George H Allen

List of Publications by Year
in descending order

40 papers	3,160 citations	201575 27 h-index	276775 41 g-index
44 all docs	44 docs citations	44 times ranked	3366 citing authors

#	Article	IF	Citations
1	Regional trends and drivers of the global methane budget. Global Change Biology, 2022, 28, 182-200.	4.2	56
2	RODEO: An algorithm and Google Earth Engine application for river discharge retrieval from Landsat. Environmental Modelling and Software, 2022, 148, 105254.	1.9	15
3	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
4	GeoDAR: georeferenced global dams and reservoirs dataset for bridging attributes and geolocations. Earth System Science Data, 2022, 14, 1869-1899.	3.7	58
5	Assessing placement bias of the global river gauge network. Nature Sustainability, 2022, 5, 586-592.	11.5	51
6	Greenhouse gas emissions from African lakes are no longer a blind spot. Science Advances, 2022, 8, .	4.7	25
7	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
8	Spatial Patterns and Drivers of Nonperennial Flow Regimes in the Contiguous United States. Geophysical Research Letters, 2021, 48, e2020GL090794.	1.5	54
9	A new vector-based global river network dataset accounting for variable drainage density. Scientific Data, 2021, 8, 28.	2.4	42
10	Constructing Reservoir Areaâ€“Volumeâ€“Elevation Curve from TanDEM-X DEM Data. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 2249-2257.	2.3	12
11	Half of global methane emissions come from highly variable aquatic ecosystem sources. Nature Geoscience, 2021, 14, 225-230.	5.4	388
12	River network travel time is correlated with dissolved organic matter composition in rivers of the contiguous United States. Hydrological Processes, 2021, 35, e14124.	1.1	11
13	Global riverine nitrous oxide emissions: The role of small streams and large rivers. Science of the Total Environment, 2021, 776, 145148.	3.9	45
14	Pervasive changes in stream intermittency across the United States. Environmental Research Letters, 2021, 16, 084033.	2.2	47
15	RivWidthCloud: An Automated Google Earth Engine Algorithm for River Width Extraction From Remotely Sensed Imagery. IEEE Geoscience and Remote Sensing Letters, 2020, 17, 217-221.	1.4	70
16	The past and future of global river ice. Nature, 2020, 577, 69-73.	13.7	109
17	Editorial for the Special Issue â€œRemote Sensing of Flow Velocity, Channel Bathymetry, and River Dischargeâ€. Remote Sensing, 2020, 12, 2304.	1.8	1
18	Whatâ€™s in a Name? Patterns, Trends, and Suggestions for Defining Non-Perennial Rivers and Streams. Water (Switzerland), 2020, 12, 1980.	1.2	49

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19	Timing of Landsat Overpasses Effectively Captures Flow Conditions of Large Rivers. Remote Sensing, 2020, 12, 1510.	1.8	23
20	Global Estimates of Reachâ€Level Bankfull River Width Leveraging Big Data Geospatial Analysis. Geophysical Research Letters, 2020, 47, e2019GL086405.	1.5	37
21	Zero or not? Causes and consequences of zeroâ€flow stream gage readings. Wiley Interdisciplinary Reviews: Water, 2020, 7, e1436.	2.8	63
22	Global River Radar Altimetry Time Series (GRRATS): new river elevation earth science data records for the hydrologic community. Earth System Science Data, 2020, 12, 137-150.	3.7	25
23	What's in a Name? Patterns, Trends, and Suggestions for Defining Non-Perennial Rivers and Streams. Water (Switzerland), 2020, 12, 1980.	1.2	4
24	Temporally Variable Stream Width and Surface Area Distributions in a Headwater Catchment. Water Resources Research, 2019, 55, 7166-7181.	1.7	17
25	Global Reconstruction of Naturalized River Flows at 2.94 Million Reaches. Water Resources Research, 2019, 55, 6499-6516.	1.7	175
26	Variations in dissolved greenhouse gases (CO₂,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 472 T River network overwhelmingly driven by fluvial-wetland connectivity. Biogeosciences, 2019, 16, 3801-3834.	1.3	93
27	Evaluation of Available Global Runoff Datasets Through a River Model in Support of Transboundary Water Management in South and Southeast Asia. Frontiers in Environmental Science, 2019, 7, .	1.5	15
28	MERIT Hydro: A Highâ€Resolution Global Hydrography Map Based on Latest Topography Dataset. Water Resources Research, 2019, 55, 5053-5073.	1.7	396
29	Global Relationships Between River Width, Slope, Catchment Area, Meander Wavelength, Sinuosity, and Discharge. Geophysical Research Letters, 2019, 46, 3252-3262.	1.5	91
30	Near-real-time non-obstructed flood inundation mapping using synthetic aperture radar. Remote Sensing of Environment, 2019, 221, 302-315.	4.6	103
31	AirSWOT InSAR Mapping of Surface Water Elevations and Hydraulic Gradients Across the Yukon Flats Basin, Alaska. Water Resources Research, 2019, 55, 937-953.	1.7	29
32	Similarity of stream width distributions across headwater systems. Nature Communications, 2018, 9, 610.	5.8	64
33	Global Estimates of River Flow Wave Travel Times and Implications for Lowâ€Latency Satellite Data. Geophysical Research Letters, 2018, 45, 7551-7560.	1.5	39
34	Global extent of rivers and streams. Science, 2018, 361, 585-588.	6.0	436
35	AirSWOT measurements of river water surface elevation and slope: Tanana River, AK. Geophysical Research Letters, 2017, 44, 181-189.	1.5	55
36	Estimating Flood Discharges in Reservoir-Regulated River Basins by Integrating Synthetic SWOT Satellite Observations and Hydrologic Modeling. Journal of Hydrologic Engineering - ASCE, 2016, 21, .	0.8	21

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37	Patterns of river width and surface area revealed by the satelliteâ€derived North American River Width data set. Geophysical Research Letters, 2015, 42, 395-402.	1.5	118
38	Quantifying river form variations in the Mississippi Basin using remotely sensed imagery. Hydrology and Earth System Sciences, 2014, 18, 4883-4895.	1.9	18
39	Assessing the potential global extent of SWOT river discharge observations. Journal of Hydrology, 2014, 519, 1516-1525.	2.3	142
40	Lithologic and tectonic controls on bedrock channel form at the northwest Himalayan front. Journal of Geophysical Research F: Earth Surface, 2013, 118, 1806-1825.	1.0	85