

# Abdelmalek Bouazza

## List of Publications by Year in descending order

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Version: 2024-02-01

70  
papers

2,137  
citations

218592

26  
h-index

243529

44  
g-index

73  
all docs

73  
docs citations

73  
times ranked

1054  
citing authors

#	ARTICLE	IF	CITATIONS
1	Improvement of soft soils using geogrid encased stone columns. <i>Geotextiles and Geomembranes</i> , 2009, 27, 167-175.	2.3	224
2	Technological advances and applications of geothermal energy pile foundations and their feasibility in Australia. <i>Renewable and Sustainable Energy Reviews</i> , 2010, 14, 2683-2696.	8.2	135
3	Effect of particle size distribution on the bio-cementation of coarse aggregates. <i>Acta Geotechnica</i> , 2018, 13, 1019-1025.	2.9	117
4	Posttemperature Effects on Shaft Capacity of a Full-Scale Geothermal Energy Pile. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2015, 141, .	1.5	103
5	Construction of geogrid encased stone columns: A new proposal based on laboratory testing. <i>Geotextiles and Geomembranes</i> , 2010, 28, 108-118.	2.3	98
6	Serviceability design for geosynthetic reinforced column supported embankments. <i>Geotextiles and Geomembranes</i> , 2017, 45, 261-279.	2.3	87
7	Axial and Radial Thermal Responses of a Field-Scale Energy Pile under Monotonic and Cyclic Temperature Changes. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2018, 144, .	1.5	83
8	Gas Permeability of Partially Hydrated Geosynthetic Clay Liners. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2004, 130, 93-102.	1.5	81
9	An apparatus to measure gas permeability of geosynthetic clay liners. <i>Geotextiles and Geomembranes</i> , 2003, 21, 85-101.	2.3	71
10	An experimental investigation of the influence of intermittent and continuous operating modes on the thermal behaviour of a full scale geothermal energy pile. <i>Geomechanics for Energy and the Environment</i> , 2016, 8, 8-29.	1.2	65
11	Improvement of Coarse Sand Engineering Properties by Microbially Induced Calcite Precipitation. <i>Geomicrobiology Journal</i> , 2018, 35, 887-897.	1.0	57
12	A novel computational approach for large deformation and post-failure analyses of segmental retaining wall systems. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2014, 38, 1321-1340.	1.7	56
13	Analytical modelling of gas leakage rate through a geosynthetic clay liner-geomembrane composite liner due to a circular defect in the geomembrane. <i>Geotextiles and Geomembranes</i> , 2008, 26, 122-129.	2.3	53
14	Ultimate bearing capacity of energy piles in dry and saturated sand. <i>Acta Geotechnica</i> , 2019, 14, 869-879.	2.9	53
15	Effects of Cyclic Temperature Variations on Thermal Response of an Energy Pile under a Residential Building. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2019, 145, .	1.5	50
16	Methane hotspot localization and visualization at a large-scale Xi'an landfill in China: Effective tool for landfill gas management. <i>Journal of Environmental Management</i> , 2018, 225, 232-241.	3.8	49
17	Unconfined Compressive Strength and Visualization of the Microstructure of Coarse Sand Subjected to Different Biocementation Levels. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2019, 145, .	1.5	48
18	Fluid loss as a quick method to evaluate hydraulic conductivity of geosynthetic clay liners under acidic conditions. <i>Canadian Geotechnical Journal</i> , 2014, 51, 158-163.	1.4	45

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19	Near-field ground thermal response to heating of a geothermal energy pile: Observations from a field test. <i>Soils and Foundations</i> , 2015, 55, 1412-1426.	1.3	43
20	Gas flow unified measurement system for sequential measurement of gas diffusion and gas permeability of partially hydrated geosynthetic clay liners. <i>Canadian Geotechnical Journal</i> , 2016, 53, 1000-1012.	1.4	39
21	Numerical investigation of the mechanism of granular flow impact on rigid control structures. <i>Acta Geotechnica</i> , 2021, 16, 2505-2527.	2.9	38
22	Thermal conductivity of geosynthetic clay liners. <i>Canadian Geotechnical Journal</i> , 2016, 53, 1510-1521.	1.4	36
23	Field investigation of temporal variation of volatile organic compounds at a landfill in Hangzhou, China. <i>Environmental Science and Pollution Research</i> , 2019, 26, 18162-18180.	2.7	31
24	Axial and radial thermal responses of energy pile under six storey residential building. <i>Canadian Geotechnical Journal</i> , 2019, 56, 1019-1033.	1.4	31
25	Numerical experiment-artificial intelligence approach to develop empirical equations for predicting leakage rates through GM/GCL composite liners. <i>Geotextiles and Geomembranes</i> , 2014, 42, 236-245.	2.3	27
26	Factors affecting the bio-cementing process of coarse sand. <i>Proceedings of the Institution of Civil Engineers: Ground Improvement</i> , 2019, 172, 25-36.	0.7	27
27	Biogrouting coarse materials using soil-lift treatment strategy. <i>Canadian Geotechnical Journal</i> , 2016, 53, 2080-2085.	1.4	26
28	Geosynthetic reinforced column supported embankments and the role of ground improvement installation effects. <i>Canadian Geotechnical Journal</i> , 2018, 55, 792-809.	1.4	25
29	Thermomechanical Behavior of Saturated Geosynthetic Clay Liners. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2013, 139, 539-547.	1.5	24
30	Kinematics of soil arching in piled embankments. <i>Geotechnique</i> , 2019, 69, 941-958.	2.2	22
31	Effect of nearby piles and soil properties on thermal behaviour of a field-scale energy pile. <i>Canadian Geotechnical Journal</i> , 2021, 58, 1351-1364.	1.4	22
32	Numerical Simulation of Geosynthetic Clay Liner Desiccation under High Thermal Gradients and Low Overburden Stress. <i>International Journal of Geomechanics</i> , 2019, 19, .	1.3	19
33	Effect of particle rolling resistance on drained and undrained behaviour of silty sand. <i>Acta Geotechnica</i> , 2021, 16, 2657-2682.	2.9	19
34	Numerical Characterization of Advective Gas Flow through GM/GCL Composite Liners Having a Circular Defect in the Geomembrane. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2009, 135, 1661-1671.	1.5	18
35	Cross-sectional thermo-mechanical responses of energy piles. <i>Computers and Geotechnics</i> , 2021, 138, 104320.	2.3	17
36	Strengthening crushed coarse aggregates using bio-grouting. <i>Geomechanics and Geoengineering</i> , 2019, 14, 59-70.	0.9	16

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37	Improving the engineering properties of a soft marine clay with forsteritic olivine. European Journal of Environmental and Civil Engineering, 2022, 26, 519-546.	1.0	15
38	Influence of Cyclic Stress Pulse Shapes on Filtration Behavior of Railway Subballast. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2012, 138, 230-235.	1.5	13
39	Evaluating leakages through GMB/GCL composite liners considering random hole distributions in wrinkle networks. Geotextiles and Geomembranes, 2018, 46, 131-145.	2.3	13
40	Measurement of three-dimensional displacement field in piled embankments using synchrotron X-ray tomography. Canadian Geotechnical Journal, 2019, 56, 885-892.	1.4	11
41	Using neutron spectroscopy to measure soil-water retention at high suction ranges. Canadian Geotechnical Journal, 2019, 56, 1999-2003.	1.4	11
42	Thermal resistance analysis of an energy pile and adjacent soil using radial temperature gradients. Renewable Energy, 2022, 190, 1066-1077.	4.3	11
43	Interactions of Per- and Polyfluoralkyl Substances (PFAS) with Landfill Liners. , 2020, 1, .		10
44	Behavior of Geosynthetic-Reinforced Piled Embankments with Defective Piles. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2019, 145, 04019090.	1.5	8
45	Soil Thermal Response to Temperature Cycles and End Boundary Conditions of Energy Piles. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2022, 148, .	1.5	8
46	An Overview of Ocean Thermal and Geothermal Energy Conversion Technologies and Systems. International Journal of Air-Conditioning and Refrigeration, 2016, 24, 1630006.	0.8	7
47	Axial Load Transfer Analyses of Energy Piles at a Rock Site. Geotechnical and Geological Engineering, 2020, 38, 4711-4733.	0.8	7
48	Thermohydraulic Responses of Unsaturated Sand around a Model Energy Pile. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2021, 147, .	1.5	6
49	Construction Quality Control for Asphalt Concrete Hydraulic Barriers. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2003, 129, 219-223.	1.5	5
50	Application of Particle Stiffness Fabric Tensor for Modeling Inherent Anisotropy in Rocks. Rock Mechanics and Rock Engineering, 2021, 54, 3077-3093.	2.6	5
51	Assessment of Bentonite Compatibility with Salinity Using Centrifugation-Based Water Retention. Geotechnical Testing Journal, 2019, 42, 275-295.	0.5	5
52	Durability of carbon-fibre-reinforced polymer strands in ground anchors. Environmental Geotechnics, 2018, 5, 356-370.	1.3	4
53	Model tests on biogROUTED granular columns in soft soil. Canadian Geotechnical Journal, 2021, 58, 1791-1800.	1.4	4
54	Comparison of Microbially Induced Carbonate Precipitation with Ordinary Portland Cement Producing Macroporous Pervious Concrete. Journal of Materials in Civil Engineering, 2021, 33, .	1.3	4

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55	Investigation of methane fluxes from temporary cover of Xi'an Jiangcungou landfill, China. Environmental Geotechnics, 0, , 1-11.	1.3	4
56	Thermo-energy performance of neighbouring energy piles. Soils and Rocks, 2022, 45, 1-10.	0.2	4
57	Numerical simulation of the progressive development of soil arching in column supported embankments. Canadian Geotechnical Journal, 0, , .	1.4	3
58	Temperature Variations of a Geomembrane Liner in a Municipal Solid Waste Landfill from Construction to Closure. Journal of the Indian Institute of Science, 2021, 101, 725-743.	0.9	3
59	Soil Temperature and Moisture Variation for the Different Operating Modes of a Model Energy Pile. , 2016, , .		2
60	A simplified design method for energy piles. Acta Geotechnica, 2019, 14, 1605-1613.	2.9	2
61	New insights into soil arching behaviour in column-supported embankments. Canadian Geotechnical Journal, 2022, 59, 901-921.	1.4	2
62	Soil thermal responses around a field-scale energy pile. E3S Web of Conferences, 2020, 205, 05027.	0.2	1
63	Estimation of fluorotelomer alcohol emissions from landfill cover systems. Environmental Geotechnics, 0, , 1-12.	1.3	1
64	Assessment of Some Hydraulic Properties of Slime Slurries from Sand Mining Pits Using a Modified Triaxial Cell. Geotechnical and Geological Engineering, 2009, 27, 115-121.	0.8	0
65	Reply to the discussion by Wu and Hu on "Numerical assessment of equivalent diameter equations for prefabricated vertical drains". Canadian Geotechnical Journal, 2013, 50, 805-805.	1.4	0
66	Methods of Soil Environmental Remediation. , 2013, , 419-457.		0
67	Gas migration through geomembrane/ geosynthetic clay liner composite liner with a defect in the geomembrane. Japanese Geotechnical Society Special Publication, 2016, 2, 1972-1977.	0.2	0
68	Discussion of "Progressive Development of Two-Dimensional Soil Arching with Displacement" by Jie Han, Fei Wang, Mahdi Al-Naddaf, and Chao Xu. International Journal of Geomechanics, 2019, 19, 07018021.	1.3	0
69	The Nature and Survey of Soil Pollution. , 0, , 333-360.		0
70	Kinematics of Piled Embankments with Defective Piles. Springer Series in Geomechanics and Geoengineering, 2018, , 1682-1686.	0.0	0