Didier Marot

List of Publications by Year
in descending order

31 papers	1,035 citations	430874 18 h-index	501196 28 g-index
35 all docs	35 docs citations	35 times ranked	398 citing authors

#	Article	IF	Citations
1	A DEM study of the effect of the loss of fine particles on the mechanical behavior of gap-graded soils. Geomechanics for Energy and the Environment, 2022, 31, 100305.	2.5	6
2	Internal erosion by suffusion on cohesionless gap-graded soils: Model and sensibility analysis. Geomechanics for Energy and the Environment, 2022, , 100313.	2.5	4
3	A new Delaunay triangulation-based approach to characterize the pore network in granular materials. Acta Geotechnica, 2021, 16, 2111-2129.	5.7	10
4	Modelling the poroelastoplastic behaviour of soils subjected to internal erosion by suffusion. International Journal for Numerical and Analytical Methods in Geomechanics, 2020, 44, 117-136.	3.3	14
5	A method to assess the suffusion susceptibility of low permeability core soils in compacted dams based on construction data. European Journal of Environmental and Civil Engineering, 2019, 23, 626-644.	2.1	9
6	Modelling of internal erosion based on mixture theory: General framework and a case study of soil suffusion. International Journal for Numerical and Analytical Methods in Geomechanics, 2019, 43, 2407-2430.	3.3	10
7	Micro-scale investigation of the role of finer grains in the behavior of bidisperse granular materials. Granular Matter, 2019, 21, 1.	2.2	30
8	Assessing Suffusion Susceptibility of Soils by Using Construction Data: Application to a Compacted Till Dam Core. Lecture Notes in Civil Engineering, 2019, , 313-324.	0.4	0
9	New Apparatus for Assessing Soil Suffusion Susceptibility Under Two Flow Directions. Lecture Notes in Civil Engineering, 2019, , 69-80.	0.4	3
10	Suffusion susceptibility investigation by energy-based method and statistical analysis. Canadian Geotechnical Journal, 2018, 55, 57-68.	2.8	23
11	Internal Erosion. , 2018, , 291-334.		1
12	Investigation of Spatial Scale Effects on Suffusion Susceptibility. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2018, 144, .	3.0	40
13	Effects of Hydraulic Loading History on Suffusion Susceptibility of Cohesionless Soils. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2017, 143, .	3.0	77
14	Assessing the susceptibility of gap-graded soils to internal erosion: proposition of a new experimental methodology. Natural Hazards, 2016, 83, 365-388.	3.4	72
15	A description of internal erosion by suffusion and induced settlements on cohesionless granular matter. Acta Geotechnica, 2015, 10, 735-748.	5.7	71
16	Internal erosion in granular media: direct numerical simulations and energy interpretation. Hydrological Processes, 2015, 29, 2149-2163.	2.6	57
17	A comparative analysis of interface erosion tests. Natural Hazards, 2013, 67, 937-950.	3.4	12
18	Erodibility characterisation for suffusion process in cohesive soil by two types of hydraulic loading. Houille Blanche, 2012, 98, 54-60.	0.3	22

#	Article	IF	Citations
19	Influence of angularity of coarse fraction grains on internal erosion process. Houille Blanche, 2012, 98, 47-53.	0.3	25
20	Study of scale effect in an internal erosion mechanism: centrifuge model and energy analysis. European Journal of Environmental and Civil Engineering, 2012, 16, 1-19.	2.1	48
21	Investigation of interface erosion rate by Jet Erosion Test and statistical analysis. European Journal of Environmental and Civil Engineering, 2011, 15, 1167-1185.	2.1	18
22	Micromechanical modeling of internal erosion. European Journal of Environmental and Civil Engineering, 2011, 15, 1207-1224.	2.1	38
23	Suffusion tests on cohesionless granular matter. European Journal of Environmental and Civil Engineering, 2011, 15, 799-817.	2.1	24
24	Multichannel optical sensor to quantify particle stability under seepage flow. Canadian Geotechnical Journal, 2011, 48, 1772-1787.	2.8	19
25	Energy-Based Method for Providing Soil Surface Erodibility Rankings. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2011, 137, 1290-1293.	3.0	47
26	Investigation of interface erosion rate by Jet Erosion Test and statistical analysis. European Journal of Environmental and Civil Engineering, 2011, 15, 1167-1185.	2.1	1
27	Micromechanical modeling of internal erosion. European Journal of Environmental and Civil Engineering, 2011, 15, 1207-1224.	2.1	2
28	Suffusion tests on cohesionless granular matter. Experimental study. European Journal of Environmental and Civil Engineering, 2011, 15, 799-817.	2.1	31
29	Internal Flow Effects on Isotropic Confined Sand-Clay Mixtures. Soil and Sediment Contamination, 2009, 18, 294-306.	1.9	51
30	Experimental Parametric Study of Suffusion and Backward Erosion. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2008, 134, 57-67.	3.0	234
31	Analysis of volumetric internal erosion in cohesionless soils: Model, experiments and simulations. International Journal for Numerical and Analytical Methods in Geomechanics, 0, , .	3.3	7