

Lyesse Laloui

List of Publications by Year in descending order

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Version: 2024-02-01

236
papers

9,632
citations

38660

50
h-index

46693

89
g-index

263
all docs

263
docs citations

263
times ranked

3481
citing authors

#	ARTICLE	IF	CITATIONS
1	An experimental investigation challenging the thermal collapse of sand. <i>Geotechnique</i> , 2024, 74, 296-306.	2.2	4
2	Heat exchange potential of energy tunnels for different internal airflow characteristics. <i>Geomechanics for Energy and the Environment</i> , 2022, 30, 100229.	1.2	10
3	Early-stage thermal performance design of thermo-active walls implemented in underground infrastructures. <i>Geomechanics for Energy and the Environment</i> , 2022, 30, 100218.	1.2	5
4	Experimental analysis of a thermoactive underground railway station. <i>Geomechanics for Energy and the Environment</i> , 2022, 29, 100275.	1.2	7
5	Geomechanics for energy and the environment: Current developments. <i>Geomechanics for Energy and the Environment</i> , 2022, 32, 100345.	1.2	1
6	Stresses and deformations induced by geothermal operations of energy tunnels. <i>Tunnelling and Underground Space Technology</i> , 2022, 124, 104438.	3.0	8
7	Failure mechanism of fine-grained soil-structure interface for energy piles. <i>Soils and Foundations</i> , 2022, 62, 101152.	1.3	8
8	Transient dynamics of the thermally induced deformation of sands. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2022, 46, 1972-1988.	1.7	3
9	Evaluating CO2 breakthrough in a shaly caprock material: a multi-scale experimental approach. <i>Scientific Reports</i> , 2022, 12, .	1.6	5
10	Thermally induced deformation of soils: A critical overview of phenomena, challenges and opportunities. <i>Geomechanics for Energy and the Environment</i> , 2021, 25, 100193.	1.2	22
11	A generalized water retention model with soil fabric evolution. <i>Geomechanics for Energy and the Environment</i> , 2021, 25, 100205.	1.2	15
12	Benchmark study of undrained triaxial testing of Opalinus Clay shale: Results and implications for robust testing. <i>Geomechanics for Energy and the Environment</i> , 2021, 25, 100210.	1.2	22
13	Experimental and numerical investigation of the thermo-mechanical behaviour of an energy sheet pile wall. <i>Geomechanics for Energy and the Environment</i> , 2021, 25, 100208.	1.2	16
14	Hydrothermal interactions in energy walls. <i>Underground Space (China)</i> , 2021, 6, 173-184.	3.4	11
15	Microstructure observations in compacted clays subjected to thermal loading. <i>Engineering Geology</i> , 2021, 287, 105928.	2.9	19
16	Experimental investigation of energy piles: From laboratory to field testing. <i>Geomechanics for Energy and the Environment</i> , 2021, 27, 100214.	1.2	26
17	Thermal stress analysis of energy piles. <i>Geotechnique</i> , 2021, , 1-12.	2.2	4
18	Analytical Modelling of Energy Geostructures. <i>Lecture Notes in Civil Engineering</i> , 2021, , 1093-1101.	0.3	0

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19	Experimental assessment of the hydro-mechanical behaviour of a shale caprock during CO2 injection. International Journal of Greenhouse Gas Control, 2021, 106, 103225.	2.3	18
20	Soil-structure interaction of surface footings. Computers and Geotechnics, 2021, 134, 104103.	2.3	1
21	Effect of the mineralogical composition on the elastoplastic hydromechanical response of Opalinus Clay shale. International Journal of Rock Mechanics and Minings Sciences, 2021, 143, 104747.	2.6	7
22	Cyclic thermomechanical response of fine-grained soil-concrete interface for energy piles applications. Canadian Geotechnical Journal, 2021, 58, 1216-1230.	1.4	14
23	Machine learning enhancement of thermal response tests for geothermal potential evaluations at site and regional scales. Geothermics, 2021, 95, 102132.	1.5	15
24	The thermal energy storage potential of underground tunnels used as heat exchangers. Renewable Energy, 2021, 176, 214-227.	4.3	17
25	Coupled hydro-mechanical analysis of compacted bentonite behaviour during hydration. Computers and Geotechnics, 2021, 140, 104447.	2.3	12
26	Thermo-mechanical behavior of a full-scale energy pile equipped with a spiral pipe configuration. Canadian Geotechnical Journal, 2021, 58, 1757-1769.	1.4	22
27	Controlling the calcium carbonate microstructure of engineered living building materials. Journal of Materials Chemistry A, 2021, 9, 24438-24451.	5.2	15
28	Generalized effective stress concept for saturated active clays. Canadian Geotechnical Journal, 2021, 58, 1627-1639.	1.4	10
29	Increasing understanding and confidence in THM simulations of Engineered Barrier Systems. Environmental Geotechnics, 2020, 7, 59-71.	1.3	12
30	The role of thermal loads in the performance-based design of energy piles. Geomechanics for Energy and the Environment, 2020, 21, 100153.	1.2	21
31	Analysis of the interaction factor method for energy pile groups with slab. Computers and Geotechnics, 2020, 119, 103294.	2.3	25
32	Long-term performance and life cycle assessment of energy piles in three different climatic conditions. Renewable Energy, 2020, 146, 1177-1191.	4.3	42
33	Injection-induced seismicity: strategies for reducing risk using high stress path reservoirs and temperature-induced stress preconditioning. Geophysical Journal International, 2020, 220, 1436-1446.	1.0	9
34	Equivalent pier analysis of full-scale pile groups subjected to mechanical and thermal loads. Computers and Geotechnics, 2020, 120, 103410.	2.3	8
35	Energy geostructures. , 2020, , 25-65.		24
36	Thermomechanical behaviour of energy pile groups. , 2020, , 299-330.		0

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37	Analytical modelling of capacity and deformation of single energy piles. , 2020, , 457-565.		0
38	Thermohydromechanical behaviour of soils and soilâ€“structure interfaces. , 2020, , 209-269.		0
39	Thermomechanical behaviour of single energy piles. , 2020, , 271-298.		0
40	Analytical modelling of capacity and deformation of energy pile groups. , 2020, , 567-680.		0
41	Direct currents stimulate carbonate mineralization for soil improvement under various chemical conditions. Scientific Reports, 2020, 10, 17014.	1.6	9
42	Thermal cycling effects on the structure and physical properties of granular materials. Granular Matter, 2020, 22, 1.	1.1	7
43	Electrokinetic treatments of soils: potential for geoenery applications. E3S Web of Conferences, 2020, 205, 09002.	0.2	0
44	Extension of Winklerâ€™s solution to non-isothermal conditions for capturing the behaviour of plane geostructures subjected to thermal and mechanical actions. Computers and Geotechnics, 2020, 128, 103618.	2.3	8
45	Performance of Energy Piles Considering Reinforced Concrete Non-Linearity. , 2020, , .		0
46	A Full-Scale Application of Slope Stabilization via Calcite Bio-Mineralization Followed by Long-Term GIS Surveillance. , 2020, , .		16
47	Microfluidic-Based Study on the Activation and Evolution of Calcite Bio-Mineralization for Geotechnical Applications. , 2020, , .		0
48	Load Transfer Method for Energy Piles in a Group with Pileâ€“Soilâ€“Slabâ€“Pile Interaction. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2020, 146, .	1.5	42
49	Energy geostructures: Theory and application. E3S Web of Conferences, 2020, 205, 01004.	0.2	9
50	Bentonite clay barriers in nuclear waste repositories. E3S Web of Conferences, 2020, 205, 01003.	0.2	3
51	Load transfer approach for the geotechnical analysis of energy piles in a group with slab. E3S Web of Conferences, 2020, 205, 05008.	0.2	0
52	Developing a high capacity axis translation apparatus for gas shale testing. E3S Web of Conferences, 2020, 195, 03020.	0.2	1
53	A coupled hydro â€“ mechanical approach for modelling the volume change behaviour of compacted bentonite. E3S Web of Conferences, 2020, 195, 04006.	0.2	1
54	Non-isothermal volume change behavior of saturated sand subjected to minimal vertical effective stress. E3S Web of Conferences, 2020, 205, 09008.	0.2	0

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55	Benefits and drawbacks of applied direct currents for soil improvement via carbonate mineralization. E3S Web of Conferences, 2020, 195, 05007.	0.2	1
56	An extended generalized effective stress for active clays. E3S Web of Conferences, 2020, 195, 02004.	0.2	0
57	Effective stress concept for mechanical modeling of clays under different environmental conditions. E3S Web of Conferences, 2020, 205, 13015.	0.2	0
58	Swelling and shrinkage of gas shales due to suction variations. E3S Web of Conferences, 2020, 205, 13004.	0.2	0
59	The impact of the compaction and mineralogical composition on the retention behaviour of Opalinus Clay. E3S Web of Conferences, 2020, 205, 13009.	0.2	0
60	Anisotropic Behaviour of Shallow Opalinus Clay. Springer Series in Geomechanics and Geoengineering, 2019, , 442-448.	0.0	3
61	Gas Shale Water Imbibition Tests with Controlled Suction Technique. Springer Series in Geomechanics and Geoengineering, 2019, , 250-257.	0.0	0
62	A double-structure hydromechanical constitutive model for compacted bentonite. Computers and Geotechnics, 2019, 115, 103173.	2.3	21
63	Energy performance and economic feasibility of energy segmental linings for subway tunnels. Tunnelling and Underground Space Technology, 2019, 91, 102997.	3.0	43
64	Thermal design and full-scale thermal response test on Energy Walls. E3S Web of Conferences, 2019, 92, 18011.	0.2	3
65	Hydro-mechanical behaviour of shallow Opalinus Clay shale. Engineering Geology, 2019, 251, 214-227.	2.9	41
66	Induced seismicity in geologic carbon storage. Solid Earth, 2019, 10, 871-892.	1.2	74
67	Numerical investigation of the convection heat transfer driven by airflows in underground tunnels. Applied Thermal Engineering, 2019, 159, 113844.	3.0	44
68	Three-dimensional finite element analysis of piled rafts with energy piles. Computers and Geotechnics, 2019, 114, 103115.	2.3	22
69	Compaction-Induced Permeability Loss's Effect on Induced Seismicity During Reservoir Depletion. Pure and Applied Geophysics, 2019, 176, 4277-4296.	0.8	3
70	A decade of progress and turning points in the understanding of bio-improved soils: A review. Geomechanics for Energy and the Environment, 2019, 19, 100116.	1.2	86
71	Cell-free soil bio-cementation with strength, dilatancy and fabric characterization. Acta Geotechnica, 2019, 14, 639-656.	2.9	69
72	Cyclic Load's Transfer Approach for the Analysis of Energy Piles. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2019, 145, .	1.5	54

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73	Performance of a geothermal energy deicing system for bridge deck using a pile heat exchanger. International Journal of Energy Research, 2019, 43, 596-603.	2.2	61
74	Analysis of the vertical displacement of energy pile groups. Geomechanics for Energy and the Environment, 2018, 16, 1-14.	1.2	44
75	Anisotropic Behaviour of Opalinus Clay Through Consolidated and Drained Triaxial Testing in Saturated Conditions. Rock Mechanics and Rock Engineering, 2018, 51, 1305-1319.	2.6	52
76	3-D micro-architecture and mechanical response of soil cemented via microbial-induced calcite precipitation. Scientific Reports, 2018, 8, 1416.	1.6	108
77	Impact of CO2 injection on the hydro-mechanical behaviour of a clay-rich caprock. International Journal of Greenhouse Gas Control, 2018, 71, 133-141.	2.3	16
78	Nonlinear Elastic Response of Partially Saturated Gas Shales in Uniaxial Compression. Rock Mechanics and Rock Engineering, 2018, 51, 1967-1978.	2.6	14
79	On the Formulation of Anisotropic Polyaxial Failure Criteria: A Comparative Study. Rock Mechanics and Rock Engineering, 2018, 51, 479-489.	2.6	5
80	Similarity solution for cavity expansion in thermoplastic soil. International Journal for Numerical and Analytical Methods in Geomechanics, 2018, 42, 274-294.	1.7	74
81	Group action effects caused by various operating energy piles. Geotechnique, 2018, 68, 834-841.	2.2	62
82	The impact of the volumetric swelling behavior on the water uptake of gas shale. Journal of Natural Gas Science and Engineering, 2018, 49, 132-144.	2.1	26
83	Performance-based Design of Energy Pile Foundations. DFI Journal, 2018, 12, 94-107.	0.2	15
84	Reservoir Stimulation's Effect on Depletion-Induced Seismicity. Journal of Geophysical Research: Solid Earth, 2018, 123, 7806-7823.	1.4	1
85	Hydro-mechanical Modeling of Tunnel Excavation in Anisotropic Shale with Coupled Damage-Plasticity and Micro-dilatant Regularization. Rock Mechanics and Rock Engineering, 2018, 51, 3819-3833.	2.6	20
86	Gas shales testing in controlled partially saturated conditions. International Journal of Rock Mechanics and Minings Sciences, 2018, 107, 110-119.	2.6	11
87	The Role of Anisotropy on the Volumetric Behaviour of Opalinus Clay upon Suction Change. Springer Series in Geomechanics and Geoengineering, 2017, , 315-321.	0.0	3
88	One Dimensional Consolidation of Opalinus Clay from Shallow Depth. Springer Series in Geomechanics and Geoengineering, 2017, , 338-344.	0.0	1
89	Constitutive Framework for Unsaturated Soils with Differentiation of Capillarity and Adsorption. Springer Series in Geomechanics and Geoengineering, 2017, , 447-454.	0.0	0
90	A methodology to detect and locate low-permeability faults to reduce the risk of inducing seismicity of fluid injection operations in deep saline formations. International Journal of Greenhouse Gas Control, 2017, 59, 110-122.	2.3	6

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91	Plastic-damage modeling of saturated quasi-brittle shales. International Journal of Rock Mechanics and Minings Sciences, 2017, 93, 295-306.	2.6	28
92	Coupled Analysis of CO2 Injection Induced Stress Variation in the Caprock. Springer Series in Geomechanics and Geoengineering, 2017, , 455-462.	0.0	0
93	Effect of End-Restraint Conditions on Energy Pile Behavior. , 2017, , .		10
94	Strength Evolution of Geomaterials in the Octahedral Plane under Nonisothermal and Unsaturated Conditions. International Journal of Geomechanics, 2017, 17, .	1.3	4
95	Displacement interaction among energy piles bearing on stiff soil strata. Computers and Geotechnics, 2017, 90, 144-154.	2.3	36
96	Effect of non-linear soil deformation on the interaction among energy piles. Computers and Geotechnics, 2017, 86, 9-20.	2.3	29
97	Quantification of Viscous Creep Influence on Storage Capacity of Caprock. Energy Procedia, 2017, 114, 3237-3246.	1.8	24
98	Coupled Thermo-hydro-Mechanical Effects on Caprock Stability During Carbon Dioxide Injection. Energy Procedia, 2017, 114, 3202-3209.	1.8	2
99	Investigation of the Intrinsic Permeability of MX-80 Bentonite through a 4-Scale Analysis of Its Fabric. , 2017, , .		0
100	Hydromechanical Aspects of CO2 Breakthrough into Clay-rich Caprock. Energy Procedia, 2017, 114, 3219-3228.	1.8	36
101	Potential for Fault Reactivation Due to CO2 Injection in a Semi-Closed Saline Aquifer. Energy Procedia, 2017, 114, 3282-3290.	1.8	20
102	Impact of material properties on caprock stability inCO2geological storage. Geomechanics for Energy and the Environment, 2017, 11, 28-41.	1.2	6
103	Analytical Time-Domain Solution of Plane Wave Propagation Across a Viscoelastic Rock Joint. Rock Mechanics and Rock Engineering, 2017, 50, 2731-2747.	2.6	13
104	Thermally induced group effects among energy piles. Geotechnique, 2017, 67, 374-393.	2.2	127
105	1D Compression Behaviour of Opalinus Clay. Springer Series in Geomechanics and Geoengineering, 2017, , 322-329.	0.0	0
106	Modelling landslides in unsaturated slopes subjected to rainfall infiltration using material point method. International Journal for Numerical and Analytical Methods in Geomechanics, 2016, 40, 1358-1380.	1.7	101
107	On the hydro-mechanical behaviour of remoulded and natural Opalinus Clay shale. Engineering Geology, 2016, 208, 128-135.	2.9	48
108	Thermo-mechanical volume change behaviour of Opalinus Clay. International Journal of Rock Mechanics and Minings Sciences, 2016, 90, 15-25.	2.6	51

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109	Analysis of thermally induced mechanical interactions in energy pile groups. , 2016, , 171-178.		3
110	Multiphysical phenomena and mechanisms involved with energy piles. , 2016, , 11-18.		0
111	Microbially induced calcite precipitation effect on soil thermal conductivity. Geotechnique Letters, 2016, 6, 39-44.	0.6	50
112	Coupled multiphase thermo-hydro-mechanical analysis of supercritical CO ₂ injection: Benchmark for the In Salah surface uplift problem. International Journal of Greenhouse Gas Control, 2016, 51, 394-408.	2.3	35
113	One-dimensional compression and consolidation of shales. International Journal of Rock Mechanics and Minings Sciences, 2016, 88, 286-300.	2.6	42
114	Fabric characteristics and mechanical response of bio-improved sand to various treatment conditions. Geotechnique Letters, 2016, 6, 50-57.	0.6	70
115	Hydro-mechanical analysis of volcanic ash slopes during rainfall. Geotechnique, 2016, 66, 220-231.	2.2	17
116	Anisotropic volumetric behaviour of Opalinus clay shale upon suction variation. Geotechnique Letters, 2016, 6, 144-148.	0.6	44
117	The interaction factor method for energy pile groups. Computers and Geotechnics, 2016, 80, 121-137.	2.3	88
118	Numerical analysis of canister movements in an engineered barrier system. Acta Geotechnica, 2016, 11, 145-159.	2.9	6
119	Impacts of Thermally Induced Stresses on Fracture Stability During Geological Storage of CO ₂ . Energy Procedia, 2016, 86, 411-419.	1.8	15
120	Wave Propagation in the Vicinities of Rock Fractures Under Obliquely Incident Wave. Rock Mechanics and Rock Engineering, 2016, 49, 1789-1802.	2.6	19
121	Nonstationary flow surface theory for modeling the viscoplastic behaviors of soils. Computers and Geotechnics, 2016, 76, 105-119.	2.3	32
122	Numerical study of the response of a group of energy piles under different combinations of thermo-mechanical loads. Computers and Geotechnics, 2016, 72, 126-142.	2.3	117
123	Contribution to the design methodologies of piled raft foundations under combined loadings. Canadian Geotechnical Journal, 2016, 53, 559-577.	1.4	41
124	Experimental investigations of the soil-concrete interface: physical mechanisms, cyclic mobilization, and behaviour at different temperatures. Canadian Geotechnical Journal, 2016, 53, 659-672.	1.4	143
125	A hydromechanical approach to assess CO ₂ injection-induced surface uplift and caprock deflection. Geomechanics for Energy and the Environment, 2015, 4, 51-60.	1.2	15
126	Experimental and Numerical Investigations of the Behavior of a Heat Exchanger Pile. , 2015, , 515-535.		5

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127	Energy and geotechnical behaviour of energy piles for different design solutions. Applied Thermal Engineering, 2015, 86, 199-213.	3.0	137
128	Numerical analysis of the geotechnical behaviour of energy piles. International Journal for Numerical and Analytical Methods in Geomechanics, 2015, 39, 861-888.	1.7	103
129	Potential fracture propagation into the caprock induced by cold CO_2 in normal faulting stress regimes. Geomechanics for Energy and the Environment, 2015, 2, 22-31.	1.2	24
130	Numerical Study on the Suitability of Centrifuge Testing for Capturing the Thermal-Induced Mechanical Behavior of Energy Piles. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2015, 141, .	1.5	23
131	Behaviour of a group of energy piles. Canadian Geotechnical Journal, 2015, 52, 1913-1929.	1.4	140
132	Predicting the axial capacity of piles in sand. Computers and Geotechnics, 2015, 69, 485-495.	2.3	8
133	One-Dimensional Transient Analysis of Rainfall Infiltration in Unsaturated Volcanic Ash. Springer Series in Geomechanics and Geoengineering, 2015, , 107-118.	0.0	0
134	Response of soil subjected to thermal cyclic loading: Experimental and constitutive study. Engineering Geology, 2015, 190, 65-76.	2.9	133
135	Numerical modelling of energy piles in saturated sand subjected to thermo-mechanical loads. Geomechanics for Energy and the Environment, 2015, 1, 1-15.	1.2	99
136	Constitutive analysis of shale: a coupled damage plasticity approach. International Journal of Solids and Structures, 2015, 75-76, 88-98.	1.3	48
137	Centrifuge modelling of heating effects on energy pile performance in saturated sand. Canadian Geotechnical Journal, 2015, 52, 1045-1057.	1.4	129
138	Estimating soil thermal diffusivity with interference analyses. Acta Geotechnica, 2015, 10, 197-208.	2.9	4
139	Centrifuge modelling of energy piles subjected to heating and cooling cycles in clay. Geotechnique Letters, 2014, 4, 310-316.	0.6	110
140	Shot-clay MX-80 bentonite: An assessment of the hydro-mechanical behaviour. Engineering Geology, 2014, 173, 10-18.	2.9	15
141	Towards a secure basis for the design of geothermal piles. Acta Geotechnica, 2014, 9, 355-366.	2.9	76
142	Heat-exchanger piles for the de-icing of bridges. Acta Geotechnica, 2014, 9, 413-423.	2.9	23
143	Estimating the geothermal potential of heat-exchanger anchors on a cut-and-cover tunnel. Geothermics, 2014, 51, 380-387.	1.5	37
144	Numerical analysis of seasonal heat storage in an energy pile foundation. Computers and Geotechnics, 2014, 55, 67-77.	2.3	97

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145	A three-scale cracking criterion for drying soils. <i>Acta Geophysica</i> , 2014, 62, 1049-1059.	1.0	24
146	Experimental analysis of the water retention behaviour of shales. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2014, 72, 61-70.	2.6	92
147	Techniques for the Modelling of the Process Systems in Slow and Fast-Moving Landslides. <i>Advances in Natural and Technological Hazards Research</i> , 2014, , 83-129.	1.1	2
148	Desiccation shrinkage of non-clayey soils: a numerical study. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2013, 37, 1782-1800.	1.7	14
149	Desiccation shrinkage of non-clayey soils: multiphysics mechanisms and a microstructural model. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2013, 37, 1761-1781.	1.7	28
150	Analysis of the FEBEX multi-barrier system including thermoplasticity of unsaturated bentonite. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2013, 37, 399-422.	1.7	31
151	THM coupling sensitivity analysis in geological nuclear waste storage. <i>Engineering Geology</i> , 2013, 163, 113-121.	2.9	15
152	Retention behaviour of natural clayey materials at different temperatures. <i>Acta Geotechnica</i> , 2013, 8, 537-546.	2.9	34
153	Constitutive analysis of the mechanical anisotropy of Opalinus Clay. <i>Acta Geotechnica</i> , 2013, 8, 137-154.	2.9	32
154	Formation of drying crack patterns in soils: a deterministic approach. <i>Acta Geotechnica</i> , 2013, 8, 215-221.	2.9	51
155	Mechanisms and critical properties in drying shrinkage of soils: experimental and numerical parametric studies. <i>Canadian Geotechnical Journal</i> , 2013, 50, 536-549.	1.4	23
156	Early warning thresholds for partially saturated slopes in volcanic ashes. <i>Computers and Geotechnics</i> , 2013, 49, 79-89.	2.3	41
157	Investigation into water retention behaviour of deformable soils. <i>Canadian Geotechnical Journal</i> , 2013, 50, 200-208.	1.4	112
158	Editorial: bio- and chemo-mechanical processes in geotechnical engineering. <i>Geotechnique</i> , 2013, 63, 189-190.	2.2	1
159	Hydromechanical behaviour of a volcanic ash. <i>Geotechnique</i> , 2013, 63, 1433-1446.	2.2	23
160	Advances in the Testing of the Hydro-mechanical Behaviour of Shales. <i>Springer Series in Geomechanics and Geoengineering</i> , 2013, , 57-68.	0.0	23
161	Thermo-mechanical behaviour of energy piles. <i>Geotechnique</i> , 2012, 62, 503-519.	2.2	334
162	A bio-chemo-hydro-mechanical model for microbially induced calcite precipitation in soils. <i>Computers and Geotechnics</i> , 2012, 46, 104-120.	2.3	61

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163	Benchmark of experimental techniques for measuring and controlling suction. <i>Geotechnique</i> , 2011, 61, 303-312.	2.2	39
164	Temperature-dependent internal friction of clay in a cylindrical heat source problem. <i>Geotechnique</i> , 2011, 61, 831-844.	2.2	35
165	Understanding the behaviour of energy geo-structures. <i>Proceedings of the Institution of Civil Engineers: Civil Engineering</i> , 2011, 164, 184-191.	0.3	30
166	In Situ Testing of a Heat Exchanger Pile. , 2011, , .		6
167	An innovative device for determining the soil water retention curve under high suction at different temperatures. <i>Acta Geotechnica</i> , 2011, 6, 135-142.	2.9	26
168	Geotechnical Analysis of Heat Exchanger Piles. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2011, 137, 890-902.	1.5	222
169	Benchmark of constitutive models for unsaturated soils. <i>Geotechnique</i> , 2011, 61, 283-302.	2.2	68
170	Analysis of compaction phenomena due to water injection in reservoirs with a three-phase geomechanical model. <i>Journal of Petroleum Science and Engineering</i> , 2010, 73, 33-40.	2.1	5
171	Experimental analysis of the cyclic behaviour of kaolin at high temperature. <i>Geotechnique</i> , 2010, 60, 651-655.	2.2	14
172	Structural characterization of unsaturated aggregated soil. <i>Canadian Geotechnical Journal</i> , 2010, 47, 297-311.	1.4	74
173	An Oedometer for Studying Combined Effects of Temperature and Suction on Soils. <i>Geotechnical Testing Journal</i> , 2010, 33, 112-122.	0.5	6
174	ACMEG-T: Soil Thermoplasticity Model. <i>Journal of Engineering Mechanics - ASCE</i> , 2009, 135, 932-944.	1.6	110
175	Reply to Discussion on "On the use of generalised effective stress in the constitutive modelling of unsaturated soils". <i>Computers and Geotechnics</i> , 2009, 36, 1362-1363.	2.3	0
176	On the use of the generalised effective stress in the constitutive modelling of unsaturated soils. <i>Computers and Geotechnics</i> , 2009, 36, 20-23.	2.3	84
177	Discrete element modelling of drying shrinkage and cracking of soils. <i>Computers and Geotechnics</i> , 2009, 36, 61-69.	2.3	121
178	Thermo-hydro-mechanical simulation of ATLAS in situ large scale test in Boom Clay. <i>Computers and Geotechnics</i> , 2009, 36, 626-640.	2.3	74
179	Identification of mechanisms for landslide type initiation of debris flows. <i>Engineering Geology</i> , 2009, 109, 114-123.	2.9	36
180	Desiccation cracking of soils. <i>European Journal of Environmental and Civil Engineering</i> , 2009, 13, 869-888.	1.0	72

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181	Modelling Coupled Mechanics, Moisture and Heat in Pavement Structures. Geotechnical, Geological and Earthquake Engineering, 2009, , 243-281.	0.1	1
182	Explaining thermal failure in saturated clays. Geotechnique, 2009, 59, 197-212.	2.2	93
183	Reply to the discussion by G. Qu on "Modelling the combined effect of strain rate and temperature on one-dimensional compression of soils" Appears in the Canadian Geotechnical Journal, 46(9): 1100-1101.. Canadian Geotechnical Journal, 2009, 46, 1102-1102.	1.4	0
184	Multi-physical processes in geomechanics. European Journal of Environmental and Civil Engineering, 2009, 13, 803-830.	1.0	1
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