

# Colin J Gleason

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/11411354/publications.pdf>

Version: 2024-02-01

29  
papers

1,905  
citations

361413

20  
h-index

454955

30  
g-index

30  
all docs

30  
docs citations

30  
times ranked

2324  
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	7.1	262
2	Forest biomass estimation from airborne LiDAR data using machine learning approaches. Remote Sensing of Environment, 2012, 125, 80-91.	11.0	244
3	Global Reconstruction of Naturalized River Flows at 2.94 Million Reaches. Water Resources Research, 2019, 55, 6499-6516.	4.2	175
4	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.	7.1	163
5	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.	4.2	119
6	A Review of Remote Sensing of Forest Biomass and Biofuel: Options for Small-Area Applications. GIScience and Remote Sensing, 2011, 48, 141-170.	5.9	88
7	Remote Sensing of River Discharge: A Review and a Framing for the Discipline. Remote Sensing, 2020, 12, 1107.	4.0	79
8	Theoretical basis for at-many-stations hydraulic geometry. Geophysical Research Letters, 2015, 42, 7107-7114.	4.0	76
9	Direct measurements of meltwater runoff on the Greenland ice sheet surface. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E10622-E10631.	7.1	66
10	Similarity of stream width distributions across headwater systems. Nature Communications, 2018, 9, 610.	12.8	64
11	Recent changes to Arctic river discharge. Nature Communications, 2021, 12, 6917.	12.8	62
12	Comparing Discharge Estimates Made via the BAM Algorithm in High-Order Arctic Rivers Derived Solely From Optical CubeSat, Landsat, and Sentinel-2 Data. Water Resources Research, 2019, 55, 7753-7771.	4.2	47
13	Benchmarking wide swath altimetry-based river discharge estimation algorithms for the Ganges river system. Water Resources Research, 2016, 52, 2439-2461.	4.2	46
14	Crossing the (watershed) divide: satellite data and the changing politics of international river basins. Geographical Journal, 2017, 183, 2-15.	3.1	43
15	A Caution on the Use of Surface Digital Elevation Models to Simulate Supraglacial Hydrology of the Greenland Ice Sheet. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2015, 8, 5212-5224.	4.9	35
16	A Hybrid of Optical Remote Sensing and Hydrological Modeling Improves Water Balance Estimation. Journal of Advances in Modeling Earth Systems, 2018, 10, 2-17.	3.8	31
17	Fluvial morphometry of supraglacial river networks on the southwest Greenland Ice Sheet. GIScience and Remote Sensing, 2016, 53, 459-482.	5.9	29
18	Characterizing supraglacial meltwater channel hydraulics on the Greenland Ice Sheet from in situ observations. Earth Surface Processes and Landforms, 2016, 41, 2111-2122.	2.5	24

#	ARTICLE	IF	CITATIONS
19	A Fusion Approach for Tree Crown Delineation from Lidar Data. <i>Photogrammetric Engineering and Remote Sensing</i> , 2012, 78, 679-692.	0.6	24
20	The politics of pixels: A review and agenda for critical remote sensing. <i>Progress in Human Geography</i> , 2022, 46, 729-752.	5.6	22
21	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.	11.0	19
22	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.	5.4	16
23	Small Arctic rivers mapped from Sentinel-2 satellite imagery and ArcticDEM. <i>Journal of Hydrology</i> , 2020, 584, 124689.	5.4	16
24	Combining Optical Remote Sensing, McFLI Discharge Estimation, Global Hydrologic Modeling, and Data Assimilation to Improve Daily Discharge Estimates Across an Entire Large Watershed. <i>Water Resources Research</i> , 2021, 57, e2020WR027794.	4.2	16
25	Direct Observation of Winter Meltwater Drainage From the Greenland Ice Sheet. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL086521.	4.0	15
26	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.	5.9	13
27	Antarctic Supraglacial Lake Identification Using Landsat-8 Image Classification. <i>Remote Sensing</i> , 2020, 12, 1327.	4.0	11
28	Production, Property, and the Construction of Remotely Sensed Data. <i>Annals of the American Association of Geographers</i> , 2017, 107, 1075-1089.	2.2	10
29	Hourly surface meltwater routing for a Greenlandic supraglacial catchment across hillslopes and through a dense topological channel network. <i>Cryosphere</i> , 2021, 15, 2315-2331.	3.9	7