	Homogeneity and Symmetry in DEM Models of Cone Penetration 2009,		10
121	THM and reactive transport analysis of expansive clay barrier in radioactive waste isolation. <i>Communications in Numerical Methods in Engineering</i> , 2006 , 22, 849-859		10
120	THM phenomena in saturated and unsaturated porous media. <i>Revue Europanne De Gaie Civil</i> , 2001 , 5, 693-717		10
119	Performance of the Opalinus Clay under thermal loading: experimental results from Mont Terri rock laboratory (Switzerland). <i>Swiss Journal of Geosciences</i> , 2017 , 110, 269-286	2.1	9
118	Analysis of hydro-mechanical processes in a ventilated tunnel in an argillaceous rock on the basis of different modelling approaches. <i>Journal of Rock Mechanics and Geotechnical Engineering</i> , 2013 , 5, 1-17	5.3	9
117	Coupled analysis of a backfill hydration test. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 1998 , 22, 1-27	4	8
116	Rock joints: FEM implementation and applications. <i>Studies in Applied Mechanics</i> , 1995 , 395-420		8
115	Evaluation of safety factors in discontinuous rock. <i>International Journal of Rock Mechanics and Mining Sciences</i> , 1996 , 33, 513-537		8
114	Suction effects on a compacted clay under non-isothermal conditions. <i>Geotechnique</i> , 2003 , 53, 65-81	3.4	8
113	Characterisation of the multi-scale fabric features of high plasticity clays. <i>Geotechnique Letters</i> , 2019 , 9, 361-368	1.7	8
112	Hydraulic conductivity from piezocone on-the-fly: a numerical evaluation. <i>Geotechnique Letters</i> , 2018 , 8, 268-277	1.7	8
111	Erratum to Interpretation of unsaturated soil behaviour in the stressBaturation space II: Constitutive relationships and validations II Computers and Geotechnics, 2012, 43, 177	4.4	7
110	Influence of Water Chemistry on the Swelling Capacity of a High-Density Bentonite 2006 , 962		7
109	Monitoring and modeling of slope response to climate changes 2008 , 67-84		7
108	Beacon: bentonite mechanical evolution. <i>EPJ Nuclear Sciences & Technologies</i> , 2020 , 6, 23	1	7
107	Analysis of unsaturated materials hydration incorporating the effect of thermo-osmotic flow. <i>Geomechanics for Energy and the Environment</i> , 2016 , 6, 101-115	3.7	7
106	Relative performance of two unsaturated soil models using different constitutive variables. <i>Canadian Geotechnical Journal</i> , 2014 , 51, 1423-1437	3.2	6

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105	Wear and abrasivity: observations from EPB drives in mixed soft Irock sections. <i>Geomechanik Und Tunnelbau</i> , 2015 , 8, 258-264	0.6	6
104	Sensitivity to damping in sand production DEM-CFD coupled simulations 2013 ,		6
103	Reply to the discussion by Zhang and Lytton on A new modelling approach for unsaturated soils using independent stress variables Appears in Canadian Geotechnical Journal, 45(12): 1784 1787 <i>Canadian Geotechnical Journal</i> , 2008 , 45, 1788-1794	3.2	6
102	Highly selective formation of aldehydes in the hydrogenation of the corresponding acid chlorides with silica-supported palladium catalysts prepared by a complexing agent-assisted solgel method. <i>Applied Catalysis A: General</i> , 2002 , 229, 175-180	5.1	6
101	Particle failure in DEM models of crushable soil response 2014 , 345-350		6
100	Hybrid multi-scale model for partially saturated media based on a pore network approach and lattice Boltzmann method. <i>Advances in Water Resources</i> , 2020 , 144, 103709	4.7	6
99	Conceptual uncertainties in modelling the interaction between engineered and natural barriers of nuclear waste repositories in crystalline rocks. <i>Geological Society Special Publication</i> , 2019 , 482, 261-283	3 ^{1.7}	5
98	Steady state of solid-grain interfaces during simulated CPT. <i>Studia Geotechnica Et Mechanica</i> , 2013 , 35, 13-22	1	5
97	Heating pulse tests under constant volume on Boom clay. <i>Journal of Rock Mechanics and Geotechnical Engineering</i> , 2010 , 2, 124-128	5.3	5
96	A Constitutive Model that Incorporates the Effect of Suction in Cemented Geological Materials 2006 , 1944		5
95	Explicit finite deformation stress integration of the elasto-plastic constitutive equations 2014 , 267-272		5
94	Analysis of cone penetration in brittle liquefiable soils. <i>Computers and Geotechnics</i> , 2021 , 134, 104123	4.4	5
93	HM and THM interactions in bentonite engineered barriers for nuclear waste disposal. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2021 , 137, 104572	6	5
92	Analysis of the Expansive Clay Hydration under Low Hydraulic Gradient 2007 , 309-318		5
91	Micro-scale investigation of unsaturated sand in mini-triaxial shearing using X-ray CT. <i>Geotechnique Letters</i> , 2019 , 9, 269-277	1.7	4
90	A pressuremeter-based evaluation of structure in London Clay using a kinematic hardening constitutive model. <i>Acta Geotechnica</i> , 2020 , 15, 2089-2101	4.9	4
89	Numerical simulation of the undrained stability of slopes in anisotropic fine-grained soils. <i>Geomechanics and Geoengineering</i> , 2019 , 14, 18-29	1.4	4
88	Thermo-hydro-mechanical model of the Canister Retrieval Test. <i>Physics and Chemistry of the Earth</i> , 2011 , 36, 1806-1816	3	4

87	Effect of thermo-coupled processes on the behaviour of a clay barrier submitted to heating and hydration. <i>Anais Da Academia Brasileira De Ciencias</i> , 2010 , 82, 153-68	1.4	4
86	Hydro-mechanical behaviour of a clayey silt under isotropic compression 2005 , 331-342		4
85	THMC coupling in partially saturated geomaterials. Revue Europenne De Gaie Civil, 2005, 9, 747-765		4
84	Linking shape and rotation of grains during triaxial compression of sand. <i>Granular Matter</i> , 2020 , 22, 1	2.6	4
83	Modelling gas flow in clay materials incorporating material heterogeneity and embedded fractures. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2020 , 136, 104524	6	4
82	Energy balance analyses during Standard Penetration Tests in a virtual calibration chamber. <i>Computers and Geotechnics</i> , 2021 , 133, 104040	4.4	4
81	A full-scale in situ heating test in Callovo-Oxfordian claystone: observations, analysis and interpretation. <i>Computers and Geotechnics</i> , 2021 , 133, 104045	4.4	4
80	Increasing understanding and confidence in THM simulations of Engineered Barrier Systems. <i>Environmental Geotechnics</i> , 2020 , 7, 59-71	1.2	4
79	Analysis of the Thmc Behaviour of Compacted Swelling Clay for Radioactive Waste Isolation. <i>Elsevier Geo-Engineering Book Series</i> , 2004 , 2, 317-322		3
78	Coupled phenomena induced by freezing in a granular material 2013 , 467-473		3
77	Abrasivity measures on geotechnical materials of the Barcelona area 2014 , 345-350		3
76	Marchetti Flat Dilatometer Tests in a Virtual Calibration Chamber. <i>Geotechnical Testing Journal</i> , 2018 , 41, 20170370	1.3	3
75	Exploring ice content on partially saturated frozen soils using dielectric permittivity and bulk electrical conductivity measurements. <i>E3S Web of Conferences</i> , 2016 , 9, 07005	0.5	3
74	An effective combined framework for modelling the time-dependent behaviour of soft structured clays. <i>Acta Geotechnica</i> , 2021 , 16, 535-550	4.9	3
73	Microstructural Changes Underlying the Macro-response of a Stiff Clay. <i>Trends in Mathematics</i> , 2018 , 89-97	0.3	3
72	On the Stability of Underground Caves in Calcareous Rocks Due to Long-Term Weathering. <i>Rock Mechanics and Rock Engineering</i> , 2020 , 53, 3885-3901	5.7	2
71	DEM Investigation of Particle Crushing Effects on Static and Dynamic Penetration Tests. <i>Springer Series in Geomechanics and Geoengineering</i> , 2018 , 274-278	0.1	2
70	Freezing-thawing tests on natural pyroclastic samples 2014 , 1689-1694		2

69	Evaluation of a constitutive model for unsaturated soils 2010 , 829-836		2
68	THM Analysis of a Heating Test in a Fractured Tuff. Elsevier Geo-Engineering Book Series, 2004, 2, 181-186		2
67	Water retention properties of Boom clay 2008 , 229-234		2
66	DEM modelling of dynamic penetration in granular material 2018 , 415-418		2
65	Three-dimensional analysis of penetration problems using G-PFEM 2018 , 643-650		2
64	Response of a saturated mudstone under excavation and thermal loading 2006 , 35-44		2
63	Mapping deformation during CPT in a virtual calibration chamber 2010 , 559-564		2
62	Thermo-Hydraulic Behaviour of Boom Clay Using a Heating Cell: An Experimental Study. <i>Springer Series in Geomechanics and Geoengineering</i> , 2013 , 163-168	0.1	2
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