

# Michael C R Davies

## List of Publications by Year in descending order

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43  
papers

2,079  
citations

257450

24  
h-index

276875

41  
g-index

45  
all docs

45  
docs citations

45  
times ranked

1303  
citing authors

#	ARTICLE	IF	CITATIONS
1	The effect of rise in mean annual temperature on the stability of rock slopes containing ice-filled discontinuities. <i>Permafrost and Periglacial Processes</i> , 2001, 12, 137-144.	3.4	257
2	Fault Rupture Propagation through Sand: Finite-Element Analysis and Validation through Centrifuge Experiments. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2007, 133, 943-958.	3.0	226
3	The assessment of potential geotechnical hazards associated with mountain permafrost in a warming global climate. <i>Permafrost and Periglacial Processes</i> , 2001, 12, 145-156.	3.4	144
4	Mechanical Reinforcement of Soil by Willow Roots: Impacts of Root Properties and Root Failure Mechanism. <i>Soil Science Society of America Journal</i> , 2009, 73, 1276-1285.	2.2	128
5	Centrifuge modelling of normal fault-foundation interaction. <i>Bulletin of Earthquake Engineering</i> , 2008, 6, 585-605.	4.1	112
6	Material stiffness, branching pattern and soil matric potential affect the pullout resistance of model root systems. <i>European Journal of Soil Science</i> , 2007, 58, 1471-1481.	3.9	110
7	Centrifuge modelling of reverse fault-foundation interaction. <i>Bulletin of Earthquake Engineering</i> , 2008, 6, 607-628.	4.1	110
8	An investigation of periglacial slope stability in relation to soil properties based on physical modelling in the geotechnical centrifuge. <i>Geomorphology</i> , 2008, 93, 437-459.	2.6	67
9	Solifluction processes on permafrost and non-permafrost slopes: results of a large-scale laboratory simulation. <i>Permafrost and Periglacial Processes</i> , 2008, 19, 359-378.	3.4	66
10	Rates and processes of periglacial solifluction: an experimental approach. <i>Earth Surface Processes and Landforms</i> , 1997, 22, 849-868.	2.5	64
11	Numerical analyses of fault-foundation interaction. <i>Bulletin of Earthquake Engineering</i> , 2008, 6, 645-675.	4.1	63
12	Normal Fault Rupture Interaction with Strip Foundations. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2009, 135, 359-370.	3.0	56
13	Laboratory simulation of periglacial solifluction: Significance of porewater pressures, moisture contents and undrained shear strengths during soil thawing. <i>Permafrost and Periglacial Processes</i> , 1995, 6, 293-311.	3.4	53
14	Centrifuge modelling of soil slopes reinforced with vegetation. <i>Canadian Geotechnical Journal</i> , 2010, 47, 1415-1430.	2.8	51
15	Soft-sediment deformation during thawing of ice-rich frozen soils: results of scaled centrifuge modelling experiments. <i>Sedimentology</i> , 2000, 47, 687-700.	3.1	47
16	Scaled physical modelling of mass movement processes on thawing slopes. <i>Permafrost and Periglacial Processes</i> , 2001, 12, 125-135.	3.4	43
17	Gelifluction: viscous flow or plastic creep?. <i>Earth Surface Processes and Landforms</i> , 2003, 28, 1289-1301.	2.5	42
18	Laboratory measurement of the shear strength of ice-filled rock joints. <i>Annals of Glaciology</i> , 2000, 31, 463-467.	1.4	41

#	ARTICLE	IF	CITATIONS
19	Centrifuge modelling of soil slopes containing model plant roots. Canadian Geotechnical Journal, 2012, 49, 1-17.	2.8	40
20	Resistance of simple plant root systems to uplift loads. Canadian Geotechnical Journal, 2010, 47, 78-95.	2.8	36
21	Field instrumentation for real-time monitoring of periglacial solifluction. Permafrost and Periglacial Processes, 2007, 18, 105-114.	3.4	31
22	Centrifuge tests of embankments on strengthened and unstrengthened clay foundations. Geotechnique, 1985, 35, 425-441.	4.0	27
23	A study of low-energy dynamic compaction: field trials and centrifuge modelling. Geotechnique, 2000, 50, 675-681.	4.0	26
24	Gelifluction: Observations from Large-Scale Laboratory Simulations. Arctic, Antarctic, and Alpine Research, 2000, 32, 202-207.	1.1	25
25	Gelifluction: Observations from Large-Scale Laboratory Simulations. Arctic, Antarctic, and Alpine Research, 2000, 32, 202.	1.1	24
26	An assessment of miniaturised electrical imaging equipment to monitor pollution plume evolution in scaled centrifuge modelling. Engineering Geology, 2001, 60, 83-94.	6.3	23
27	Centrifuge modelling of hillslope debris flow initiation. Catena, 2012, 92, 162-171.	5.0	23
28	An experimental design for laboratory simulation of periglacial solifluction processes. Earth Surface Processes and Landforms, 1996, 21, 67-75.	2.5	22
29	Application of electrical imaging to leachate plume evolution studies under in-situ and model conditions. Environmental Geology, 2005, 47, 907-914.	1.2	18
30	Some key topographic and material controls on debris flows in Scotland. Quarterly Journal of Engineering Geology and Hydrogeology, 2015, 48, 212-223.	1.4	17
31	Centrifuge modelling of capillary rise. Engineering Geology, 2001, 60, 95-106.	6.3	16
32	Geotechnical centrifuge modelling of gelifluction processes: validation of a new approach to periglacial slope studies. Annals of Glaciology, 2000, 31, 263-268.	1.4	15
33	Determining the shear strength of clay cakes in the centrifuge using a vane. Geotechnique, 1982, 32, 59-62.	4.0	13
34	An analysis of mechanisms of ice-wedge casting based on geotechnical centrifuge simulations. Geomorphology, 2005, 71, 328-343.	2.6	11
35	Multi-shot Echo Planar Imaging for accelerated Cartesian MR Fingerprinting: An alternative to conventional spiral MR Fingerprinting. Magnetic Resonance Imaging, 2019, 61, 20-32.	1.8	10
36	Selecting the rate of loading for drained stress path triaxial tests. Geotechnique, 1997, 47, 1063-1067.	4.0	4

#	ARTICLE	IF	CITATIONS
37	The Cilfynydd flow slide of December 1939. Quarterly Journal of Engineering Geology and Hydrogeology, 1998, 31, 273-289.	1.4	4
38	Analysis of energy absorption of adiabatic shear plugging in thermoviscoplastic targets. International Journal of Engineering Science, 1997, 35, 365-373.	5.0	3
39	How should we fund open access monographs and what do you think is the most likely way that funding will happen?. Insights: the UKSG Journal, 2014, 27, 45-50.	0.4	3
40	Shear Strength of Clay in Centrifuge Models. Journal of Geotechnical Engineering, 1983, 109, 1331-1337.	0.4	2
41	Calibrating the parameters: changing hearts and minds about open access monographs. Insights: the UKSG Journal, 2014, 27, 4-6.	0.4	1
42	Diagnostic quality assessment of IR-prepared 3D magnetic resonance neuroimaging accelerated using compressed sensing and k-space sampling order optimization. Magnetic Resonance Imaging, 2020, 74, 31-45.	1.8	0
43	The Performance of Soil Nailed Systems. , 2009, , .		0