

# Colin Gleason

## List of Publications by Year in descending order

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Version: 2024-02-01

39  
papers

1,962  
citations

304602

22  
h-index

289141

40  
g-index

41  
all docs

41  
docs citations

41  
times ranked

1844  
citing authors

#	ARTICLE	IF	CITATIONS
1	RODEO: An algorithm and Google Earth Engine application for river discharge retrieval from Landsat. Environmental Modelling and Software, 2022, 148, 105254.	1.9	15
2	The importance of hydrology in routing terrestrial carbon to the atmosphere via global streams and rivers. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2106322119.	3.3	48
3	The Importance of Lake Emergent Aquatic Vegetation for Estimating Arcticâ€Boreal Methane Emissions. Journal of Geophysical Research G: Biogeosciences, 2022, 127, .	1.3	11
4	Combining Optical Remote Sensing, McFLI Discharge Estimation, Global Hydrologic Modeling, and Data Assimilation to Improve Daily Discharge Estimates Across an Entire Large Watershed. Water Resources Research, 2021, 57, e2020WR027794.	1.7	16
5	Discharge Estimation From Dense Arrays of Pressure Transducers. Water Resources Research, 2021, 57, e2020WR028714.	1.7	4
6	Hourly surface meltwater routing for a Greenlandic supraglacial catchment across hillslopes and through a dense topological channel network. Cryosphere, 2021, 15, 2315-2331.	1.5	7
7	Exploring the Factors Controlling the Error Characteristics of the Surface Water and Ocean Topography Mission Discharge Estimates. Water Resources Research, 2021, 57, e2020WR028519.	1.7	14
8	Lake Morphometry and River Network Controls on Evasion of Terrestrially Sourced Headwater CO 2. Geophysical Research Letters, 2021, 48, .	1.5	11
9	Recent changes to Arctic river discharge. Nature Communications, 2021, 12, 6917.	5.8	62
10	Constraining Remote River Discharge Estimation Using Reachâ€Scale Geomorphology. Water Resources Research, 2020, 56, e2020WR027949.	1.7	24
11	Constraining the Assimilation of SWOT Observations With Hydraulic Geometry Relations. Water Resources Research, 2020, 56, e2019WR026611.	1.7	18
12	Remote Sensing of River Discharge: A Review and a Framing for the Discipline. Remote Sensing, 2020, 12, 1107.	1.8	79
13	Antarctic Supraglacial Lake Identification Using Landsat-8 Image Classification. Remote Sensing, 2020, 12, 1327.	1.8	11
14	Small Arctic rivers mapped from Sentinel-2 satellite imagery and ArcticDEM. Journal of Hydrology, 2020, 584, 124689.	2.3	16
15	Direct Observation of Winter Meltwater Drainage From the Greenland Ice Sheet. Geophysical Research Letters, 2020, 47, e2019GL086521.	1.5	15
16	Reconciling atâ€Station and atâ€Manyâ€Stations Hydraulic Geometry Through Riverâ€Wide Geomorphology. Geophysical Research Letters, 2019, 46, 9637-9647.	1.5	18
17	Canadaâ€™s Contributions to the SWOT Mission â€ Terrestrial Hydrology(SWOT-C TH). Canadian Journal of Remote Sensing, 2019, 45, 116-138.	1.1	9
18	Global Reconstruction of Naturalized River Flows at 2.94 Million Reaches. Water Resources Research, 2019, 55, 6499-6516.	1.7	175

#	ARTICLE	IF	CITATIONS
19	Surface meltwater runoff on the Greenland ice sheet estimated from remotely sensed supraglacial lake infilling rate. <i>Remote Sensing of Environment</i> , 2019, 234, 111459.	4.6	19
20	Comparing Discharge Estimates Made via the BAM Algorithm in High-Order Arctic Rivers Derived Solely From Optical CubeSat, Landsat, and Sentinel-2 Data. <i>Water Resources Research</i> , 2019, 55, 7753-7771.	1.7	47
21	A High-Resolution Airborne Color-Infrared Camera Water Mask for the NASA ABoVE Campaign. <i>Remote Sensing</i> , 2019, 11, 2163.	1.8	26
22	Similarity of stream width distributions across headwater systems. <i>Nature Communications</i> , 2018, 9, 610.	5.8	64
23	Verifying the prevalence, properties, and congruent hydraulics of at-many-stations hydraulic geometry (AMHG) for rivers in the continental United States. <i>Journal of Hydrology</i> , 2018, 556, 625-633.	2.3	16
24	A Hybrid of Optical Remote Sensing and Hydrological Modeling Improves Water Balance Estimation. <i>Journal of Advances in Modeling Earth Systems</i> , 2018, 10, 2-17.	1.3	31
25	Crossing the (watershed) divide: satellite data and the changing politics of international river basins. <i>Geographical Journal</i> , 2017, 183, 2-15.	1.6	43
26	Production, Property, and the Construction of Remotely Sensed Data. <i>Annals of the American Association of Geographers</i> , 2017, 107, 1075-1089.	1.5	10
27	Direct measurements of meltwater runoff on the Greenland ice sheet surface. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E10622-E10631.	3.3	66
28	BAM: Bayesian AMHG-Manning Inference of Discharge Using Remotely Sensed Stream Width, Slope, and Height. <i>Water Resources Research</i> , 2017, 53, 9692-9707.	1.7	57
29	Tracking River Flows from Space. <i>Eos</i> , 2017, , .	0.1	17
30	An intercomparison of remote sensing river discharge estimation algorithms from measurements of river height, width, and slope. <i>Water Resources Research</i> , 2016, 52, 4527-4549.	1.7	163
31	Characterizing supraglacial meltwater channel hydraulics on the Greenland Ice Sheet from <i>in situ</i> observations. <i>Earth Surface Processes and Landforms</i> , 2016, 41, 2111-2122.	1.2	24
32	Benchmarking wide swath altimetry-based river discharge estimation algorithms for the Ganges river system. <i>Water Resources Research</i> , 2016, 52, 2439-2461.	1.7	46
33	CryoSheds: a GIS modeling framework for delineating land-ice watersheds for the Greenland Ice Sheet. <i>GIScience and Remote Sensing</i> , 2016, 53, 707-722.	2.4	13
34	Fluvial morphometry of supraglacial river networks on the southwest Greenland Ice Sheet. <i>GIScience and Remote Sensing</i> , 2016, 53, 459-482.	2.4	29
35	Theoretical basis for at-many-stations hydraulic geometry. <i>Geophysical Research Letters</i> , 2015, 42, 7107-7114.	1.5	76
36	A Caution on the Use of Surface Digital Elevation Models to Simulate Supraglacial Hydrology of the Greenland Ice Sheet. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2015, 8, 5212-5224.	2.3	35

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37	Efficient meltwater drainage through supraglacial streams and rivers on the southwest Greenland ice sheet. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 1001-1006.	3.3	163
38	Toward global mapping of river discharge using satellite images and at-many-stations hydraulic geometry. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 4788-4791.	3.3	262
39	Retrieval of river discharge solely from satellite imagery and at-many-stations hydraulic geometry: Sensitivity to river form and optimization parameters. Water Resources Research, 2014, 50, 9604-9619.	1.7	119