Joel C Rowland

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/626413/publications.pdf

Version: 2024-02-01

236925 214800 2,347 53 25 47 citations h-index g-index papers 61 61 61 3017 docs citations times ranked citing authors all docs

#	Article	IF	Citations
1	Global-scale human impact on delta morphology has led to net land area gain. Nature, 2020, 577, 514-518.	27.8	241
2	Arctic Landscapes in Transition: Responses to Thawing Permafrost. Eos, 2010, 91, 229-230.	0.1	230
3	Representing the function and sensitivity of coastal interfaces in Earth system models. Nature Communications, 2020, 11, 2458.	12.8	153
4	Dynamics of river mouth deposits. Reviews of Geophysics, 2015, 53, 642-672.	23.0	133
5	Erosion at inception of deep-sea channels. Marine and Petroleum Geology, 2013, 41, 48-61.	3.3	118
6	The role of advective heat transport in talik development beneath lakes and ponds in discontinuous permafrost. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	109
7	Forecasting the response of Earth's surface to future climatic and land use changes: A review of methods and research needs. Earth's Future, 2015, 3, 220-251.	6.3	98
8	Tie channel sedimentation rates, oxbow formation age and channel migration rate from optically stimulated luminescence (OSL) analysis of floodplain deposits. Earth Surface Processes and Landforms, 2005, 30, 1161-1179.	2.5	96
9	Dispersal of mercury-contaminated sediments by geomorphic processes, sixmile canyon, Nevada, USA: Implications to site characterization and remediation of fluvial environments. Water, Air, and Soil Pollution, 1996, 86, 373-388.	2.4	94
10	The depositional web on the floodplain of the Fly River, Papua New Guinea. Journal of Geophysical Research, 2008, 113 , .	3.3	82
11	Response of Alum Rock springs to the October 30, 2007 Alum Rock earthquake and implications for the origin of increased discharge after earthquakes. Geofluids, 2009, 9, 237-250.	0.7	77
12	Formation and maintenance of singleâ€thread tie channels entering floodplain lakes: Observations from three diverse river systems. Journal of Geophysical Research, 2009, 114, .	3.3	77
13	A morphology independent methodology for quantifying planview river change and characteristics from remotely sensed imagery. Remote Sensing of Environment, 2016, 184, 212-228.	11.0	68
14	Evolution of a conjugate passive margin pair in Mesozoic southern Turkey. Tectonics, 1993, 12, 954-970.	2.8	58
15	Extrapolating active layer thickness measurements across Arctic polygonal terrain using LiDAR and <i>NDVI</i> data sets. Water Resources Research, 2014, 50, 6339-6357.	4.2	51
16	Turbulent characteristics of a shallow wall-bounded plane jet: experimental implications for river mouth hydrodynamics. Journal of Fluid Mechanics, 2009, 627, 423-449.	3.4	50
17	Temporal and spatial pattern of thermokarst lake area changes at Yukon Flats, Alaska. Hydrological Processes, 2014, 28, 837-852.	2.6	49
18	Preface: Land subsidence processes. Hydrogeology Journal, 2016, 24, 547-550.	2.1	48

#	Article	IF	CITATIONS
19	Morphodynamics of subaqueous levee formation: Insights into river mouth morphologies arising from experiments. Journal of Geophysical Research, 2010, 115, .	3.3	44
20	Ice and Permafrost Effects on Delta Morphology and Channel Dynamics. Geophysical Research Letters, 2019, 46, 6574-6582.	4.0	36
21	A Test of Initiation of Submarine Leveed Channels by Deposition Alone. Journal of Sedimentary Research, 2010, 80, 710-727.	1.6	34
22	From documentation to prediction: raising the bar for thermokarst research. Hydrogeology Journal, 2016, 24, 645-648.	2.1	34
23	Effect of soil property uncertainties on permafrost thaw projections: a calibration-constrained analysis. Cryosphere, 2016, 10, 341-358.	3.9	33
24	Large uncertainty in permafrost carbon stocks due to hillslope soil deposits. Geophysical Research Letters, 2017, 44, 6134-6144.	4.0	31
25	Arctic River Delta Morphologic Variability and Implications for Riverine Fluxes to the Coast. Journal of Geophysical Research F: Earth Surface, 2020, 125, e2019JF005250.	2.8	29
26	An integrated approach to the determination of the quantity, distribution, and dispersal of mercury in Lahontan Reservoir, Nevada, USA. Journal of Geochemical Exploration, 1995, 52, 45-55.	3.2	26
27	The influence of poorly interconnected fault zone flow paths on spring geochemistry. Geofluids, 2008, 8, 93-101.	0.7	25
28	Investigating Microtopographic and Soil Controls on a Mountainous Meadow Plant Community Using Highâ∈Resolution Remote Sensing and Surface Geophysical Data. Journal of Geophysical Research G: Biogeosciences, 2019, 124, 1618-1636.	3.0	23
29	The Importance of Natural Variability in Lake Areas on the Detection of Permafrost Degradation: A Case Study in the Yukon Flats, Alaska. Permafrost and Periglacial Processes, 2013, 24, 224-240.	3.4	21
30	Unraveling the Combined Effects of Ice and Permafrost on Arctic Delta Morphodynamics. Journal of Geophysical Research F: Earth Surface, 2021, 126, e2020JF005706.	2.8	19
31	Arctic tundra ice-wedge landscape characterization by active contours without edges and structural analysis using high-resolution satellite imagery. Remote Sensing Letters, 2013, 4, 1077-1086.	1.4	15
32	A hydrologic routing model suitable for climateâ€scale simulations of arctic rivers: application to the Mackenzie River Basin. Hydrological Processes, 2015, 29, 2751-2768.	2.6	14
33	Land cover classification in multispectral imagery using clustering of sparse approximations over learned feature dictionaries. Journal of Applied Remote Sensing, 2014, 8, 084793.	1.3	13
34	Determining flow directions in river channel networks using planform morphology and topology. Earth Surface Dynamics, 2020, 8, 87-102.	2.4	13
35	Arctic soil patterns analogous to fluid instabilities. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118 , .	7.1	12
36	Organic carbon burial by river meandering partially offsets bank erosion carbon fluxes in a discontinuous permafrost floodplain. Earth Surface Dynamics, 2022, 10, 421-435.	2.4	12

#	Article	IF	CITATIONS
37	From Grain to Floodplain: Evaluating heterogeneity of floodplain hydrostatigraphy using sedimentology, geophysics, and remote sensing. Earth Surface Processes and Landforms, 2019, 44, 1799-1815.	2.5	11
38	Understanding the Ecoâ€Geomorphologic Feedback of Coastal Marsh Under Sea Level Rise: Vegetation Dynamic Representations, Processes Interaction, and Parametric Sensitivity. Journal of Geophysical Research F: Earth Surface, 2020, 125, e2020JF005729.	2.8	11
39	Unsupervised land cover classification in multispectral imagery with sparse representations on learned dictionaries. , 2012 , , .		7
40	Undercomplete learned dictionaries for land cover classification in multispectral imagery of Arctic landscapes using CoSA: clustering of sparse approximations. Proceedings of SPIE, 2013, , .	0.8	6
41	Learning sparse discriminative representations for land cover classification in the Arctic. Proceedings of SPIE, 2012, , .	0.8	5
42	Recursive active contours for hierarchical segmentation of wetlands in high-resolution satellite imagery of Arctic landscapes. , 2014 , , .		5
43	Estimating Sediment Settling Velocities from a Theoretically Guided Data-Driven Approach. Journal of Hydraulic Engineering, 2020, 146, .	1.5	5
44	Channel Network Control on Seasonal Lake Area Dynamics in Arctic Deltas. Geophysical Research Letters, 2020, 47, e2019GL086710.	4.0	5
45	Land cover classification in multispectral satellite imagery using sparse approximations on learned dictionaries. Proceedings of SPIE, 2014, , .	0.8	4
46	Climate Signatures on Lake And Wetland Size Distributions in Arctic Deltas. Geophysical Research Letters, 2021, 48, e2021GL094437.	4.0	4
47	Impact of Coastal Marsh Ecoâ€Geomorphologic Change on Saltwater Intrusion Under Future Sea Level Rise. Water Resources Research, 2022, 58, .	4.2	4
48	Impact of River Channel Lateral Migration on Microbial Communities across a Discontinuous Permafrost Floodplain. Applied and Environmental Microbiology, 2021, 87, e0133921.	3.1	3
49	Effects of different vegetation drag parameterizations on the tidal propagation in coastal marshlands. Journal of Hydrology, 2021, 603, 126775.	5.4	3
50	Change detection and classification of land cover in multispectral satellite imagery using clustering of sparse approximations (CoSA) over learned feature dictionaries. , 2014, , .		2
51	rabpro: global watershed boundaries, river elevation profiles, and catchment statistics. Journal of Open Source Software, 2022, 7, 4237.	4.6	2
52	Chapter 3 The Rapid Spread of Mine-Derived Sediment across the Middle Fly River Floodplain. Developments in Earth and Environmental Sciences, 2008, 9, 113-152.	0.1	0
53	Change detection in Arctic satellite imagery using clustering of sparse approximations (CoSA) over learned feature dictionaries. Proceedings of SPIE, 2015, , .	0.8	0