Andrew Frampton

List of Publications by Year
in descending order

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34 papers	1,226 citations	393982 19 h-index	395343 33 g-index
44 all docs	44 docs citations	44 times ranked	1394 citing authors

#	Article	IF	Citations
1	Wetlands as large-scale nature-based solutions: Status and challenges for research, engineering and management. Ecological Engineering, 2017, 108, 489-497.	1.6	217
2	Permafrost Map for Norway, Sweden and Finland. Permafrost and Periglacial Processes, 2017, 28, 359-378.	1.5	92
3	Groundwater flow and heat transport for systems undergoing freeze-thaw: Intercomparison of numerical simulators for 2D test cases. Advances in Water Resources, 2018, 114, 196-218.	1.7	91
4	Non-isothermal, three-phase simulations of near-surface flows in a model permafrost system under seasonal variability and climate change. Journal of Hydrology, 2011, 403, 352-359.	2.3	83
5	Thermal effects of groundwater flow through subarctic fens: A case study based on field observations and numerical modeling. Water Resources Research, 2016, 52, 1591-1606.	1.7	79
6	Permafrost degradation and subsurface-flow changes caused by surface warming trends. Hydrogeology Journal, 2013, 21, 271-280.	0.9	70
7	Using streamflow characteristics to explore permafrost thawing in northern Swedish catchments. Hydrogeology Journal, 2013, 21, 121-131.	0.9	56
8	Numerical and analytical modeling of advective travel times in realistic threeâ€dimensional fracture networks. Water Resources Research, 2011, 47, .	1.7	53
9	Impact of degrading permafrost on subsurface solute transport pathways and travel times. Water Resources Research, 2015, 51, 7680-7701.	1.7	50
10	Advective Transport in Discrete Fracture Networks With Connected and Disconnected Textures Representing Internal Aperture Variability. Water Resources Research, 2019, 55, 5487-5501.	1.7	46
11	Inference of fieldâ€scale fracture transmissivities in crystalline rock using flow log measurements. Water Resources Research, 2010, 46, .	1.7	44
12	Solute transport and retention in threeâ€dimensional fracture networks. Water Resources Research, 2012, 48, .	1.7	44
13	Significance of injection modes and heterogeneity on spatial and temporal dispersion of advecting particles in two-dimensional discrete fracture networks. Advances in Water Resources, 2009, 32, 649-658.	1.7	31
14	An indirect assessment on the impact of connectivity of conductivity classes upon longitudinal asymptotic macrodispersivity. Water Resources Research, 2010, 46, .	1.7	31
15	Soil moisture redistribution and its effect on inter-annual active layer temperature and thickness variations in a dry loess terrace in Adventdalen, Svalbard. Cryosphere, 2017, 11, 635-651.	1.5	31
16	Mechanisms of Basin-Scale Nitrogen Load Reductions under Intensified Irrigated Agriculture. PLoS ONE, 2015, 10, e0120015.	1.1	29
17	Solute evidence for hydrological connectivity of geographically isolated wetlands. Land Degradation and Development, 2018, 29, 3954-3962.	1.8	26
18	Extremely wet summer events enhance permafrost thaw for multiple years in Siberian tundra. Nature Communications, 2022, 13, 1556.	5.8	24

#	Article	IF	Citations
19	Transport and retention from single to multiple fractures in crystalline rock at Ã„spÃ¶ (Sweden): 2. Fracture network simulations and generic retention model. Water Resources Research, 2010, 46, .	1.7	21
20	Wetlandscape size thresholds for ecosystem service delivery: Evidence from the NorrstrÃ¶m drainage basin, Sweden. Science of the Total Environment, 2020, 704, 135452.	3.9	17
21	Upscaling particle transport in discrete fracture networks: 2. Reactive tracers. Water Resources Research, 2007, 43, .	1.7	14
22	Upscaling particle transport in discrete fracture networks: 1. Nonreactive tracers. Water Resources Research, 2007, 43, .	1.7	11
23	Wetland position in the landscape: Impact on water storage and flood buffering. Ecohydrology, 2022, 15, .	1.1	10
24	A global sensitivity analysis of two-phase flow between fractured crystalline rock and bentonite with application to spent nuclear fuel disposal. Journal of Contaminant Hydrology, 2015, 182, 25-35.	1.6	9
25	Impact of lateral groundwater flow on hydrothermal conditions of the active layer in a high-Arctic hillslope setting. Cryosphere, 2021, 15, 4853-4871.	1.5	9
26	Experimental and theoretical study of the spread of fluid from a point source on an inclined incontinence bed-pad. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2003, 217, 263-271.	1.0	8
27	Conceptual uncertainties in modelling the interaction between engineered and natural barriers of nuclear waste repositories in crystalline rocks. Geological Society Special Publication, 2019, 482, 261-283.	0.8	7
28	Modeling early in situ wetting of a compacted bentonite buffer installed in low permeable crystalline bedrock. Water Resources Research, 2016, 52, 6207-6221.	1.7	5
29	Contaminated area instability along Ã…ngermanÃlven River, northern Sweden. Environmental Monitoring and Assessment, 2017, 189, 118.	1.3	5
30	Modeling Two-Phase-Flow Interactions across a Bentonite Clay and Fractured Rock Interface. Nuclear Technology, 2014, 187, 147-157.	0.7	4
31	Reconstruction of the water content at an interface between compacted bentonite blocks and fractured crystalline bedrock. Applied Clay Science, 2017, 142, 145-152.	2.6	3
32	Air warming trends linked to permafrost warming in the sub-Arctic catchment of Tarfala, Sweden. Polar Research, 2016, 35, 28978.	1.6	3
33	Modelling strategies for liquid spreading in medical absorbents. International Journal of Clothing Science and Technology, 2004, 16, 163-172.	0.5	2
34	Transient Modeling of Permafrost Dynamics in Changing Climate Scenarios. , 2011, , .		0