# John B Lindsay

List of Publications by Year
in descending order



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|---|---|---|---|
| 47 papers | 1,763 citations | 257357 24 h-index | 276775 41 g-index |
| 49 all docs | 49 docs citations | 49 times ranked | 1903 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Whitebox GAT: A case study in geomorphometric analysis. Computers and Geosciences, 2016, 95, 75-84. | 2.0 | 184 |
| 2 | Removal of artifact depressions from digital elevation models: towards a minimum impact approach. Hydrological Processes, 2005, 19, 3113-3126. | 1.1 | 138 |
| 3 | High resolution quantification of gully erosion in upland peatlands at the landscape scale. Earth Surface Processes and Landforms, 2010, 35, 876-886. | 1.2 | 116 |
| 4 | The Terrain Analysis System: a tool for hydro-geomorphic applications. Hydrological Processes, 2005, 19, 1123-1130. | 1.1 | 112 |
| 5 | Efficient hybrid breaching-filling sink removal methods for flow path enforcement in digital elevation models. Hydrological Processes, 2016, 30, 846-857. | 1.1 | 91 |
| 6 | Distinguishing actual and artefact depressions in digital elevation data. Computers and Geosciences, 2006, 32, 1192-1204. | 2.0 | 81 |
| 7 | Evaluating DEM conditioning techniques, elevation source data, and grid resolution for field-scale hydrological parameter extraction. Journal of Hydrology, 2016, 540, 1022-1029. | 2.3 | 74 |
| 8 | The practice of DEM stream burning revisited. Earth Surface Processes and Landforms, 2016, 41, 658-668. | 1.2 | 66 |
| 9 | The effects of survey frequency on estimates of scour and fill in a braided river model. Earth Surface Processes and Landforms, 2002, 27, 27-43. | 1.2 | 65 |
| 10 | Modelling surface drainage patterns in altered landscapes using LiDAR. International Journal of Geographical Information Science, 2015, 29, 397-411. | 2.2 | 63 |
| 11 | An integral image approach to performing multi-scale topographic position analysis. Geomorphology, 2015, 245, 51-61. | 1.1 | 58 |
| 12 | Sensitivity of channel mapping techniques to uncertainty in digital elevation data. International Journal of Geographical Information Science, 2006, 20, 669-692. | 2.2 | 48 |
| 13 | Temporary streams in a peatland catchment: pattern, timing, and controls on stream network expansion and contraction. Earth Surface Processes and Landforms, 2014, 39, 790-803. | 1.2 | 46 |
| 14 | Sensitivity of Digital Landscapes to Artifact Depressions in Remotely-sensed DEMs. Photogrammetric Engineering and Remote Sensing, 2005, 71, 1029-1036. | 0.3 | 43 |
| 15 | The influence of elevation error on the morphometrics of channel networks extracted from DEMs and the implications for hydrological modelling. Hydrological Processes, 2008, 22, 1588-1603. | 1.1 | 40 |
| 16 | LiDAR DEM Smoothing and the Preservation of Drainage Features. Remote Sensing, 2019, 11, 1926. | 1.8 | 37 |
| 17 | Evaluating metrics of local topographic position for multiscale geomorphometric analysis. Geomorphology, 2018, 312, 40-50. | 1.1 | 34 |
| 18 | Drainage basin morphometrics for depressional landscapes. Water Resources Research, 2004, 40, . | 1.7 | 32 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Scale-dependent spatial variability in peatland lead pollution in the southern Pennines, UK. Environmental Pollution, 2007, 145, 111-120. | 3.7 | 31 |
| 20 | A physically based model for calculating contributing area on hillslopes and along valley bottoms. Water Resources Research, 2003, 39, . | 1.7 | 29 |
| 21 | Ephemeral stream sensor design using state loggers. Hydrology and Earth System Sciences, 2011, 15, 1009-1021. | 1.9 | 28 |
| 22 | A new approach to the application of electrical resistance sensors to measuring the onset of ephemeral streamflow in wetland environments. Water Resources Research, 2009, 45, . | 1.7 | 27 |
| 23 | Characterizing ephemeral streams in a southern Ontario watershed using electrical resistance sensors. Hydrological Processes, 2015, 29, 103-111. | 1.1 | 27 |
| 24 | Scale-Optimized Surface Roughness for Topographic Analysis. Geosciences (Switzerland), 2019, 9, 322. | 1.0 | 27 |
| 25 | Impact of gully erosion on carbon sequestration in blanket peatlands. Climate Research, 2010, 45, 31-41. | 0.4 | 27 |
| 26 | Monitoring ephemeral headwater streams: a paired-sensor approach. Hydrological Processes, 2016, 30, 888-898. | 1.1 | 23 |
| 27 | Mapping outlet points used for watershed delineation onto DEMâ€derived stream networks. Water Resources Research, 2008, 44, . | 1.7 | 22 |
| 28 | Sediment-assisted nutrient transfer from a small, no-till, tile drained watershed in Southwestern Ontario, Canada. Agricultural Water Management, 2015, 152, 31-40. | 2.4 | 19 |
| 29 | Measuring the significance of a divide to local drainage patterns. International Journal of Geographical Information Science, 2013, 27, 1453-1468. | 2.2 | 16 |
| 30 | Using Complex Permittivity and Artificial Neural Networks for Contaminant Prediction. Journal of Environmental Engineering, ASCE, 2002, 128, 740-747. | 0.7 | 15 |
| 31 | Modelling suspended sediment lead concentrations in contaminated peatland catchments using digital terrain analysis. Ecological Engineering, 2010, 36, 623-630. | 1.6 | 15 |
| 32 | An Open Source <scp>GIS</scp>â€Based Decision Support System for Watershed Evaluation of Best Management Practices. Journal of the American Water Resources Association, 2017, 53, 521-531. | 1.0 | 15 |
| 33 | An Analysis of Ground-Point Classifiers for Terrestrial LiDAR. Remote Sensing, 2019, 11, 1915. | 1.8 | 15 |
| 34 | DEM Fusion using a modifiedk-means clustering algorithm. International Journal of Digital Earth, 2016, 9, 1242-1255. | 1.6 | 14 |
| 35 | Mapping contemporary magnetic mineral concentrations in peat soils using fine-resolution digital terrain data. Catena, 2007, 70, 465-474. | 2.2 | 12 |
| 36 | Drainage Network Analysis and Structuring of Topologically Noisy Vector Stream Data. ISPRS International Journal of Geo-Information, 2019, 8, 422. | 1.4 | 10 |

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|---|---|---|---|
| 37 | A review of parallel computing applications in calibrating watershed hydrologic models. Environmental Modelling and Software, 2022, 151, 105370. | 1.9 | 10 |
| 38 | Development of an Integrated Modelling System for Evaluating Water Quantity and Quality Effects of Individual Wetlands in an Agricultural Watershed. Water (Switzerland), 2018, 10, 774. | 1.2 | 9 |
| 39 | Within-Field Yield Prediction in Cereal Crops Using LiDAR-Derived Topographic Attributes with Geographically Weighted Regression Models. Remote Sensing, 2021, 13, 4152. | 1.8 | 9 |
| 40 | Comparing the Use of Terrestrial LiDAR Scanners and Pin Profilers for Deriving Agricultural Roughness Statistics. Canadian Journal of Remote Sensing, 2018, 44, 153-168. | 1.1 | 6 |
| 41 | Evaluating Scaling Frameworks for Multiscale Geomorphometric Analysis. Geomatics, 2022, 2, 36-51. | 1.0 | 6 |
| 42 | Measuring Hyperscale Topographic Anisotropy as a Continuous Landscape Property. Geosciences (Switzerland), 2018, 8, 278. | 1.0 | 5 |
| 43 | Smoothing of digital elevation models and the alteration of overland flow path length distributions. Hydrological Processes, 2021, 35, e14271. | 1.1 | 5 |
| 44 | Sensitivity of C-Band SAR Polarimetric Variables to the Directionality of Surface Roughness Parameters. Remote Sensing, 2021, 13, 2210. | 1.8 | 4 |
| 45 | Chapter 16 Geomorphometry in TAS GIS. Developments in Soil Science, 2009, 33, 367-386. | 0.5 | 3 |
| 46 | Automated Mapping of Transportation Embankments in Fine-Resolution LiDAR DEMs. Remote Sensing, 2021, 13, 1308. | 1.8 | 3 |
| 47 | Modelling Channelling and Deflection of Wind by Topography. , 2008, , 383-406. | | 2 |