

Antonio Gens

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.

230
papers

10,782
citations

52
h-index

101
g-index

249
ext. papers

12,154
ext. citations

3.3
avg, IF

6.37
L-index

#	Paper	IF	Citations
230	Scott William Sloan 1954-2019. <i>Historical Records of Australian Science</i> , 2022 , 33, 64-71	0.2	
229	Geotechnical particle finite element method for modeling of soil-structure interaction under large deformation conditions. <i>Journal of Rock Mechanics and Geotechnical Engineering</i> , 2022 ,	5.3	1
228	The mechanical properties of a high plasticity expansive clay. <i>Engineering Geology</i> , 2022 , 303, 106647	6	0
227	Image-based calibration of rolling resistance in discrete element models of sand. <i>Computers and Geotechnics</i> , 2021 , 131, 103929	4.4	14
226	A contact model for rough crushable sand. <i>Soils and Foundations</i> , 2021 , 61, 798-798	2.9	2
225	Energy balance analyses during Standard Penetration Tests in a virtual calibration chamber. <i>Computers and Geotechnics</i> , 2021 , 133, 104040	4.4	4
224	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
223	Analysis of cone penetration in brittle liquefiable soils. <i>Computers and Geotechnics</i> , 2021 , 134, 104123	4.4	5
222	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
221	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
220	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
219	DEM examination of SPT correction factors. <i>EPJ Web of Conferences</i> , 2021 , 249, 14017	0.3	
218	A Nonlocal Elasto-Plastic Model for Structured Soils at Large Strains for the Particle Finite Element Method. <i>Lecture Notes in Civil Engineering</i> , 2021 , 544-551	0.3	
217	Effect of thermo-hydro-mechanical coupling on the evolution of stress in the concrete liner of an underground drift in the Cigb project. <i>IOP Conference Series: Earth and Environmental Science</i> , 2021 , 833, 012200	0.3	0
216	Numerical integration of an elasto-plastic critical state model for soils under unsaturated conditions. <i>Computers and Geotechnics</i> , 2021 , 137, 104299	4.4	1
215	Analysis of the process of compaction movements of deposits of crushed salt tailings. <i>Engineering Geology</i> , 2021 , 293, 106290	6	1
214	Coupled solid-fluid response of deep tunnels excavated in saturated rock masses with a time-dependent plastic behaviour. <i>Applied Mathematical Modelling</i> , 2021 , 100, 508-535	4.5	1

213	Benchmark cases for a multi-component Lattice-Boltzmann method in hydrostatic conditions. <i>MethodsX</i> , 2020 , 7, 101090	1.9	1
212	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
211	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
210	Temperature effects on water retention and water permeability of an unsaturated clay 2020 , 433-438		1
209	Towards higher temperatures in nuclear waste repositories. <i>E3S Web of Conferences</i> , 2020 , 205, 01001	0.5	1
208	Linking shape and rotation of grains during triaxial compression of sand. <i>Granular Matter</i> , 2020 , 22, 1	2.6	4
207	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
206	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
205	Beacon: bentonite mechanical evolution. <i>EPJ Nuclear Sciences & Technologies</i> , 2020 , 6, 23	1	7
204	Increasing understanding and confidence in THM simulations of Engineered Barrier Systems. <i>Environmental Geotechnics</i> , 2020 , 7, 59-71	1.2	4
203	Scott William Sloan. <i>Geotechnique</i> , 2020 , 70, 1174-1175	3.4	
202	High resolution incremental stress testing of crushable granular materials. <i>E3S Web of Conferences</i> , 2019 , 92, 14009	0.5	
201	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	1.7	5
200	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
199	Micromechanical inspection of incremental behaviour of crushable soils. <i>Acta Geotechnica</i> , 2019 , 14, 1337-1356	4.9	15
198	Clays in natural and engineered barriers for nuclear waste disposal. <i>Geomechanics for Energy and the Environment</i> , 2019 , 17, 1-2	3.7	1
197	Standard penetration testing in a virtual calibration chamber. <i>Computers and Geotechnics</i> , 2019 , 111, 277-289	4.4	19
196	Sphericity measures of sand grains. <i>Engineering Geology</i> , 2019 , 254, 43-53	6	34

195	Reply to the Discussion on Coupled effective stress analysis of insertion problems in geotechnics with the Particle Finite Element method <i>Computers and Geotechnics</i> , 2019 , 109, 290-292	4.4	
194	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	4	23
193	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
192	Geomechanics of Shale Repositories. <i>Geophysical Monograph Series</i> , 2019 , 99-123	1.1	
191	Coupled Thermal-Hydraulic-Mechanical and Chemical Modeling of Clayed Rocks. <i>Geophysical Monograph Series</i> , 2019 , 69-82	1.1	0
190	Finite element analysis for the safety evaluation of a dam on a fractured rock foundation 2019 , 3-12		1
189	Characterisation of the multi-scale fabric features of high plasticity clays. <i>Geotechnique Letters</i> , 2019 , 9, 361-368	1.7	8
188	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
187	SDMT-Based Numerical Analyses of Deep Excavation in Soft Soil. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2019 , 145, 04018102	3.4	2
186	Effects of particle breakage and stress reversal on the behaviour of sand around displacement piles. <i>Geotechnique</i> , 2019 , 69, 1029-1030	3.4	
185	Grading evolution and critical state in a discrete numerical model of Fontainebleau sand. <i>Geotechnique</i> , 2019 , 69, 1-15	3.4	47
184	On the choice of stress-strain variables for unsaturated soils and its effect on plastic flow. <i>Geomechanics for Energy and the Environment</i> , 2018 , 15, 3-9	3.7	1
183	Discrete Simulation of Cone Penetration in Granular Materials. <i>Computational Methods in Applied Sciences (Springer)</i> , 2018 , 95-111	0.4	0
182	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
181	Nonlocal plasticity modelling of strain localisation in stiff clays. <i>Computers and Geotechnics</i> , 2018 , 103, 138-150	4.4	23
180	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
179	DEM modelling of dynamic penetration in granular material 2018 , 415-418		2
178	Three-dimensional analysis of penetration problems using G-PFEM 2018 , 643-650		2

177	Marchetti Flat Dilatometer Tests in a Virtual Calibration Chamber. <i>Geotechnical Testing Journal</i> , 2018 , 41, 20170370	1.3	3
176	Performance of the Opalinus Clay under thermal loading: experimental results from Mont Terri rock laboratory (Switzerland). <i>Swiss Journal of Geosciences Supplement</i> , 2018 , 271-288		
175	Hydro-mechanical modelling of an unsaturated seal structure 2018 , 757-763		
174	Microstructural Changes Underlying the Macro-response of a Stiff Clay. <i>Trends in Mathematics</i> , 2018 , 89-97	0.3	3
173	Hydraulic conductivity from piezocone on-the-fly: a numerical evaluation. <i>Geotechnique Letters</i> , 2018 , 8, 268-277	1.7	8
172	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
171	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
170	Modelling the Mechanical Behaviour of Callovo-Oxfordian Argillite. Formulation and Application. <i>Springer Series in Geomechanics and Geoengineering</i> , 2017 , 37-44	0.1	1
169	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
168	Determination of the critical state of granular materials with triaxial tests. <i>Soils and Foundations</i> , 2017 , 57, 733-744	2.9	29
167	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
166	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
165	Thermomechanical modelling of the behaviour of drifts in rock salt 2017 , 185-194		
164	Numerical analysis of suction embedded plate anchors in structured clay. <i>Applied Ocean Research</i> , 2016 , 61, 156-166	3.4	10
163	Fully Coupled Thermo-Hydro-Mechanical Double-Porosity Formulation for Unsaturated Soils. <i>International Journal of Geomechanics</i> , 2016 , 16,	3.1	49
162	Anisotropic behaviour of compacted clayey silt subjected to hydromechanical paths. <i>E3S Web of Conferences</i> , 2016 , 9, 14021	0.5	1
161	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	4	22
160	Thrust and torque components on mixed-face EPB drives. <i>Tunnelling and Underground Space Technology</i> , 2016 , 57, 47-54	5.7	13

159	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
158	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
157	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
156	Artificial ground freezing of a volcanic ash: laboratory tests and modelling. <i>Environmental Geotechnics</i> , 2016 , 3, 141-154	1.2	31
155	A cross-anisotropic formulation for elasto-plastic models. <i>Geotechnique Letters</i> , 2016 , 6, 156-162	1.7	12
154	An approach to enhance efficiency of DEM modelling of soils with crushable grains. <i>Geotechnique</i> , 2015 , 65, 91-110	3.4	105
153	Wear and abrasivity: observations from EPB drives in mixed soft rock sections. <i>Geomechanik Und Tunnelbau</i> , 2015 , 8, 258-264	0.6	6
152	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
151	Relative performance of two unsaturated soil models using different constitutive variables. <i>Canadian Geotechnical Journal</i> , 2014 , 51, 1423-1437	3.2	6
150	Sand production simulation coupling DEM with CFD. <i>European Journal of Environmental and Civil Engineering</i> , 2014 , 18, 983-1008	1.5	35
149	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
148	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
147	A chemo-mechanical constitutive model accounting for cation exchange in expansive clays 2014 , 18-31		1
146	Freezing-thawing tests on natural pyroclastic samples 2014 , 1689-1694		2
145	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
144	Abrasivity measures on geotechnical materials of the Barcelona area 2014 , 345-350		3
143	Particle failure in DEM models of crushable soil response 2014 , 345-350		6
142	Probing DEM specimen heterogeneity by simulated CPT 2014 , 547-552		1

141	Hybrid minimization algorithm applied to tunnel back analysis 2014 , 1247-1252		1
140	Explicit finite deformation stress integration of the elasto-plastic constitutive equations 2014 , 267-272		5
139	Laboratory X-ray Tomography: A Valuable Experimental Tool for Revealing Processes in Soils. <i>Geotechnical Testing Journal</i> , 2014 , 38, 20140060	1.3	20
138	EPB tunnelling in mixed geological formations: A case study 2014 , 539-544		
137	Compacted soil behaviour: initial state, structure and constitutive modelling. <i>Geotechnique</i> , 2013 , 63, 463-478	3.4	105
136	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
135	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
134	Excavation Damage Zone at High Depths: Field Cases and Coupled Analysis. <i>Springer Series in Geomechanics and Geoengineering</i> , 2013 , 363-366	0.1	
133	A chemo-mechanical constitutive model accounting for cation exchange in expansive clays. <i>Geotechnique</i> , 2013 , 63, 221-234	3.4	60
132	Steady state of solid-grain interfaces during simulated CPT. <i>Studia Geotechnica Et Mechanica</i> , 2013 , 35, 13-22	1	5
131	Soil deformation around a penetrating cone in silt. <i>Geotechnique Letters</i> , 2013 , 3, 185-191	1.7	28
130	Sensitivity to damping in sand production DEM-CFD coupled simulations 2013 ,		6
129	Coupled thermo-hydraulic pulse tests on two reference Belgian clay formations 2013 , 413-417		1
128	Coupled phenomena induced by freezing in a granular material 2013 , 467-473		3
127	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
126	Coupled modelling of barriers for radioactive waste disposal 2013 , 21-34		
125	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
124	Analysis of tunnel excavation in London Clay incorporating soil structure. <i>Geotechnique</i> , 2012 , 62, 1095-1109	1.7	24

123	Experimental micromechanics: grain-scale observation of sand deformation. <i>Geotechnique Letters</i> , 2012 , 2, 107-112	1.7	59
122	Thermo-hydro-mechanical (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
121	Modelling Compacted Soil Behaviour Including Microstructural Features 2012 , 119-127		1
120	Interpretation of unsaturated soil behaviour in the stress-saturation space. <i>Computers and Geotechnics</i> , 2012 , 43, 111-123	4.4	63
119	Erratum to Interpretation of unsaturated soil behaviour in the stress-saturation space II: Constitutive relationships and validations <i>Computers and Geotechnics</i> , 2012 , 43, 177	4.4	7
118	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
117	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
116	COUPLED ANALYSIS OF DOUBLE POROSITY SWELLING CLAYS. <i>Springer Series in Geomechanics and Geoengineering</i> , 2011 , 85-88	0.1	1
115	Thermo-hydro-mechanical model of the Canister Retrieval Test. <i>Physics and Chemistry of the Earth</i> , 2011 , 36, 1806-1816	3	4
114	Hydromechanical behaviour of a heterogeneous compacted soil: experimental observations and modelling. <i>Geotechnique</i> , 2011 , 61, 367-386	3.4	82
113	Cone penetration tests in a virtual calibration chamber. <i>Geotechnique</i> , 2011 , 61, 525-531	3.4	85
112	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
111	Soil-environment interactions in geotechnical engineering. <i>Geotechnique</i> , 2010 , 60, 3-74	3.4	261
110	Modelling thermo-hydro-mechano-chemical interactions for nuclear waste disposal. <i>Journal of Rock Mechanics and Geotechnical Engineering</i> , 2010 , 2, 97-102	5.3	20
109	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
108	Evaluation of a constitutive model for unsaturated soils 2010 , 829-836		2
107	THMC analysis of saturation and heating processes of an expansive clay barrier in radioactive waste isolation 2010 , 1389-1393		1
106	Mapping deformation during CPT in a virtual calibration chamber 2010 , 559-564		2

105	Identification of Bonded Clay Parameters in SBPM Tests: A Numerical Study. <i>Soils and Foundations</i> , 2009 , 49, 329-340	2.9	10
104	THM-coupled finite element analysis of frozen soil: formulation and application. <i>Geotechnique</i> , 2009 , 59, 159-171	3.4	133
103	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
102	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
101	Reply to Comments on Unsaturated soils: From constitutive modelling to numerical algorithms by Daichao Sheng, Antonio Gens, Delwyn G. Fredlund and Scott W. Sloan [Computers and Geotechnics 35(6) (2008) 810-824] by Jingshuang Li, Yichuan Xing and Yujing Hou. <i>Computers and Geotechnics</i> , 2009 , 36, 1100	4.4	
100	Homogeneity and Symmetry in DEM Models of Cone Penetration 2009 ,		10
99	Behaviour of a bentonite barrier in the laboratory: Experimental results up to 8 years and numerical simulation. <i>Physics and Chemistry of the Earth</i> , 2008 , 33, S476-S485	3	52
98	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
97	A new modelling approach for unsaturated soils using independent stress variables. <i>Canadian Geotechnical Journal</i> , 2008 , 45, 511-534	3.2	215
96	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
95	A Mechanism Contributing to Subsidence Above Gas Reservoirs and its Application to a Case Study. <i>International Journal for Computational Methods in Engineering Science and Mechanics</i> , 2008 , 9, 270-287	0.7	13
94	Swelling pressure in compacted bentonite 2008 , 667-673		
93	Developments in modelling the generalised behaviour of unsaturated soils 2008 , 53-61		1
92	Implementation algorithm of a generalised plasticity model for swelling clays. <i>Computers and Geotechnics</i> , 2008 , 35, 860-871	4.4	28
91	Modelling unsaturated soil behaviour during normal consolidation and at critical state. <i>Computers and Geotechnics</i> , 2008 , 35, 825-834	4.4	26
90	Unsaturated soils: From constitutive modelling to numerical algorithms. <i>Computers and Geotechnics</i> , 2008 , 35, 810-824	4.4	96
89	The soilmodels.info project. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2008 , 32, 1571-1572	4	81
88	Water retention properties of Boom clay 2008 , 229-234		2

87	Monitoring and modeling of slope response to climate changes 2008 , 67-84		7
86	A thermomechanical framework for modeling the response of unsaturated soils 2008 , 547-552		
85	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
84	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
83	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
82	The effect of structure in pressuremeter tests in clay 2007 ,		1
81	Analysis of the Expansive Clay Hydration under Low Hydraulic Gradient 2007 , 309-318		5
80	On constitutive modelling of unsaturated soils. <i>Acta Geotechnica</i> , 2006 , 1, 137-147	4.9	144
79	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
78	A Constitutive Model that Incorporates the Effect of Suction in Cemented Geological Materials 2006 , 1944		5
77	Aznalcollar dam failure. Part 1: Field observations and material properties. <i>Geotechnique</i> , 2006 , 56, 165-183	3.4	44
76	Aznalcollar dam failure. Part 2: Stability conditions and failure mechanism. <i>Geotechnique</i> , 2006 , 56, 185-203	3.4	50
75	Influence of Water Chemistry on the Swelling Capacity of a High-Density Bentonite 2006 , 962		7
74	Aznalcollar dam failure. Part 3: Dynamics of the motion. <i>Geotechnique</i> , 2006 , 56, 203-210	3.4	19
73	Response of a saturated mudstone under excavation and thermal loading 2006 , 35-44		2
72	New data about surface subsidence above gas reservoirs. <i>Revue Européenne De Génie Civil</i> , 2005 , 9, 817-825		1
71	Hydro-mechanical behaviour of a clayey silt under isotropic compression 2005 , 331-342		4
70	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

69	Coupled thermal-hydrological-mechanical analyses of the Yucca Mountain Drift Scale Test. Comparison 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
68	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
67	Analysis of the hydration of a bentonite seal in a deep radioactive waste repository. <i>Engineering Geology</i> , 2005 , 81, 317-328	6	17
66	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
65	THMC coupling in partially saturated geomaterials. <i>Revue Européenne De Génie Civil</i> , 2005 , 9, 747-765		4
64	THM Analysis of a Heating Test in a Fractured Tuff. <i>Elsevier Geo-Engineering Book Series</i> , 2004 , 2, 181-186		2
63	Coupled Analysis of Damage Formation Around Wellbores. <i>Elsevier Geo-Engineering Book Series</i> , 2004 , 2, 599-604		
62	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
61	A constitutive model for unsaturated soils: thermomechanical and computational aspects. <i>Computational Mechanics</i> , 2004 , 33, 453-465	4	213
60	Experimental study on the hydro-mechanical behaviour of a silty clay 2004 , 15-29		
59	Modelling the THM behaviour of unsaturated expansive soils using a double-structure formulation 2004 , 107-120		
58	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
57	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
56	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
55	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	4	61
54	Mechanical behaviour of heavily compacted bentonite under high suction changes. <i>Geotechnique</i> , 2003 , 53, 27-40	3.4	331
53	Suction effects on a compacted clay under non-isothermal conditions. <i>Geotechnique</i> , 2003 , 53, 65-81	3.4	127
52	The role of structure in the chemically induced deformations of FEBEX bentonite. <i>Applied Clay Science</i> , 2003 , 23, 229-237	5.2	67

51	Monitoring a preload test on soft ground 2003 , 53-59		1
50	Suction effects on a compacted clay under non-isothermal conditions. <i>Geotechnique</i> , 2003 , 53, 65-81	3.4	8
49	A constitutive model for crushed salt. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2002 , 26, 719-746	4	27
48	Evaluation of a constitutive model for clays and sands: Part II Clay behaviour. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2002 , 26, 1123-1146	4	43
47	Highly selective formation of aldehydes in the hydrogenation of the corresponding acid chlorides with silica-supported palladium catalysts prepared by a complexing agent-assisted sol-gel method. <i>Applied Catalysis A: General</i> , 2002 , 229, 175-180	5.1	6
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