

John P Bloomfield

List of Publications by Year in descending order

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Version: 2024-02-01

56
papers

2,778
citations

201385

27
h-index

182168

51
g-index

79
all docs

79
docs citations

79
times ranked

3017
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | The importance of non-stationary multiannual periodicities in the North Atlantic Oscillation index for forecasting water resource drought. <i>Hydrology and Earth System Sciences</i> , 2022, 26, 2449-2467. | 1.9 | 3 |
| 2 | Fractal domain refinement of models simulating hydrological time series. <i>Hydrological Sciences Journal</i> , 2022, 67, 1342-1355. | 1.2 | 0 |
| 3 | Non-stationary control of the NAO on European rainfall and its implications for water resource management. <i>Hydrological Processes</i> , 2021, 35, e14099. | 1.1 | 9 |
| 4 | Exploring the role of hydrological pathways in modulating multi-annual climate teleconnection periodicities from UK rainfall to streamflow. <i>Hydrology and Earth System Sciences</i> , 2021, 25, 2223-2237. | 1.9 | 11 |
| 5 | Knowledge gaps in our perceptual model of Great Britain's hydrology. <i>Hydrological Processes</i> , 2021, 35, e14288. | 1.1 | 22 |
| 6 | The influence of groundwater abstraction on interpreting climate controls and extreme recharge events from well hydrographs in semi-arid South Africa. <i>Hydrogeology Journal</i> , 2021, 29, 2773-2787. | 0.9 | 10 |
| 7 | How is Baseflow Index (BFI) impacted by water resource management practices?. <i>Hydrology and Earth System Sciences</i> , 2021, 25, 5355-5379. | 1.9 | 11 |
| 8 | Evaluating integrated water management strategies to inform hydrological drought mitigation. <i>Natural Hazards and Earth System Sciences</i> , 2021, 21, 3113-3139. | 1.5 | 10 |
| 9 | CAMELS-GB: hydrometeorological time series and landscape attributes for 671 catchments in Great Britain. <i>Earth System Science Data</i> , 2020, 12, 2459-2483. | 3.7 | 87 |
| 10 | Asymmetric impact of groundwater use on groundwater droughts. <i>Hydrology and Earth System Sciences</i> , 2020, 24, 4853-4868. | 1.9 | 25 |
| 11 | Analysis of the impact of hydraulic properties and climate change on estimations of borehole yields. <i>Journal of Hydrology</i> , 2019, 577, 123998. | 2.3 | 5 |
| 12 | Understanding the potential of climate teleconnections to project future groundwater drought. <i>Hydrology and Earth System Sciences</i> , 2019, 23, 3233-3245. | 1.9 | 37 |
| 13 | Changes in groundwater drought associated with anthropogenic warming. <i>Hydrology and Earth System Sciences</i> , 2019, 23, 1393-1408. | 1.9 | 59 |
| 14 | Benchmarking the predictive capability of hydrological models for river flow and flood peak predictions across over 1000 catchments in Great Britain. <i>Hydrology and Earth System Sciences</i> , 2019, 23, 4011-4032. | 1.9 | 63 |
| 15 | Obligate groundwater crustaceans mediate biofilm interactions in a subsurface food web. <i>Freshwater Science</i> , 2019, 38, 491-502. | 0.9 | 15 |
| 16 | A conceptual model for the analysis of multi-stressors in linked groundwater-surface water systems. <i>Science of the Total Environment</i> , 2018, 627, 880-895. | 3.9 | 25 |
| 17 | Characterising the vertical separation of shale-gas source rocks and aquifers across England and Wales (UK). <i>Hydrogeology Journal</i> , 2018, 26, 1975-1987. | 0.9 | 9 |
| 18 | A conceptual model for climatic teleconnection signal control on groundwater variability in Europe. <i>Earth-Science Reviews</i> , 2018, 177, 164-174. | 4.0 | 31 |

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|----|---|-----|-----------|
| 19 | Spatio-temporal modelling of the status of groundwater droughts. <i>Journal of Hydrology</i> , 2018, 564, 397-413. | 2.3 | 46 |
| 20 | Temporal scaling phenomena in groundwater-floodplain systems using robust detrended fluctuation analysis. <i>Journal of Hydrology</i> , 2017, 549, 715-730. | 2.3 | 24 |
| 21 | Improved understanding of spatio-temporal controls on regional scale groundwater flooding using hydrograph analysis and impulse response functions. <i>Hydrological Processes</i> , 2017, 31, 4586-4599. | 1.1 | 28 |
| 22 | Defining geo-habitats for groundwater ecosystem assessments: an example from England and Wales (UK). <i>Hydrogeology Journal</i> , 2017, 25, 2453-2466. | 0.9 | 8 |
| 23 | A framework for a joint hydro-meteorological-social analysis of drought. <i>Science of the Total Environment</i> , 2017, 578, 297-306. | 3.9 | 25 |
| 24 | Hydrological Outlook UK: an operational streamflow and groundwater level forecasting system at monthly to seasonal time scales. <i>Hydrological Sciences Journal</i> , 2017, 62, 2753-2768. | 1.2 | 45 |
| 25 | Reconstruction of multi-decadal groundwater level time-series using a lumped conceptual model. <i>Hydrological Processes</i> , 2016, 30, 3107-3125. | 1.1 | 23 |
| 26 | Quantifying uncertainty in predictions of groundwater levels using formal likelihood methods. <i>Journal of Hydrology</i> , 2016, 540, 699-711. | 2.3 | 17 |
| 27 | Regional analysis of groundwater droughts using hydrograph classification. <i>Hydrology and Earth System Sciences</i> , 2015, 19, 4327-4344. | 1.9 | 91 |
| 28 | Using variograms to detect and attribute hydrological change. <i>Hydrology and Earth System Sciences</i> , 2015, 19, 2395-2408. | 1.9 | 9 |
| 29 | Multi-annual droughts in the English Lowlands: a review of their characteristics and climate drivers in the winter half-year. <i>Hydrology and Earth System Sciences</i> , 2015, 19, 2353-2375. | 1.9 | 66 |
| 30 | Climate change and water in the UK – past changes and future prospects. <i>Progress in Physical Geography</i> , 2015, 39, 6-28. | 1.4 | 178 |
| 31 | Evidence for changes in historic and future groundwater levels in the UK. <i>Progress in Physical Geography</i> , 2015, 39, 49-67. | 1.4 | 34 |
| 32 | A geospatial framework to support integrated biogeochemical modelling in the United Kingdom. <i>Environmental Modelling and Software</i> , 2015, 68, 219-232. | 1.9 | 26 |
| 33 | Which catchment characteristics control the temporal dependence structure of daily river flows?. <i>Hydrological Processes</i> , 2015, 29, 1353-1369. | 1.1 | 45 |
| 34 | Controls on the basin-scale distribution of hydraulic conductivity of superficial deposits: a case study from the Thames Basin, UK. <i>Quarterly Journal of Engineering Geology and Hydrogeology</i> , 2014, 47, 223-236. | 0.8 | 17 |
| 35 | The nitrate time bomb: a numerical way to investigate nitrate storage and lag time in the unsaturated zone. <i>Environmental Geochemistry and Health</i> , 2013, 35, 667-681. | 1.8 | 92 |
| 36 | Analysis of groundwater drought building on the standardised precipitation index approach. <i>Hydrology and Earth System Sciences</i> , 2013, 17, 4769-4787. | 1.9 | 274 |

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|----|---|-----|-----------|
| 37 | Stygobitic Invertebrates in Groundwater – A Review from a Hydrogeological Perspective. <i>Freshwater Reviews: A Journal of the Freshwater Biological Association</i> , 2012, 5, 51-71. | 1.0 | 27 |
| 38 | Prediction of the arrival of peak nitrate concentrations at the water table at the regional scale in Great Britain. <i>Hydrological Processes</i> , 2012, 26, 226-239. | 1.1 | 81 |
| 39 | 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 |
| 40 | A review of the impact of climate change on future nitrate concentrations in groundwater of the UK. <i>Science of the Total Environment</i> , 2011, 409, 2859-2873. | 3.9 | 130 |
| 41 | Identificação de respostas não estacionárias dos níveis de água subterrânea aos padrões de teleconexão oceano-atmosfera no Atlântico Norte, utilizando a coerência de ondulas. <i>Hydrogeology Journal</i> , 2011, 19, 1269-1278. | 0.9 | 89 |
| 42 | Some relationships between lithology, basin form and hydrology: a case study from the Thames basin, UK. <i>Hydrological Processes</i> , 2011, 25, 2518-2530. | 1.1 | 50 |
| 43 | An early warning system for groundwater flooding in the Chalk. <i>Quarterly Journal of Engineering Geology and Hydrogeology</i> , 2010, 43, 185-193. | 0.8 | 23 |
| 44 | Robust evidence for random fractal scaling of groundwater levels in unconfined aquifers. <i>Journal of Hydrology</i> , 2010, 393, 362-369. | 2.3 | 43 |
| 45 | Examining geological controls on baseflow index (BFI) using regression analysis: An illustration from the Thames Basin, UK. <i>Journal of Hydrology</i> , 2009, 373, 164-176. | 2.3 | 141 |
| 46 | Linking North Atlantic ocean-atmosphere teleconnection patterns and hydrogeological responses in temperate groundwater systems. <i>Hydrological Processes</i> , 2009, 23, 3123-3126. | 1.1 | 23 |
| 47 | Karstic behaviour of groundwater in the English Chalk. <i>Journal of Hydrology</i> , 2006, 330, 63-70. | 2.3 | 56 |
| 48 | Characterising the vertical variations in hydraulic conductivity within the Chalk aquifer. <i>Journal of Hydrology</i> , 2006, 330, 53-62. | 2.3 | 50 |
| 49 | Characterization of permeability distributions in six lithofacies from the Helsby and Wilmslow sandstone formations of the Cheshire Basin, UK. <i>Geological Society Special Publication</i> , 2006, 263, 83-101. | 0.8 | 15 |
| 50 | Impacts of climate change on the fate and behaviour of pesticides in surface and groundwater – a UK perspective. <i>Science of the Total Environment</i> , 2006, 369, 163-177. | 3.9 | 278 |
| 51 | Modeling fracture porosity development using simple growth laws. <i>Ground Water</i> , 2005, 43, 314-326. | 0.7 | 23 |
| 52 | Towards a better understanding of tetrachloroethene entry pressure in the matrix of Permo-Triassic sandstones. <i>Journal of Contaminant Hydrology</i> , 2002, 59, 247-265. | 1.6 | 11 |
| 53 | Sediment filled fractures in the Permo-Triassic sandstones of the Cheshire Basin: observations and implications for pollutant transport. <i>Journal of Contaminant Hydrology</i> , 2001, 50, 41-51. | 1.6 | 51 |
| 54 | Characterisation of hydrogeologically significant fracture distributions in the Chalk: an example from the Upper Chalk of southern England. <i>Journal of Hydrology</i> , 1996, 184, 355-379. | 2.3 | 80 |

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|----|--|-----|-----------|
| 55 | Correlating mechanical data with microstructural observations in deformation experiments on synthetic two-phase aggregates. <i>Journal of Structural Geology</i> , 1993, 15, 1007-1019. | 1.0 | 42 |
| 56 | The Groundwater Drought Initiative (GDI): Analysing and understanding groundwater drought across Europe. <i>Proceedings of the International Association of Hydrological Sciences</i> , 0, 383, 297-305. | 1.0 | 7 |