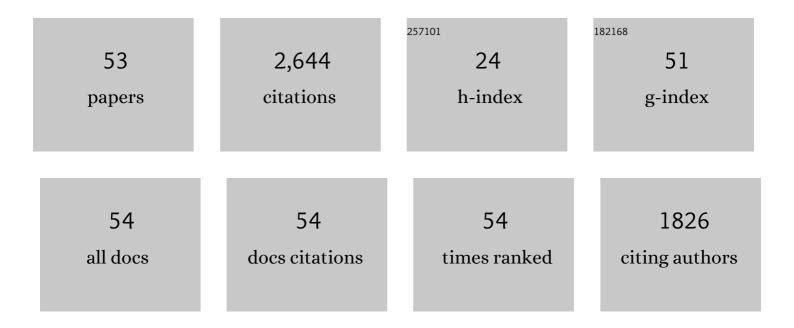
Sebastia Olivella

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Nonisothermal multiphase flow of brine and gas through saline media. Transport in Porous Media, 1994, 15, 271-293.	1.2	331
2	A microstructurally based effective stress for unsaturated soils. Geotechnique, 2010, 60, 913-925.	2.2	312
3	THM-coupled finite element analysis of frozen soil: formulation and application. Geotechnique, 2009, 59, 159-171.	2.2	196
4	A full-scale in situ heating test for high-level nuclear waste disposal: observations, analysis and interpretation. Geotechnique, 2009, 59, 377-399.	2.2	188
5	Coupled hydromechanical modeling of CO2 sequestration in deep saline aquifers. International Journal of Greenhouse Gas Control, 2010, 4, 910-919.	2.3	139
6	Gas flow through clay barriers. Geotechnique, 2008, 58, 157-176.	2.2	116
7	Liquid CO2 injection for geological storage in deep saline aquifers. International Journal of Greenhouse Gas Control, 2013, 14, 84-96.	2.3	116
8	Long term impacts of cold CO2 injection on the caprock integrity. International Journal of Greenhouse Gas Control, 2014, 24, 1-13.	2.3	93
9	Vapour Transport in Low Permeability Unsaturated Soils with Capillary Effects. Transport in Porous Media, 2000, 40, 219-241.	1.2	92
10	Effects of CO2 Compressibility on CO2 Storage in Deep Saline Aquifers. Transport in Porous Media, 2010, 85, 619-639.	1.2	84
11	Induced seismicity in geologic carbon storage. Solid Earth, 2019, 10, 871-892.	1.2	74
12	Coupled Thermo-Hydro-Mechanical and Chemical Analysis of Expansive Clay Subjected to Heating and Hydration. Transport in Porous Media, 2007, 66, 341-372.	1.2	70
13	Fully Coupled Thermo-Hydro-Mechanical Double-Porosity Formulation for Unsaturated Soils. International Journal of Geomechanics, 2016, 16, .	1.3	61
14	THM analysis of a largeâ€scale heating test incorporating material fabric changes. International Journal for Numerical and Analytical Methods in Geomechanics, 2012, 36, 391-421.	1.7	56
15	Hydromechanical characterization of CO2 injection sites. International Journal of Greenhouse Gas Control, 2013, 19, 665-677.	2.3	56
16	Dynamics of water vapor flux and water separation processes during evaporation from a salty dry soil. Journal of Hydrology, 2011, 396, 215-220.	2.3	53
17	Rapid drawdown in slopes and embankments. Water Resources Research, 2008, 44, .	1.7	51
18	Modeling evaporation processes in a saline soil from saturation to oven dry conditions. Hydrology and Earth System Sciences, 2011, 15, 2077-2089.	1.9	49

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#	Article	IF	CITATIONS
19	Geomechanical stability of the caprock during CO2 sequestration in deep saline aquifers. Energy Procedia, 2011, 4, 5306-5313.	1.8	35
20	Multiphase flow and reactive transport model in vadose tailings. Applied Geochemistry, 2009, 24, 1238-1250.	1.4	34
21	Implementation algorithm of a generalised plasticity model for swelling clays. Computers and Geotechnics, 2008, 35, 860-871.	2.3	33
22	Analysis and modelling of longitudinal deformation profiles of tunnels excavated in strain-softening time-dependent rock masses. Computers and Geotechnics, 2020, 125, 103643.	2.3	32
23	Gas injection tests on sand/bentonite mixtures in the laboratory. Experimental results and numerical modelling. Physics and Chemistry of the Earth, 2008, 33, S237-S247.	1.2	27
24	A constitutive law for rock joints considering the effects of suction and roughness on strength parameters. International Journal of Rock Mechanics and Minings Sciences, 2013, 60, 333-344.	2.6	27
25	Gas flow in anisotropic claystone: modelling triaxial experiments. International Journal for Numerical and Analytical Methods in Geomechanics, 2013, 37, 2239-2256.	1.7	25
26	Deformation induced by dissolution of salts in porous media. Physics and Chemistry of the Earth, 2008, 33, S436-S443.	1.2	23
27	A hydro-geochemical analysis of the saturation process with salt water of a bentonite crushed granite rock mixture in an engineered nuclear barrier. Engineering Geology, 2005, 81, 227-245.	2.9	22
28	A review of Beliche Dam. Geotechnique, 2005, 55, 267-285.	2.2	22
29	Swelling in clayey soils induced by the presence of salt crystals. Applied Clay Science, 2010, 47, 105-112.	2.6	20
30	Mass balance errors when solving the convective form of the transport equation in transient flow problems. Water Resources Research, 2004, 40, .	1.7	18
31	Osmosis-induced swelling of Eurobitum bituminized radioactive waste in constant total stress conditions. Journal of Nuclear Materials, 2010, 406, 304-316.	1.3	17
32	Modelling the response of Lechago earth and rockfill dam. Geotechnique, 2011, 61, 387-407.	2.2	17
33	Geomechanical Response of Fractured Reservoirs. Fluids, 2018, 3, 70.	0.8	15
34	3D modelling of strip reinforced MSE walls. Acta Geotechnica, 2021, 16, 711-730.	2.9	15
35	Porosity Variations in Saline Media Induced by Temperature Gradients: Experimental Evidences and Modelling. Transport in Porous Media, 2011, 90, 763-777.	1.2	14
36	Deformation and Flow Driven by Osmotic Processes in Porous Materials: Application to Bituminised Waste Materials. Transport in Porous Media, 2011, 86, 635-662.	1.2	13

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#	Article	IF	CITATIONS
37	Hydro-mechanical modelling and analysis of multi-stage tunnel excavations using a smoothed excavation method. Computers and Geotechnics, 2021, 135, 104150.	2.3	12
38	Applications of multiphysical geomechanics in underground nuclear waste storage. European Journal of Environmental and Civil Engineering, 2009, 13, 937-962.	1.0	11
39	Thermo-hydraulic behaviour of the vadose zone in sulphide tailings at Iberian Pyrite Belt: Waste characterization, monitoring and modelling. Engineering Geology, 2013, 165, 154-170.	2.9	10
40	Osmosis-induced water uptake by Eurobitum bituminized radioactive waste and pressure development in constant volume conditions. Journal of Nuclear Materials, 2013, 432, 348-365.	1.3	10
41	Deformation of bitumen based porous material: Experimental and numerical analysis. Journal of Nuclear Materials, 2010, 404, 144-153.	1.3	8
42	Coupled solid-fluid response of deep tunnels excavated in saturated rock masses with a time-dependent plastic behaviour. Applied Mathematical Modelling, 2021, 100, 508-535.	2.2	8
43	Coupled THM modelling of engineered barriers for the final disposal of spent nuclear fuel isolation. Geological Society Special Publication, 2017, 443, 235-251.	0.8	7
44	Modelling engineered barriers for spent nuclear fuel repository using a double-structure model for pellets. Environmental Geotechnics, 2020, 7, 72-94.	1.3	7
45	Numerical analysis of landslides caused by rainfall in a reduced physical slope model. European Journal of Environmental and Civil Engineering, 2021, 25, 1449-1470.	1.0	6
46	Thermo-hydro-mechanical model of the Canister Retrieval Test. Physics and Chemistry of the Earth, 2011, 36, 1806-1816.	1.2	5
47	Effect of thermo-coupled processes on the behaviour of a clay barrier submitted to heating and hydration. Anais Da Academia Brasileira De Ciencias, 2010, 82, 153-168.	0.3	4
48	Analysis of the Thmc Behaviour of Compacted Swelling Clay for Radioactive Waste Isolation. Elsevier Geo-Engineering Book Series, 2004, 2, 317-322.	0.0	3
49	Simulation of a hydromechanical mock-up test on GMZ01 bentonite with double structure approach. European Journal of Environmental and Civil Engineering, 2018, 22, s364-s380.	1.0	3
50	THM Analysis of a Heating Test in a Fractured Tuff. Elsevier Geo-Engineering Book Series, 2004, 2, 181-186.	0.0	2
51	Two-phase flow effects on the CO2injection pressure evolution and implications for the caprock geomechanical stability. E3S Web of Conferences, 2016, 9, 04007.	0.2	1
52	THMC coupling in partially saturated geomaterials. Revue Européenne De Génie Civil, 2005, 9, 747-765.	0.0	1
53	Formulation for the THMC Analysis of Clayey Materials: Application to Radioactive Waste Disposal. , 2008, , .		0