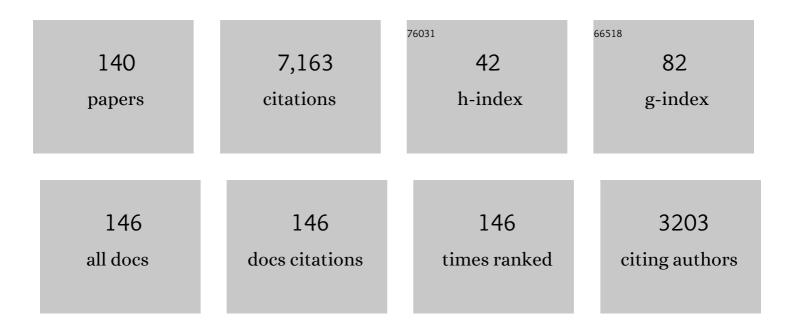
Pierre Delage

List of Publications by Year in descending order

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DIEDDE DELACE

#	Article	IF	CITATIONS
1	The interaction between the SEIS seismometer of the InSight Martian mission and a regolith simulant. Geotechnique, 2024, 74, 42-53.	2.2	2
2	Pore changes in an illitic clay during one-dimensional compression. Geotechnique, 2023, 73, 917-932.	2.2	3
3	Inducing Tensile Failure of Claystone Through Thermal Pressurization in a Novel Triaxial Device. Rock Mechanics and Rock Engineering, 2022, 55, 3881-3899.	2.6	6
4	X-Ray microtomography of mercury intruded compacted clay: An insight into the geometry of macropores. Applied Clay Science, 2022, 227, 106573.	2.6	5
5	Transversely Isotropic Poroelastic Behaviour of the Callovo-Oxfordian Claystone: A Set of Stress-Dependent Parameters. Rock Mechanics and Rock Engineering, 2021, 54, 377-396.	2.6	12
6	Thermo-Poro-Elastic Behaviour of a Transversely Isotropic Shale: Thermal Expansion and Pressurization. Rock Mechanics and Rock Engineering, 2021, 54, 359-375.	2.6	13
7	Macroscopic effects of nano and microscopic phenomena in clayey soils and clay rocks. Geomechanics for Energy and the Environment, 2021, 27, 100177.	1.2	25
8	Evaluation of anisotropic poroelastic properties and permeability of the Opalinus Clay using a single transient experiment. Acta Geotechnica, 2021, 16, 2131-2142.	2.9	9
9	A new multifractal-based grain size distribution model. Geoderma, 2021, 404, 115294.	2.3	7
10	Water-retention properties and microstructure changes of a bentonite pellet upon wetting/drying; application to radioactive waste disposal. Geotechnique, 2020, 70, 199-209.	2.2	30
11	Modelling the long-term hydro-mechanical behaviour of a bentonite pellet/powder mixture with consideration of initial structural heterogeneities. Geotechnique, 2020, 70, 563-580.	2.2	22
12	Effect of anisotropy on the thermal volume changes of the Callovo–Oxfordian claystone. Geotechnique Letters, 2020, 10, 63-66.	0.6	2
13	Impact of initial structural heterogeneity on long-term swelling behavior of MX80 bentonite pellet/powder mixtures. Canadian Geotechnical Journal, 2020, 57, 1404-1416.	1.4	15
14	A New Fractal Approach to Account for Capillary and Adsorption Phenomena in the Water Retention and Transfer Properties of Unsaturated Soils. Water Resources Research, 2020, 56, e2020WR027808.	1.7	7
15	Discussion on the separation of macropores and micropores in a compacted expansive clay. Geotechnique Letters, 2020, 10, 454-460.	0.6	16
16	Subsurface Structure at the InSight Landing Site From Compliance Measurements by Seismic and Meteorological Experiments. Journal of Geophysical Research E: Planets, 2020, 125, e2020JE006387.	1.5	44
17	Constraints on the shallow elastic and anelastic structure of Mars from InSight seismic data. Nature Geoscience, 2020, 13, 213-220.	5.4	207
18	A Device for the Simultaneous Determination of the Water Retention Properties and the Hydraulic Conductivity Function of an Unsaturated Coarse Material; Application to a Green-Roof Volcanic Substrate. Geotechnical Testing Journal, 2020, 43, 547-564.	0.5	6

#	Article	IF	CITATIONS
19	Numéro spécial « Microstructure des matériaux argileux â~' conséquences pour l'ingé introductif par Pierre Delage et Philippe Cosenza. Revue Française De Géotechnique, 2020, , E1.	nieur	». Texte
20	Mécanismes de gonflement dans les sols fins ; application aux sols gonflants de la région parisienne. Revue Française De Géotechnique, 2020, , 3.	0.1	2
21	SEIS: Insight's Seismic Experiment for Internal Structure of Mars. Space Science Reviews, 2019, 215, 12.	3.7	238
22	Characterization of water retention, compressibility and swelling properties of a pellet/powder bentonite mixture. Engineering Geology, 2019, 248, 14-21.	2.9	36
23	Determination of Multiple Thermo-Hydro-Mechanical Rock Properties in a Single Transient Experiment: Application to Shales. Rock Mechanics and Rock Engineering, 2019, 52, 2023-2038.	2.6	17
24	Micro-Macro Effects in Bentonite Engineered Barriers for Radioactive Waste Disposal. Environmental Science and Engineering, 2019, , 61-80.	0.1	2
25	Drained Triaxial Tests in Low-Permeability Shales: Application to the Callovo-Oxfordian Claystone. Rock Mechanics and Rock Engineering, 2018, 51, 1979-1993.	2.6	19
26	Theoretical Analysis of Pore Pressure Diffusion in Some Basic Rock Mechanics Experiments. Rock Mechanics and Rock Engineering, 2018, 51, 1361-1378.	2.6	15
27	A Numerical Model of the SEIS Leveling System Transfer Matrix and Resonances: Application to SEIS Rotational Seismology and Dynamic Ground Interaction. Space Science Reviews, 2018, 214, 1.	3.7	22
28	Active porosity in swelling shales: insight from the Callovo-Oxfordian claystone. Geotechnique Letters, 2018, 8, 226-230.	0.6	1
29	KG²B, a collaborative benchmarking exercise for estimating the permeability of the Grimsel granodiorite—Part 2: modelling, microstructures and complementary data. Geophysical Journal International, 2018, 215, 825-843.	1.0	10
30	Geology and Physical Properties Investigations by the InSight Lander. Space Science Reviews, 2018, 214, 1.	3.7	77
31	A Pre-Landing Assessment of Regolith Properties at the InSight Landing Site. Space Science Reviews, 2018, 214, 1.	3.7	58
32	Analysis of the structural changes of a pellet/powder bentonite mixture upon wetting by X-ray computed microtomography. Applied Clay Science, 2018, 165, 164-169.	2.6	48
33	Investigation of the hydro-mechanical behaviour of a pellet/powder MX80 bentonite mixture using an infiltration column. Engineering Geology, 2018, 243, 18-25.	2.9	28
34	An Investigation of the Mechanical Properties of Some Martian Regolith Simulants with Respect to the Surface Properties at the InSight Mission Landing Site. Space Science Reviews, 2017, 211, 191-213.	3.7	42
35	Thermal Volume Changes and Creep in the Callovo-Oxfordian Claystone. Rock Mechanics and Rock Engineering, 2017, 50, 2297-2309.	2.6	30

Poroelastic Investigation of the Callovo-Oxfordian Claystone. , 2017, , .

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37	Analysis of Regolith Properties Using Seismic Signals Generated by InSight's HP3 Penetrator. Space Science Reviews, 2017, 211, 315-337.	3.7	31
38	Thermal Behaviour and Creep of the Callovo-Oxfordian Claystone. , 2017, , .		0
39	Pore Pressure Diffusion in Some Rock Mechanics Experiments. , 2017, , .		0
40	In-depth characterisation of a mixture composed of powder/pellets MX80 bentonite. Applied Clay Science, 2017, 135, 538-546.	2.6	57
41	Poroelasticity of the Callovo–Oxfordian Claystone. Rock Mechanics and Rock Engineering, 2017, 50, 871-889.	2.6	40
42	The Status of Water in Swelling Shales: An Insight from the Water Retention Properties of the Callovo-Oxfordian Claystone. Rock Mechanics and Rock Engineering, 2016, 49, 4571-4586.	2.6	46
43	Clay-water interactions in swelling claystones: The case of the Callovo-Oxfordian claystone. , 2016, , 707-713.		0
44	A microstructure insight into the water retention properties of the Callovo-Oxfordian claystone. E3S Web of Conferences, 2016, 9, 06006.	0.2	0
45	Stress release and suction generation in the Callovo-Oxfordian claystone. E3S Web of Conferences, 2016, 9, 18004.	0.2	1
46	On the Thermo-Hydro-Mechanical Behaviour of a Sheared Callovo-Oxfordian Claystone Sample with Respect to the EDZ Behaviour. Rock Mechanics and Rock Engineering, 2016, 49, 1875-1888.	2.6	32
47	Relationship between soil structure and water retention properties in a residual compacted soil. Engineering Geology, 2016, 205, 73-80.	2.9	67
48	Anisotropy in Oedometer Test on Natural Boom Clay. , 2015, , 499-502.		2
49	The thermo-mechanical behaviour of the Callovo-Oxfordian claystone. International Journal of Rock Mechanics and Minings Sciences, 2015, 78, 290-303.	2.6	52
50	A New Apparatus for the Measurement of Swelling Pressure Under Constant Volume Condition. , 2015, , 489-492.		1
51	Suction effects in deep Callovo-Oxfordian claystone. Geotechnique Letters, 2014, 4, 267-271.	0.6	15
52	Further insight into the microstructure of compacted bentonite–sand mixture. Engineering Geology, 2014, 168, 141-148.	2.9	48
53	Consequences of the Thermal Transient on the Evolution of the Damaged Zone Around a Repository for Heat-Emitting High-Level Radioactive Waste in a Clay Formation: a Performance Assessment Perspective. Rock Mechanics and Rock Engineering, 2014, 47, 3-19.	2.6	19
54	Temperature and Damage Impact on the Permeability of Opalinus Clay. Rock Mechanics and Rock Engineering, 2014, 47, 101-110.	2.6	23

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55	Microstructure and anisotropic swelling behaviour of compacted bentonite/sand mixture. Journal of Rock Mechanics and Geotechnical Engineering, 2014, 6, 126-132.	3.7	101
56	Effect of stress on water retention of needlepunched geosynthetic clay liners. Geotextiles and Geomembranes, 2014, 42, 629-640.	2.3	29
57	Anisotropic thermal conductivity of natural Boom Clay. Applied Clay Science, 2014, 101, 282-287.	2.6	27
58	Long-term effect of water chemistry on the swelling pressure of a bentonite-based material. Applied Clay Science, 2014, 87, 157-162.	2.6	43
59	The Thermal Volume Changes of the Callovo–Oxfordian Claystone. Rock Mechanics and Rock Engineering, 2014, 47, 131-142.	2.6	34
60	The oedometer compression curve is a pore size distribution curve in loose structured clays. , 2014, , 1251-1254.		0
61	A μCT investigation of the collapse of a loose unsaturated sand specimen: Comparison between macroscopic and mesoscopic scale. , 2014, , 1171-1176.		Ο
62	Unsaturated issues in claystones. , 2014, , 99-105.		1
63	The effects of technological voids on the hydro-mechanical behaviour of compacted bentonite–sand mixture. Soils and Foundations, 2013, 53, 232-245.	1.3	165
64	Water retention properties of the Callovo-Oxfordian claystone. International Journal of Rock Mechanics and Minings Sciences, 2013, 64, 96-104.	2.6	54
65	Full 3D investigation and characterisation of capillary collapse of a loose unsaturated sand using X-ray CT. Granular Matter, 2013, 15, 783-800.	1.1	59
66	On the thermal impact on the excavation damaged zone around deep radioactive waste disposal. Journal of Rock Mechanics and Geotechnical Engineering, 2013, 5, 179-190.	3.7	24
67	Compression Behavior of Canadian Oil Sands. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2013, 139, 969-974.	1.5	6
68	X-ray microtomography characterisation of the changes in statistical homogeneity of an unsaturated sand during imbibition. Geotechnique Letters, 2013, 3, 84-88.	0.6	20
69	On-sample water content measurement for a complete local monitoring in triaxial testing of unsaturated soils. Geotechnique, 2012, 62, 595-604.	2.2	21
70	Strain-rate effects in deep marine clays from the Gulf of Guinea. Geotechnique, 2012, 62, 767-775.	2.2	18
71	The water retention properties of a natural unsaturated loess from northern France. Geotechnique, 2012, 62, 95-106.	2.2	126
72	Microstructural characterization of a Canadian oil sand. Canadian Geotechnical Journal, 2012, 49, 1212-1220.	1.4	21

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73	A laboratory investigation of thermally induced pore pressures in the Callovo-Oxfordian claystone. International Journal of Rock Mechanics and Minings Sciences, 2012, 52, 112-121.	2.6	65
74	On the THM behaviour of a sheared Boom clay sample: Application to the behaviour and sealing properties of the EDZ. Engineering Geology, 2012, 124, 47-58.	2.9	44
75	Experimental study on the swelling behaviour of bentonite/claystone mixture. Engineering Geology, 2012, 124, 59-66.	2.9	186
76	On the Resaturation of Swelling Claystone. , 2012, , 411-417.		2
77	The Influence of Changes in Water Content on the Electrical Resistivity of a Natural Unsaturated Loess. Geotechnical Testing Journal, 2012, 35, 11-17.	0.5	14
78	Evolution of Seismic Velocities in Heavy Oil Sand Reservoirs during Thermal Recovery Process. Oil and Gas Science and Technology, 2012, 67, 1029-1039.	1.4	7
79	A Local Monitoring of Water Content in Unsaturated Soil Triaxial Testing. , 2012, , 19-24.		0
80	Investigating the swelling pressure of compacted crushed-Callovo-Oxfordian claystone. Physics and Chemistry of the Earth, 2011, 36, 1857-1866.	1.2	40
81	A Laboratory Investigation on Thermal Properties of the Opalinus Claystone. Rock Mechanics and Rock Engineering, 2011, 44, 735-747.	2.6	68
82	Studying the stress-suction coupling in soils using an oedometer equipped with a high capacity tensiometer. Frontiers of Architecture and Civil Engineering in China, 2011, 5, 160-170.	0.4	21
83	A study of the hydro-mechanical behaviour of compacted crushed argillite. Engineering Geology, 2011, 118, 93-103.	2.9	38
84	Oedometric compression and swelling behaviour of the Callovo-Oxfordian argillite. International Journal of Rock Mechanics and Minings Sciences, 2011, 48, 606-615.	2.6	78
85	A new hollow cylinder triaxial cell to study the behavior of geo-materials with low permeability. International Journal of Rock Mechanics and Minings Sciences, 2011, 48, 637-649.	2.6	51
86	Some aspects of the compression and collapse behaviour of an unsaturated natural loess. Geotechnique Letters, 2011, 1, 17-22.	0.6	80
87	Effect of temperature on ultrasonic velocities of unconsolidated sandstones reservoirs during the SAGD recovery process. EPJ Web of Conferences, 2010, 6, 36003.	0.1	3
88	Suction measurements on a natural unsaturated soil. , 2010, , 707-712.		7
89	A microstructure-based constitutive model for the hydro-mechanical coupling in compacted clay/sand mixtures. , 2010, , 23-27.		2
90	A microstructure approach to the sensitivity and compressibility of some Eastern Canada sensitive clays. Geotechnique, 2010, 60, 353-368.	2.2	75

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91	Yielding and plastic behaviour of Boom clay. Geotechnique, 2010, 60, 657-666.	2.2	48
92	Clays in radioactive waste disposal. Journal of Rock Mechanics and Geotechnical Engineering, 2010, 2, 111-123.	3.7	116
93	Investigating the Microstructure of Compacted Crushed Callovo-Oxfordian Argillite. , 2010, , .		2
94	Calibration of the osmotic technique of controlling suction with respect to temperature using a miniature tensiometer. Canadian Geotechnical Journal, 2010, 47, 359-365.	1.4	18
95	Investigating the time-dependent behaviour of Boom clay under thermomechanical loading. Geotechnique, 2009, 59, 319-329.	2.2	76
96	DISCUSSION: Compaction behaviour of clay. A. TARANTINO and E. DE COL (2008). <i>Géotechnique</i> 58 , No, 3, 199–213. Geotechnique, 2009, 59, 75-77.	2.2	15
97	Geoenvironmental Testing. Geotechnical and Geological Engineering, 2008, 26, 729-749.	0.8	9
98	A model for poreâ€fluidâ€sensitive rock behavior using a weathering state parameter. International Journal for Numerical and Analytical Methods in Geomechanics, 2008, 32, 1927-1953.	1.7	11
99	Determining the unsaturated hydraulic conductivity of a compacted sand–bentonite mixture under constant-volume and free-swell conditions. Physics and Chemistry of the Earth, 2008, 33, S462-S471.	1.2	146
100	Contributions to <i>Géotechnique</i> 1948–2008: Soil behaviour. Geotechnique, 2008, 58, 429-433.	2.2	0
101	An evaluation of the osmotic method of controlling suctiona^—. Geomechanics and Geoengineering, 2008, 3, 1-11.	0.9	62
102	A novel filtration system for polyethylene glycol solutions used in the osmotic method of controlling suction. Canadian Geotechnical Journal, 2008, 45, 421-424.	1.4	11
103	Recent developments in the techniques of controlling and measuring suction in unsaturated soils. , 2008, , 33-52.		28
104	Hydromechanical couplings in confined MX80 bentonite during hydration. , 2008, , 249-255.		5
105	Water retention properties of Boom clay. , 2008, , 229-234.		6
106	Geoenvironmental Testing. , 2008, , 117-137.		0
107	Experimental Investigation on the Time Dependent Behaviour of a Multiphase Chalk. , 2007, , 161-167.		7
108	The Axis-Translation and Osmotic Techniques in Shear Testing of Unsaturated Soils: A Comparison. Soils and Foundations, 2007, 47, 675-684.	1.3	23

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109	Suction effects in deep Boom Clay block samples. Geotechnique, 2007, 57, 239-244.	2.2	84
110	Microstructure Features in the Behaviour of Engineered Barriers for Nuclear Waste Disposal. , 2007, , 11-32.		34
111	Ageing effects in a compacted bentonite: a microstructure approach. Geotechnique, 2006, 56, 291-304.	2.2	307
112	Water Retention Curves of a Non Woven Polyester Geotextile. , 2006, , 1651.		0
113	Water Retention Properties of a Mine Chalk. , 2006, , 1371.		3
114	Application of Vertical Strain Control to Measure Swelling Pressure of Clayey Soils. , 2006, , 928.		2
115	Introduction to the special issue on "lssues in nuclear waste isolation researchâ€: Engineering Geology, 2005, 81, 203.	2.9	Ο
116	Field simulation ofin situwater content and temperature changes due to ground–atmospheric interactions. Geotechnique, 2005, 55, 557-567.	2.2	70
117	Coupled multiphysics problems in geomechanics. Revue Européenne De Génie Civil, 2005, 9, 561-595.	0.0	Ο
118	On the compressibility of deepwater sediments of the Gulf of Guinea. , 2005, , .		6
119	On the collapse behaviour of oil reservoir chalk. Geotechnique, 2004, 54, 415-420.	2.2	37
120	Retention and transport of a hydrocarbon in a silt. Geotechnique, 2003, 53, 83-91.	2.2	22
121	Time-Dependent Behaviour of Oil Reservoir Chalk : A Multiphase Approach. Soils and Foundations, 2003, 43, 131-147.	1.3	38
122	Retention and transport of a hydrocarbon in a silt. Geotechnique, 2003, 53, 83-92.	2.2	4
123	On the high stress compression of bentonites. Canadian Geotechnical Journal, 2002, 39, 812-820.	1.4	131
124	A model for the volume change behavior of heavily compacted swelling clays. Engineering Geology, 2002, 64, 233-250.	2.9	135
125	Temperature effects on the volume change behaviour of Boom clay. Engineering Geology, 2002, 64, 135-145.	2.9	254
126	On the collapse behaviour of oil reservoir chalk. Geotechnique, 2001, 54, 415-420.	2.2	7

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127	Comportement thermomécanique de l'argile de Boom. Comptes Rendus Mecanique, 2000, 328, 457-463.	0.2	4
128	A thermomechanical model for saturated clays. Canadian Geotechnical Journal, 2000, 37, 607-620.	1.4	228
129	On the thermal consolidation of Boom clay. Canadian Geotechnical Journal, 2000, 37, 343-354.	1.4	281
130	The relationship between suction and swelling properties in a heavily compacted unsaturated clay. Engineering Geology, 1998, 50, 31-48.	2.9	350
131	Microstructure and volume change behaviour of soft clays: a boundary element simulation. International Journal for Numerical and Analytical Methods in Geomechanics, 1997, 21, 665-686.	1.7	4
132	Yielding and plastic behaviour of an unsaturated compacted silt. Geotechnique, 1996, 46, 291-311.	2.2	498
133	Microstructure of a compacted silt. Canadian Geotechnical Journal, 1996, 33, 150-158.	1.4	337
134	Some further evidence on a specific effect of silica fume on the pore structure of portland cement mortars. Cement and Concrete Research, 1987, 17, 65-69.	4.6	12
135	Influence de la lyophilisation sur la structure d'une argile sensible du Québec. Clay Minerals, 1984, 19, 151-160.	0.2	111
136	Study of the structure of a sensitive Champlain clay and of its evolution during consolidation. Canadian Geotechnical Journal, 1984, 21, 21-35.	1.4	494
137	Use of the Cryoscan apparatus for observation of freeze-fractured planes of a sensitive Quebec clay in scanning electron microscopy. Canadian Geotechnical Journal, 1982, 19, 111-114.	1.4	77
138	Soil Collapse due to Water Infiltration. , 0, , 149-169.		0
139	The Nature and Survey of Soil Pollution. , 0, , 333-360.		0
140	Drained triaxial testing of shales: insight from the Opalinus Clay. Acta Geotechnica, 0, , 1.	2.9	5