Andrew Ireson

List of Publications by Citations

40 papers	1,909 citations	16 h-index	43 g-index
43 ext. papers	2,177 ext. citations	5 avg, IF	4.4 L-index

#	Paper	IF	Citations
40	Precipitation downscaling under climate change: Recent developments to bridge the gap between dynamical models and the end user. *Reviews of Geophysics*, **2010**, 48,	23.1	1021
39	Drinking Water Salinity and Maternal Health in Coastal Bangladesh: Implications of Climate Change. *Environmental Health Perspectives*, **2011**,	8.4	176
38	Hydrogeological processes in seasonally frozen northern latitudes: understanding, gaps and challenges. *Hydrogeology Journal*, **2013**, 21, 53-66	3.1	87
37	Flood risk from groundwater: examples from a Chalk catchment in southern England. *Journal of Flood Risk Management*, **2011**, 4, 143-155	3.1	53
36	A model for flow in the chalk unsaturated zone incorporating progressive weathering. *Journal of Hydrology*, **2009**, 365, 244-260	6	51
35	Hydrological processes in the Chalk unsaturated zone Insights from an intensive field monitoring programme. *Journal of Hydrology*, **2006**, 330, 29-43	6	48
34	The changing water cycle: the Boreal Plains ecozone of Western Canada. *Wiley Interdisciplinary Reviews: Water*, **2015**, 2, 505-521	5.7	45
33	Water Resources Modelling under Data Scarcity: Coupling MIKE BASIN and ASM Groundwater Model. *Water Resources Management*, **2006**, 20, 567-590	3.7	41
32	Controls on preferential recharge to Chalk aquifers. *Journal of Hydrology*, **2011**, 398, 109-123	6	40
31	Impacts of climate variability on wetland salinization in the North American prairies. *Hydrology and Earth System Sciences*, **2014**, 18, 1251-1263	5.5	36
30	Sulfate salt dynamics in the glaciated plains of North America. *Journal of Hydrology*, **2013**, 499, 188-199	6	32
29	Influence of shallow groundwaterurface water interactions on the hydrological connectivity and water budget of a wetland complex. *Hydrological Processes*, **2015**, 29, 3862-3877	3.3	32
28	Catchment-scale modelling of flow and nutrient transport in the Chalk unsaturated zone. *Ecological Modelling*, **2007**, 209, 41-52	3	32
27	Estimating field-scale root zone soil moisture using the cosmic-ray neutron probe. *Hydrology and Earth System Sciences*, **2016**, 20, 1373-1385	5.5	32
26	Comparison of varied complexity models simulating recharge at the field scale. *Hydrological Processes*, **2014**, 28, 2091-2102	3.3	22
25	A critical assessment of simple recharge models: application to the UK Chalk. *Hydrology and Earth System Sciences*, **2013**, 17, 2083-2096	5.5	17
24	Impact of bimodal textural heterogeneity and connectivity on flow and transport through unsaturated mine waste rock. *Advances in Water Resources*, **2018**, 112, 254-265	4.7	15

23	Field-scale water balance closure in seasonally frozen conditions. *Hydrology and Earth System Sciences*, **2017**, 21, 5401-5413	5.5	11
22	Advances in modelling groundwater behaviour in Chalk catchments. *Geological Society Special Publication*, **2012**, 364, 113-127	1.7	11
21	Recent advances in modelling nitrate transport in the Chalk unsaturated zone. *Quarterly Journal of Engineering Geology and Hydrogeology*, **2007**, 40, 353-359	1.4	11
20	Modeling groundwater responses to climate change in the Prairie Pothole Region. *Hydrology and Earth System Sciences*, **2020**, 24, 655-672	5.5	10
19	Summary and synthesis of Changing Cold Regions Network (CCRN) research in the interior of western Canada Part 2: Future change in cryosphere, vegetation, and hydrology. *Hydrology and Earth System Sciences*, **2021**, 25, 1849-1882	5.5	10
18	Quantifying the wetland water balance: A new isotope-based approach that includes precipitation and infiltration. *Journal of Hydrology*, **2019**, 570, 185-200	6	10
17	Evidence for the onset and persistence with depth of preferential flow in unsaturated fractured porous media **2012**, 43, 707-719		9
16	Ephemeral Ponds: Are They the Dominant Source of Depression-Focused Groundwater Recharge?. *Water Resources Research*, **2020**, 56, e2019WR026640	5.4	8
15	How Spatial Patterns of Soil Moisture Dynamics Can Explain Field-Scale Soil Moisture Variability: Observations From a Sodic Landscape. *Water Resources Research*, **2019**, 55, 4410-4426	5.4	7
14	Water Vapor Transport in Soils from a Pervaporative Irrigation System. *Journal of Environmental Engineering, ASCE*, **2013**, 139, 1062-1069	2	7
13	Controls on evapotranspiration from jack pine forests in the Boreal Plains Ecozone. *Hydrological Processes*, **2020**, 34, 927-940	3.3	7
12	Meteorological, soil moisture, surface water, and groundwater data from the St. Denis National Wildlife Area, Saskatchewan, Canada. *Earth System Science Data*, **2019**, 11, 553-563	10.5	5
11	Fully coupled heat and water dynamics modelling of a reclamation cover for oil sands shale overburden. *Journal of Hydrology*, **2018**, 566, 250-263	6	5
10	Synthesis of science: findings on Canadian Prairie wetland drainage. *Canadian Water Resources Journal*,1-13	1.7	4
9	Modeling Vapor Flow from a Pervaporative Irrigation System. *Vadose Zone Journal*, **2013**, 12, vzj2013.05.0079	2.7	3
8	Modeling Groundwater-Soil-Plant-Atmosphere Exchanges in Fractured Porous Media. *Procedia Environmental Sciences*, **2013**, 19, 321-330		2
7	Meteorological, soil moisture, surface water, and groundwater data from the St Denis National Wildlife Area, Saskatchewan, Canada		2
6	A Model for the Soil Freezing Characteristic Curve That Represents the Dominant Role of Salt Exclusion. *Water Resources Research*, **2021**, 57, e2021WR030070	5.4	2

5	Advances in modelling large river basins in cold regions with Modélisation Environmentale Communautaire Surface and Hydrology (MESH), the Canadian hydrological land surface scheme. *Hydrological Processes*, **2022**, 36,	3.3	2
4	Using observed soil moisture to constrain the uncertainty of simulated hydrological fluxes. *Hydrological Processes*, **2022**, 36,	3.3	1
3	A critical assessment of simple recharge models: application to the UK Chalk		1
2	An Efficient Calibration Technique for Heat Dissipation Matric Water Potential Sensors. *Soil Science Society of America Journal*, **2015**, 79, 1115-1122	2.5	
1	Characterisation of Radionuclide Migration and Plant Uptake for Performance Assessment. *Materials Research Society Symposia Proceedings*, **2008**, 1107, 1		