

Didier Marot

List of Publications by Year in descending order

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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	Experimental Parametric Study of Suffusion and Backward Erosion. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2008, 134, 57-67.	3.0	234
2	Effects of Hydraulic Loading History on Suffusion Susceptibility of Cohesionless Soils. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2017, 143, .	3.0	77
3	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
4	A description of internal erosion by suffusion and induced settlements on cohesionless granular matter. Acta Geotechnica, 2015, 10, 735-748.	5.7	71
5	Internal erosion in granular media: direct numerical simulations and energy interpretation. Hydrological Processes, 2015, 29, 2149-2163.	2.6	57
6	Internal Flow Effects on Isotropic Confined Sand-Clay Mixtures. Soil and Sediment Contamination, 2009, 18, 294-306.	1.9	51
7	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
8	Energy-Based Method for Providing Soil Surface Erodibility Rankings. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2011, 137, 1290-1293.	3.0	47
9	Investigation of Spatial Scale Effects on Suffusion Susceptibility. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2018, 144, .	3.0	40
10	Micromechanical modeling of internal erosion. European Journal of Environmental and Civil Engineering, 2011, 15, 1207-1224.	2.1	38
11	Suffusion tests on cohesionless granular matter. Experimental study. European Journal of Environmental and Civil Engineering, 2011, 15, 799-817.	2.1	31
12	Micro-scale investigation of the role of finer grains in the behavior of bidisperse granular materials. Granular Matter, 2019, 21, 1.	2.2	30
13	Influence of angularity of coarse fraction grains on internal erosion process. Houille Blanche, 2012, 98, 47-53.	0.3	25
14	Suffusion tests on cohesionless granular matter. European Journal of Environmental and Civil Engineering, 2011, 15, 799-817.	2.1	24
15	Suffusion susceptibility investigation by energy-based method and statistical analysis. Canadian Geotechnical Journal, 2018, 55, 57-68.	2.8	23
16	Erodibility characterisation for suffusion process in cohesive soil by two types of hydraulic loading. Houille Blanche, 2012, 98, 54-60.	0.3	22
17	Multichannel optical sensor to quantify particle stability under seepage flow. Canadian Geotechnical Journal, 2011, 48, 1772-1787.	2.8	19
18	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

#	ARTICLE	IF	CITATIONS
19	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
20	A comparative analysis of interface erosion tests. Natural Hazards, 2013, 67, 937-950.	3.4	12
21	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
22	A new Delaunay triangulation-based approach to characterize the pore network in granular materials. Acta Geotechnica, 2021, 16, 2111-2129.	5.7	10
23	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
24	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
25	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
26	Internal erosion by suffusion on cohesionless gap-graded soils: Model and sensibility analysis. Geomechanics for Energy and the Environment, 2022, , 100313.	2.5	4
27	New Apparatus for Assessing Soil Suffusion Susceptibility Under Two Flow Directions. Lecture Notes in Civil Engineering, 2019, , 69-80.	0.4	3
28	Micromechanical modeling of internal erosion. European Journal of Environmental and Civil Engineering, 2011, 15, 1207-1224.	2.1	2
29	Internal Erosion. , 2018, , 291-334.		1
30	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
31	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