

# Marolo Alfaro

## List of Publications by Year in descending order

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57  
papers

1,457  
citations

331259

21  
h-index

329751

37  
g-index

58  
all docs

58  
docs citations

58  
times ranked

836  
citing authors

#	ARTICLE	IF	CITATIONS
1	Modified Cam-Clay modelling of temperature effects in clays. Canadian Geotechnical Journal, 2001, 38, 608-621.	1.4	203
2	Smear Effects of Vertical Drains on Soft Bangkok Clay. Journal of Geotechnical Engineering, 1991, 117, 1509-1530.	0.4	152
3	Interaction between cohesive-frictional soil and various grid reinforcements. Geotextiles and Geomembranes, 1993, 12, 327-349.	2.3	81
4	Soil-Geogrid Reinforcement Interaction by Pullout and Direct Shear Tests. Geotechnical Testing Journal, 1995, 18, 157-167.	0.5	81
5	Deformations and ground temperatures at a road embankment in northern Canada. Canadian Geotechnical Journal, 2014, 51, 260-271.	1.4	74
6	Pullout Interaction Mechanism of Geogrid Strip Reinforcement. Geosynthetics International, 1995, 2, 679-698.	1.5	61
7	Experimental and numerical studies of the performance of the new reinforcement system under pull-out conditions. Geotextiles and Geomembranes, 2016, 44, 70-80.	2.3	61
8	Improvement of soft Bangkok clay using vertical drains. Geotextiles and Geomembranes, 1993, 12, 615-663.	2.3	58
9	Laboratory studies on fracturing of low-permeability soils. Canadian Geotechnical Journal, 2001, 38, 303-315.	1.4	57
10	Prediction of vertical-band-drain performance by the finite-element method. Geotextiles and Geomembranes, 1993, 12, 567-586.	2.3	39
11	Large-scale direct shear testing of compacted frozen soil under freezing and thawing conditions. Cold Regions Science and Technology, 2018, 151, 138-147.	1.6	38
12	Interaction behaviour of steel grid reinforcements in a clayey sand. Geotechnique, 1993, 43, 589-603.	2.2	36
13	Case Study of Degrading Permafrost beneath a Road Embankment. Journal of Cold Regions Engineering - ASCE, 2009, 23, 93-111.	0.5	36
14	Compression and strength of dense sand at high pressures and elevated temperatures. Canadian Geotechnical Journal, 2004, 41, 1206-1212.	1.4	35
15	Performance of the new reinforcement system in the increase of shear strength of typical geogrid interface with soil. Geotextiles and Geomembranes, 2016, 44, 457-462.	2.3	35
16	Inverse Analysis of Geotechnical Parameters on Improved Soft Bangkok Clay. Journal of Geotechnical Engineering, 1992, 118, 1012-1030.	0.4	32
17	Pullout Tests Using Steel Grid Reinforcements with Low-Quality Backfill. Journal of Geotechnical Engineering, 1992, 118, 1047-1062.	0.4	30
18	Large-scale interface shear testing of sandbag dyke materials. Geosynthetics International, 2007, 14, 119-126.	1.5	27

#	ARTICLE	IF	CITATIONS
19	Review of Effectiveness and Costs of Strategies to Improve Roadbed Stability in Permafrost Regions. <i>Journal of Cold Regions Engineering - ASCE</i> , 2013, 27, 109-131.	0.5	25
20	Behavior of a welded wire wall with poor quality, cohesive friction backfills on soft Bangkok clay: a case study. <i>Canadian Geotechnical Journal</i> , 1991, 28, 860-880.	1.4	22
21	Forecasting Ground Temperatures under a Highway Embankment on Degrading Permafrost. <i>Journal of Cold Regions Engineering - ASCE</i> , 2016, 30, .	0.5	22
22	Wetting-drying behaviour of geogrid-reinforced clay under working load conditions. <i>Geosynthetics International</i> , 2010, 17, 144-156.	1.5	21
23	Interaction of lateritic soil and steel grid reinforcement. <i>Canadian Geotechnical Journal</i> , 1993, 30, 376-384.	1.4	20
24	Fracturing in low-permeability soils for remediation of contaminated ground. <i>Canadian Geotechnical Journal</i> , 2001, 38, 316-327.	1.4	18
25	Thermal conductivities of frozen and unfrozen soils at three project sites in northern Manitoba. <i>Cold Regions Science and Technology</i> , 2017, 140, 30-38.	1.6	18
26	Calibration of discrete element parameters of crop residues and their interfaces with soil. <i>Computers and Electronics in Agriculture</i> , 2021, 188, 106349.	3.7	18
27	Dilatant stresses at the interface of granular fills and geogrid strip reinforcements. <i>Geosynthetics International</i> , 2005, 12, 239-252.	1.5	17
28	Deformation of Reinforced Soil Wall-Embankment System on Soft Clay Foundation. <i>Soils and Foundations</i> , 1997, 37, 33-46.	1.3	16
29	Pullout Resistance of Steel Geogrids with Weathered Clay as Backfill Material. <i>Geotechnical Testing Journal</i> , 1992, 15, 33-46.	0.5	16
30	Semi-empirical elastic-viscoplastic model for clay. <i>Canadian Geotechnical Journal</i> , 2016, 53, 1583-1599.	1.4	15
31	Geotechnical Properties of Fibrous and Amorphous Peats for the Construction of Road Embankments. <i>Journal of Materials in Civil Engineering</i> , 2018, 30, .	1.3	10
32	Improving the Properties of Soft Clay Using Cement, Slag, and Nanosilica: Experimental and Statistical Modeling. <i>Journal of Materials in Civil Engineering</i> , 2022, 34, .	1.3	10
33	Instability of dykes at Seven Sisters Generating Station. <i>Canadian Geotechnical Journal</i> , 2004, 41, 959-971.	1.4	9
34	Laboratory-scale model studies on corduroy-reinforced road embankments on peat foundations using transparent soil. <i>Transportation Geotechnics</i> , 2018, 16, 1-10.	2.0	9
35	Performance of highway embankments in the Arctic constructed under winter conditions. <i>Canadian Geotechnical Journal</i> , 2021, 58, 722-736.	1.4	9
36	Thermal Regime of Highway Embankments in the Arctic: Field Observations and Numerical Simulations. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2021, 147, .	1.5	7

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37	Modelling a Highway Embankment on Peat Foundations Using Transparent Soil. <i>Procedia Engineering</i> , 2016, 143, 363-370.	1.2	6
38	Coupled hydromechanical (H-M) performance of in situ shaft sealing components for nuclear waste disposal. <i>Canadian Geotechnical Journal</i> , 2019, 56, 1638-1649.	1.4	5
39	Seasonal deformations under a road embankment on degrading permafrost in Northern Canada. <i>Environmental Geotechnics</i> , 2020, 7, 163-174.	1.3	5
40	Degradation of shaley limestone riprap An earlier version of this paper was presented at the Canadian Geotechnical Conference in September 2003.. <i>Canadian Geotechnical Journal</i> , 2007, 44, 1265-1272.	1.4	4
41	Evaluating shear mobilization in rockfill columns used for riverbank stabilization. <i>Canadian Geotechnical Journal</i> , 2009, 46, 976-986.	1.4	4
42	Segregation Potential from a Highway Embankment on Thawed Permafrost. , 2012, , .		3
43	Performance of Road Embankments on Seasonally-Frozen Peat Foundations with and without Corduroy Bases. <i>Journal of Performance of Constructed Facilities</i> , 2016, 30, 04016051.	1.0	3
44	Adaptation Strategies for Road Embankments on Permafrost Affected by Climate Warming. , 2006, , .		2
45	Highway Embankment on Degrading Permafrost. , 2009, , .		2
46	Swelling pressures and hydration times in a clay seal. <i>Environmental Geotechnics</i> , 2022, 9, 298-309.	1.3	2
47	Laboratory Performance of Geogrid-reinforced Soils Subjected to Freezing and Thawing. <i>Geotechnical Testing Journal</i> , 2012, 35, 784-795.	0.5	2
48	Protecting Arctic Infrastructure as the Permafrost Degrades. , 2021, , .		1
49	Measuring the load–deformation response of rockfill columns by a full-scale field test on a natural riverbank. <i>Canadian Geotechnical Journal</i> , 2011, 48, 1032-1043.	1.4	0
50	Monitored Thermal Performance of Varying Embankment Thickness on Permafrost Foundations. , 2019, , .		0
51	Preliminary Investigation for Mechanical Degradation of Permafrost Embankment: Inuvik Tuktoyaktuk Highway Case Study. , 2019, , .		0
52	Experimental Investigation of Cement Mixing to Improve Lake Agassiz Clay. , 2020, , .		0
53	Construction and Post-Construction Deformation Analysis of an MSE Wall Using Terrestrial Laser Scanning. , 2020, , .		0
54	Discrete Element Modelling of Undrained Consolidated Triaxial Test on Cohesive Soils. , 2020, , .		0

#	ARTICLE	IF	CITATIONS
55	The Process of Continual Improvement of Engineering Programs at the University of Manitoba: Now and Next. Proceedings of the Canadian Engineering Education Association (CEEA), 0, , .	0.2	0
56	WARMING CLIMATE DAMAGES NORTHERN ROADS. Canadian Young Scientist Journal, 2015, 8, .	0.0	0
57	ACCREDITATION, LICENSING, AND SPECIALIZATION FOR EMPLOYMENT. Proceedings of the Canadian Engineering Education Association (CEEA), 0, , .	0.2	0