Joel C Rowland

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

52
papers1,626
citations23
h-index40
g-index61
ext. papers1,985
ext. citations6
avg, IF4.81
L-index

| # | Paper | IF | Citations |
|----|--|---------------|-----------|
| 52 | Organic carbon burial by river meandering partially offsets bank erosion carbon fluxes in a discontinuous permafrost floodplain. <i>Earth Surface Dynamics</i> , 2022 , 10, 421-435 | 3.8 | O |
| 51 | rabpro: global watershed boundaries, river elevation profiles, and catchment statistics. <i>Journal of Open Source Software</i> , 2022 , 7, 4237 | 5.2 | |
| 50 | Climate Signatures on Lake And Wetland Size Distributions in Arctic Deltas. <i>Geophysical Research Letters</i> , 2021 , 48, e2021GL094437 | 4.9 | 2 |
| 49 | Unraveling the Combined Effects of Ice and Permafrost on Arctic Delta Morphodynamics. <i>Journal of Geophysical Research F: Earth Surface</i> , 2021 , 126, e2020JF005706 | 3.8 | 8 |
| 48 | Arctic soil patterns analogous to fluid instabilities. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118, | 11.5 | 2 |
| 47 | Impact of River Channel Lateral Migration on Microbial Communities across a Discontinuous Permafrost Floodplain. <i>Applied and Environmental Microbiology</i> , 2021 , 87, e0133921 | 4.8 | 1 |
| 46 | Effects of different vegetation drag parameterizations on the tidal propagation in coastal marshlands. <i>Journal of Hydrology</i> , 2021 , 603, 126775 | 6 | 2 |
| 45 | Representing the function and sensitivity of coastal interfaces in Earth system models. <i>Nature Communications</i> , 2020 , 11, 2458 | 17.4 | 55 |
| 44 | Channel Network Control on Seasonal Lake Area Dynamics in Arctic Deltas. <i>Geophysical Research Letters</i> , 2020 , 47, e2019GL086710 | 4.9 | 3 |
| 43 | Determining flow directions in river channel networks using planform morphology and topology. <i>Earth Surface Dynamics</i> , 2020 , 8, 87-102 | 3.8 | 7 |
| 42 | Global-scale human impact on delta morphology has led to net land area gain. <i>Nature</i> , 2020 , 577, 514-5 | 1§ 0.4 | 117 |
| 41 | Understanding the Eco-Geomorphologic Feedback of Coastal Marsh Under Sea Level Rise: Vegetation Dynamic Representations, Processes Interaction, and Parametric Sensitivity. <i>Journal of Geophysical Research F: Earth Surface</i> , 2020 , 125, e2020JF005729 | 3.8 | 3 |
| 40 | Arctic River Delta Morphologic Variability and Implications for Riverine Fluxes to the Coast. <i>Journal of Geophysical Research F: Earth Surface</i> , 2020 , 125, e2019JF005250 | 3.8 | 20 |
| 39 | Estimating Sediment Settling Velocities from a Theoretically Guided Data-Driven Approach. <i>Journal of Hydraulic Engineering</i> , 2020 , 146, 04020067 | 1.8 | 4 |
| 38 | Ice and Permafrost Effects on Delta Morphology and Channel Dynamics. <i>Geophysical Research Letters</i> , 2019 , 46, 6574-6582 | 4.9 | 24 |
| 37 | Investigating Microtopographic and Soil Controls on a Mountainous Meadow Plant Community Using High-Resolution Remote Sensing and Surface Geophysical Data. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2019 , 124, 1618-1636 | 3.7 | 14 |
| 36 | From Grain to Floodplain: Evaluating heterogeneity of floodplain hydrostatigraphy using sedimentology, geophysics, and remote sensing. <i>Earth Surface Processes and Landforms</i> , 2019 , 44, 1799 | 3.7 | 6 |

(2013-2017)

| 35 | Large uncertainty in permafrost carbon stocks due to hillslope soil deposits. <i>Geophysical Research Letters</i> , 2017 , 44, 6134-6144 | 4.9 | 14 |
|----|--|------|----|
| 34 | From documentation to prediction: raising the bar for thermokarst research. <i>Hydrogeology Journal</i> , 2016 , 24, 645-648 | 3.1 | 9 |
| 33 | Effect of soil property uncertainties on permafrost thaw projections: a calibration-constrained analysis. <i>Cryosphere</i> , 2016 , 10, 341-358 | 5.5 | 25 |
| 32 | Preface: Land subsidence processes. <i>Hydrogeology Journal</i> , 2016 , 24, 547-550 | 3.1 | 27 |
| 31 | A morphology independent methodology for quantifying planview river change and characteristics from remotely sensed imagery. <i>Remote Sensing of Environment</i> , 2016 , 184, 212-228 | 13.2 | 40 |
| 30 | Dynamics of river mouth deposits. <i>Reviews of Geophysics</i> , 2015 , 53, 642-672 | 23.1 | 91 |
| 29 | Forecasting the response of Earth\s surface to future climatic and land use changes: A review of methods and research needs. <i>Earthrs Future</i> , 2015 , 3, 220-251 | 7.9 | 77 |
| 28 | A hydrologic routing model suitable for climate-scale simulations of arctic rivers: application to the Mackenzie River Basin. <i>Hydrological Processes</i> , 2015 , 29, 2751-2768 | 3.3 | 11 |
| 27 | Recursive active contours for hierarchical segmentation of wetlands in high-resolution satellite imagery of Arctic landscapes 2014 , | | 4 |
| 26 | Temporal and spatial pattern of thermokarst lake area changes at Yukon Flats, Alaska. <i>Hydrological Processes</i> , 2014 , 28, 837-852 | 3.3 | 42 |
| 25 | Extrapolating active layer thickness measurements across Arctic polygonal terrain using LiDAR and data sets. <i>Water Resources Research</i> , 2014 , 50, 6339-6357 | 5.4 | 45 |
| 24 | Change detection and classification of land cover in multispectral satellite imagery using clustering of sparse approximations (CoSA) over learned feature dictionaries 2014 , | | 1 |
| 23 | Land cover classification in multispectral imagery using clustering of sparse approximations over learned feature dictionaries. <i>Journal of Applied Remote Sensing</i> , 2014 , 8, 084793 | 1.4 | 11 |
| 22 | Land cover classification in multispectral satellite imagery using sparse approximations on learned dictionaries 2014 , | | 3 |
| 21 | Undercomplete learned dictionaries for land cover classification in multispectral imagery of Arctic landscapes using CoSA: clustering of sparse approximations 2013 , | | 5 |
| 20 | The Importance of Natural Variability in Lake Areas on the Detection of Permafrost Degradation: A Case Study in the Yukon Flats, Alaska. <i>Permafrost and Periglacial Processes</i> , 2013 , 24, 224-240 | 4.2 | 19 |
| 19 | Erosion at inception of deep-sea channels. <i>Marine and Petroleum Geology</i> , 2013 , 41, 48-61 | 4.7 | 87 |
| 18 | Arctic tundra ice-wedge landscape characterization by active contours without edges and structural analysis using high-resolution satellite imagery. <i>Remote Sensing Letters</i> , 2013 , 4, 1077-1086 | 2.3 | 14 |

| 17 | Unsupervised land cover classification in multispectral imagery with sparse representations on learned dictionaries 2012 , | | 6 |
|----|--|-----|-----|
| 16 | Learning sparse discriminative representations for land cover classification in the Arctic 2012, | | 4 |
| 15 | The role of advective heat transport in talik development beneath lakes and ponds in discontinuous permafrost. <i>Geophysical Research Letters</i> , 2011 , 38, n/a-n/a | 4.9 | 89 |
| 14 | A Test of Initiation of Submarine Leveed Channels by Deposition Alone. <i>Journal of Sedimentary Research</i> , 2010 , 80, 710-727 | 2.1 | 26 |
| 13 | Arctic Landscapes in Transition: Responses to Thawing Permafrost. <i>Eos</i> , 2010 , 91, 229-230 | 1.5 | 173 |
| 12 | Morphodynamics of subaqueous levee formation: Insights into river mouth morphologies arising from experiments. <i>Journal of Geophysical Research</i> , 2010 , 115, | | 35 |
| 11 | Response of Alum Rock springs to the October 30, 2007 Alum Rock earthquake and implications for the origin of increased discharge after earthquakes. <i>Geofluids</i> , 2009 , 9, 237-250 | 1.5 | 69 |
| 10 | Formation and maintenance of single-thread tie channels entering floodplain lakes: Observations from three diverse river systems. <i>Journal of Geophysical Research</i> , 2009 , 114, | | 58 |
| 9 | Turbulent characteristics of a shallow wall-bounded plane jet: experimental implications for river mouth hydrodynamics. <i>Journal of Fluid Mechanics</i> , 2009 , 627, 423-449 | 3.7 | 46 |
| 8 | The influence of poorly interconnected fault zone flow paths on spring geochemistry. <i>Geofluids</i> , 2008 , 8, 93-101 | 1.5 | 20 |
| 7 | The depositional web on the floodplain of the Fly River, Papua New Guinea. <i>Journal of Geophysical Research</i> , 2008 , 113, | | 67 |
| 6 | Chapter 3 The Rapid Spread of Mine-Derived Sediment across the Middle Fly River Floodplain. <i>Developments in Earth and Environmental Sciences</i> , 2008 , 9, 113-152 | | |
| 5 | Tie channel sedimentation rates, oxbow formation age and channel migration rate from optically stimulated luminescence (OSL) analysis of floodplain deposits. <i>Earth Surface Processes and Landforms</i> , 2005 , 30, 1161-1179 | 3.7 | 74 |
| 4 | Dispersal of mercury-contaminated sediments by geomorphic processes, sixmile canyon, Nevada, USA: Implications to site characterization and remediation of fluvial environments. <i>Water, Air, and Soil Pollution</i> , 1996 , 86, 373-388 | 2.6 | 87 |
| 3 | An integrated approach to the determination of the quantity, distribution, and dispersal of mercury in Lahontan Reservoir, Nevada, USA. <i>Journal of Geochemical Exploration</i> , 1995 , 52, 45-55 | 3.8 | 23 |
| 2 | Evolution of a conjugate passive margin pair in Mesozoic southern Turkey. <i>Tectonics</i> , 1993 , 12, 954-970 | 4.3 | 52 |
| 1 | Effect of soil property uncertainties on permafrost thaw projections: a calibration-constrained analysis | | 4 |