Andrew Ireson

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Using observed soil moisture to constrain the uncertainty of simulated hydrological fluxes. Hydrological Processes, 2022, 36, .	2.6	5
2	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, .	2.6	14
3	Summary and synthesis of Changing Cold Regions Network (CCRN) research in the interior of western Canada – PartÂ2: Future change in cryosphere, vegetation, and hydrology. Hydrology and Earth System Sciences, 2021, 25, 1849-1882.	4.9	20
4	A Model for the Soil Freezing Characteristic Curve That Represents the Dominant Role of Salt Exclusion. Water Resources Research, 2021, 57, e2021WR030070.	4.2	12
5	Synthesis of science: findings on Canadian Prairie wetland drainage. Canadian Water Resources Journal, 2021, 46, 229-241.	1.2	15
6	Controls on evapotranspiration from jack pine forests in the Boreal Plains Ecozone. Hydrological Processes, 2020, 34, 927-940.	2.6	13
7	Ephemeral Ponds: Are They the Dominant Source of Depressionâ€Focused Groundwater Recharge?. Water Resources Research, 2020, 56, e2019WR026640.	4.2	14
8	Modeling groundwater responses to climate change in the Prairie Pothole Region. Hydrology and Earth System Sciences, 2020, 24, 655-672.	4.9	23
9	How Spatial Patterns of Soil Moisture Dynamics Can Explain Fieldâ€Scale Soil Moisture Variability: Observations From a Sodic Landscape. Water Resources Research, 2019, 55, 4410-4426.	4.2	12
10	Quantifying the wetland water balance: A new isotope-based approach that includes precipitation and infiltration. Journal of Hydrology, 2019, 570, 185-200.	5.4	18
11	Meteorological, soil moisture, surface water, and groundwater data from the St.ÂDenis National Wildlife Area, Saskatchewan, Canada. Earth System Science Data, 2019, 11, 553-563.	9.9	7
12	Impact of bimodal textural heterogeneity and connectivity on flow and transport through unsaturated mine waste rock. Advances in Water Resources, 2018, 112, 254-265.	3.8	15
13	Fully coupled heat and water dynamics modelling of a reclamation cover for oil sands shale overburden. Journal of Hydrology, 2018, 566, 250-263.	5.4	6
14	Field-scale water balance closure in seasonally frozen conditions. Hydrology and Earth System Sciences, 2017, 21, 5401-5413.	4.9	17
15	Estimating field-scale root zone soil moisture using the cosmic-ray neutron probe. Hydrology and Earth System Sciences, 2016, 20, 1373-1385.	4.9	40
16	The changing water cycle: the Boreal Plains ecozone of Western Canada. Wiley Interdisciplinary Reviews: Water, 2015, 2, 505-521.	6.5	63
17	Influence of shallow groundwater–surface water interactions on the hydrological connectivity and water budget of a wetland complex. Hydrological Processes, 2015, 29, 3862-3877.	2.6	41
18	An Efficient Calibration Technique for Heat Dissipation Matric Water Potential Sensors. Soil Science Society of America Journal, 2015, 79, 1115-1122.	2.2	0

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19	Impacts of climate variability on wetland salinization in the North American prairies. Hydrology and Earth System Sciences, 2014, 18, 1251-1263.	4.9	41
20	Comparison of varied complexity models simulating recharge at the field scale. Hydrological Processes, 2014, 28, 2091-2102.	2.6	23
21	Sulfate salt dynamics in the glaciated plains of North America. Journal of Hydrology, 2013, 499, 188-199.	5.4	38
22	Modeling Groundwater-Soil-Plant-Atmosphere Exchanges in Fractured Porous Media. Procedia Environmental Sciences, 2013, 19, 321-330.	1.4	2
23	Hydrogeological processes in seasonally frozen northern latitudes: understanding, gaps and challenges. Hydrogeology Journal, 2013, 21, 53-66.	2.1	144
24	Water Vapor Transport in Soils from a Pervaporative Irrigation System. Journal of Environmental Engineering, ASCE, 2013, 139, 1062-1069.	1.4	7
25	A critical assessment of simple recharge models: application to the UK Chalk. Hydrology and Earth System Sciences, 2013, 17, 2083-2096.	4.9	21
26	Modeling Vapor Flow from a Pervaporative Irrigation System. Vadose Zone Journal, 2013, 12, 1-11.	2.2	3
27	Evidence for the onset and persistence with depth of preferential flow in unsaturated fractured porous media. Hydrology Research, 2012, 43, 707-719.	2.7	11
28	Advances in modelling groundwater behaviour in Chalk catchments. Geological Society Special Publication, 2012, 364, 113-127.	1.3	14
29	Flood risk from groundwater: examples from a Chalk catchment in southern England. Journal of Flood Risk Management, 2011, 4, 143-155.	3.3	68
30	Controls on preferential recharge to Chalk aquifers. Journal of Hydrology, 2011, 398, 109-123.	5.4	51
31	Drinking Water Salinity and Maternal Health in Coastal Bangladesh: Implications of Climate Change. Environmental Health Perspectives, 2011, 119, 1328-1332.	6.0	234
32	Precipitation downscaling under climate change: Recent developments to bridge the gap between dynamical models and the end user. Reviews of Geophysics, 2010, 48, .	23.0	1,256
33	A model for flow in the chalk unsaturated zone incorporating progressive weathering. Journal of Hydrology, 2009, 365, 244-260.	5.4	62
34	Characterisation of Radionuclide Migration and Plant Uptake for Performance Assessment. Materials Research Society Symposia Proceedings, 2008, 1107, 1.	0.1	0
35	Recent advances in modelling nitrate transport in the Chalk unsaturated zone. Quarterly Journal of Engineering Geology and Hydrogeology, 2007, 40, 353-359.	1.4	12
36	Catchment-scale modelling of flow and nutrient transport in the Chalk unsaturated zone. Ecological Modelling, 2007, 209, 41-52.	2.5	32

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37	Hydrological processes in the Chalk unsaturated zone – Insights from an intensive field monitoring programme. Journal of Hydrology, 2006, 330, 29-43.	5.4	58
38	Water Resources Modelling under Data Scarcity: Coupling MIKE BASIN and ASM Groundwater Model. Water Resources Management, 2006, 20, 567-590.	3.9	52