

Andrew Ireson

List of Publications by Year in descending order

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Version: 2024-02-01

38
papers

2,469
citations

430442

18
h-index

344852

36
g-index

43
all docs

43
docs citations

43
times ranked

3169
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Precipitation downscaling under climate change: Recent developments to bridge the gap between dynamical models and the end user. <i>Reviews of Geophysics</i> , 2010, 48, . | 9.0 | 1,256 |
| 2 | Drinking Water Salinity and Maternal Health in Coastal Bangladesh: Implications of Climate Change. <i>Environmental Health Perspectives</i> , 2011, 119, 1328-1332. | 2.8 | 234 |
| 3 | Hydrogeological processes in seasonally frozen northern latitudes: understanding, gaps and challenges. <i>Hydrogeology Journal</i> , 2013, 21, 53-66. | 0.9 | 144 |
| 4 | Flood risk from groundwater: examples from a Chalk catchment in southern England. <i>Journal of Flood Risk Management</i> , 2011, 4, 143-155. | 1.6 | 68 |
| 5 | The changing water cycle: the Boreal Plains ecozone of Western Canada. <i>Wiley Interdisciplinary Reviews: Water</i> , 2015, 2, 505-521. | 2.8 | 63 |
| 6 | A model for flow in the chalk unsaturated zone incorporating progressive weathering. <i>Journal of Hydrology</i> , 2009, 365, 244-260. | 2.3 | 62 |
| 7 | Hydrological processes in the Chalk unsaturated zone – Insights from an intensive field monitoring programme. <i>Journal of Hydrology</i> , 2006, 330, 29-43. | 2.3 | 58 |
| 8 | Water Resources Modelling under Data Scarcity: Coupling MIKE BASIN and ASM Groundwater Model. <i>Water Resources Management</i> , 2006, 20, 567-590. | 1.9 | 52 |
| 9 | Controls on preferential recharge to Chalk aquifers. <i>Journal of Hydrology</i> , 2011, 398, 109-123. | 2.3 | 51 |
| 10 | Impacts of climate variability on wetland salinization in the North American prairies. <i>Hydrology and Earth System Sciences</i> , 2014, 18, 1251-1263. | 1.9 | 41 |
| 11 | Influence of shallow groundwater–surface water interactions on the hydrological connectivity and water budget of a wetland complex. <i>Hydrological Processes</i> , 2015, 29, 3862-3877. | 1.1 | 41 |
| 12 | Estimating field-scale root zone soil moisture using the cosmic-ray neutron probe. <i>Hydrology and Earth System Sciences</i> , 2016, 20, 1373-1385. | 1.9 | 40 |
| 13 | Sulfate salt dynamics in the glaciated plains of North America. <i>Journal of Hydrology</i> , 2013, 499, 188-199. | 2.3 | 38 |
| 14 | Catchment-scale modelling of flow and nutrient transport in the Chalk unsaturated zone. <i>Ecological Modelling</i> , 2007, 209, 41-52. | 1.2 | 32 |
| 15 | Comparison of varied complexity models simulating recharge at the field scale. <i>Hydrological Processes</i> , 2014, 28, 2091-2102. | 1.1 | 23 |
| 16 | Modeling groundwater responses to climate change in the Prairie Pothole Region. <i>Hydrology and Earth System Sciences</i> , 2020, 24, 655-672. | 1.9 | 23 |
| 17 | A critical assessment of simple recharge models: application to the UK Chalk. <i>Hydrology and Earth System Sciences</i> , 2013, 17, 2083-2096. | 1.9 | 21 |
| 18 | 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. <i>Hydrology and Earth System Sciences</i> , 2021, 25, 1849-1882. | 1.9 | 20 |

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|----|--|-----|-----------|
| 19 | Quantifying the wetland water balance: A new isotope-based approach that includes precipitation and infiltration. <i>Journal of Hydrology</i> , 2019, 570, 185-200. | 2.3 | 18 |
| 20 | Field-scale water balance closure in seasonally frozen conditions. <i>Hydrology and Earth System Sciences</i> , 2017, 21, 5401-5413. | 1.9 | 17 |
| 21 | Impact of bimodal textural heterogeneity and connectivity on flow and transport through unsaturated mine waste rock. <i>Advances in Water Resources</i> , 2018, 112, 254-265. | 1.7 | 15 |
| 22 | Synthesis of science: findings on Canadian Prairie wetland drainage. <i>Canadian Water Resources Journal</i> , 2021, 46, 229-241. | 0.5 | 15 |
| 23 | Advances in modelling groundwater behaviour in Chalk catchments. <i>Geological Society Special Publication</i> , 2012, 364, 113-127. | 0.8 | 14 |
| 24 | Ephemeral Ponds: Are They the Dominant Source of Depression-Focused Groundwater Recharge?. <i>Water Resources Research</i> , 2020, 56, e2019WR026640. | 1.7 | 14 |
| 25 | Advances in modelling large river basins in cold regions with Modélisation Environnementale Communautaire Surface and Hydrology (MESH), the Canadian hydrological land surface scheme. <i>Hydrological Processes</i> , 2022, 36, . | 1.1 | 14 |
| 26 | Controls on evapotranspiration from jack pine forests in the Boreal Plains Ecozone. <i>Hydrological Processes</i> , 2020, 34, 927-940. | 1.1 | 13 |
| 27 | Recent advances in modelling nitrate transport in the Chalk unsaturated zone. <i>Quarterly Journal of Engineering Geology and Hydrogeology</i> , 2007, 40, 353-359. | 0.8 | 12 |
| 28 | How Spatial Patterns of Soil Moisture Dynamics Can Explain Field-Scale Soil Moisture Variability: Observations From a Sodic Landscape. <i>Water Resources Research</i> , 2019, 55, 4410-4426. | 1.7 | 12 |
| 29 | A Model for the Soil Freezing Characteristic Curve That Represents the Dominant Role of Salt Exclusion. <i>Water Resources Research</i> , 2021, 57, e2021WR030070. | 1.7 | 12 |
| 30 | Evidence for the onset and persistence with depth of preferential flow in unsaturated fractured porous media. <i>Hydrology Research</i> , 2012, 43, 707-719. | 1.1 | 11 |
| 31 | Water Vapor Transport in Soils from a Pervaporative Irrigation System. <i>Journal of Environmental Engineering, ASCE</i> , 2013, 139, 1062-1069. | 0.7 | 7 |
| 32 | Meteorological, soil moisture, surface water, and groundwater data from the St. Denis National Wildlife Area, Saskatchewan, Canada. <i>Earth System Science Data</i> , 2019, 11, 553-563. | 3.7 | 7 |
| 33 | Fully coupled heat and water dynamics modelling of a reclamation cover for oil sands shale overburden. <i>Journal of Hydrology</i> , 2018, 566, 250-263. | 2.3 | 6 |
| 34 | Using observed soil moisture to constrain the uncertainty of simulated hydrological fluxes. <i>Hydrological Processes</i> , 2022, 36, . | 1.1 | 5 |
| 35 | Modeling Vapor Flow from a Pervaporative Irrigation System. <i>Vadose Zone Journal</i> , 2013, 12, 1-11. | 1.3 | 3 |
| 36 | Modeling Groundwater-Soil-Plant-Atmosphere Exchanges in Fractured Porous Media. <i>Procedia Environmental Sciences</i> , 2013, 19, 321-330. | 1.3 | 2 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | Characterisation of Radionuclide Migration and Plant Uptake for Performance Assessment. Materials Research Society Symposia Proceedings, 2008, 1107, 1. | 0.1 | 0 |
| 38 | An Efficient Calibration Technique for Heat Dissipation Matric Water Potential Sensors. Soil Science Society of America Journal, 2015, 79, 1115-1122. | 1.2 | 0 |