

George H Allen

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

3,160
citations

201674

27
h-index

276875

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. <i>Global Change Biology</i> , 2022, 28, 182-200.	9.5	56
2	RODEO: An algorithm and Google Earth Engine application for river discharge retrieval from Landsat. <i>Environmental Modelling and Software</i> , 2022, 148, 105254.	4.5	15
3	The importance of hydrology in routing terrestrial carbon to the atmosphere via global streams and rivers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, e2106322119.	7.1	48
4	GeoDAR: georeferenced global dams and reservoirs dataset for bridging attributes and geolocations. <i>Earth System Science Data</i> , 2022, 14, 1869-1899.	9.9	58
5	Assessing placement bias of the global river gauge network. <i>Nature Sustainability</i> , 2022, 5, 586-592.	23.7	51
6	Greenhouse gas emissions from African lakes are no longer a blind spot. <i>Science Advances</i> , 2022, 8, .	10.3	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. <i>Water Resources Research</i> , 2021, 57, e2020WR027794.	4.2	16
8	Spatial Patterns and Drivers of Nonperennial Flow Regimes in the Contiguous United States. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL090794.	4.0	54
9	A new vector-based global river network dataset accounting for variable drainage density. <i>Scientific Data</i> , 2021, 8, 28.	5.3	42
10	Constructing Reservoir Areaâ€œVolumeâ€œElevation Curve from TanDEM-X DEM Data. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2021, 14, 2249-2257.	4.9	12
11	Half of global methane emissions come from highly variable aquatic ecosystem sources. <i>Nature Geoscience</i> , 2021, 14, 225-230.	12.9	388
12	River network travel time is correlated with dissolved organic matter composition in rivers of the contiguous United States. <i>Hydrological Processes</i> , 2021, 35, e14124.	2.6	11
13	Global riverine nitrous oxide emissions: The role of small streams and large rivers. <i>Science of the Total Environment</i> , 2021, 776, 145148.	8.0	45
14	Pervasive changes in stream intermittency across the United States. <i>Environmental Research Letters</i> , 2021, 16, 084033.	5.2	47
15	RivWidthCloud: An Automated Google Earth Engine Algorithm for River Width Extraction From Remotely Sensed Imagery. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2020, 17, 217-221.	3.1	70
16	The past and future of global river ice. <i>Nature</i> , 2020, 577, 69-73.	27.8	109
17	Editorial for the Special Issue â€œRemote Sensing of Flow Velocity, Channel Bathymetry, and River Dischargeâ€œ. <i>Remote Sensing</i> , 2020, 12, 2304.	4.0	1
18	Whatâ€™s in a Name? Patterns, Trends, and Suggestions for Defining Non-Perennial Rivers and Streams. <i>Water (Switzerland)</i> , 2020, 12, 1980.	2.7	49

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19	Timing of Landsat Overpasses Effectively Captures Flow Conditions of Large Rivers. <i>Remote Sensing</i> , 2020, 12, 1510.	4.0	23
20	Global Estimates of Reachâ€Level Bankfull River Width Leveraging Big Data Geospatial Analysis. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL086405.	4.0	37
21	Zero or not? Causes and consequences of zeroâ€flow stream gage readings. <i>Wiley Interdisciplinary Reviews: Water</i> , 2020, 7, e1436.	6.5	63
22	Global River Radar Altimetry Time Series (GRRATS): new river elevation earth science data records for the hydrologic community. <i>Earth System Science Data</i> , 2020, 12, 137-150.	9.9	25
23	What's in a Name? Patterns, Trends, and Suggestions for Defining Non-Perennial Rivers and Streams. <i>Water (Switzerland)</i> , 2020, 12, 1980.	2.7	4
24	Temporally Variable Stream Width and Surface Area Distributions in a Headwater Catchment. <i>Water Resources Research</i> , 2019, 55, 7166-7181.	4.2	17
25	Global Reconstruction of Naturalized River Flows at 2.94 Million Reaches. <i>Water Resources Research</i> , 2019, 55, 6499-6516.	4.2	175
26	Variations in dissolved greenhouse gases (CO<sub>2</sub>,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 472 T River network overwhelmingly driven by fluvial-wetland connectivity. <i>Biogeosciences</i> , 2019, 16, 3801-3834.	3.3	93
27	Evaluation of Available Global Runoff Datasets Through a River Model in Support of Transboundary Water Management in South and Southeast Asia. <i>Frontiers in Environmental Science</i> , 2019, 7, .	3.3	15
28	MERIT Hydro: A Highâ€Resolution Global Hydrography Map Based on Latest Topography Dataset. <i>Water Resources Research</i> , 2019, 55, 5053-5073.	4.2	396
29	Global Relationships Between River Width, Slope, Catchment Area, Meander Wavelength, Sinuosity, and Discharge. <i>Geophysical Research Letters</i> , 2019, 46, 3252-3262.	4.0	91
30	Near-real-time non-obstructed flood inundation mapping using synthetic aperture radar. <i>Remote Sensing of Environment</i> , 2019, 221, 302-315.	11.0	103
31	AirSWOT InSAR Mapping of Surface Water Elevations and Hydraulic Gradients Across the Yukon Flats Basin, Alaska. <i>Water Resources Research</i> , 2019, 55, 937-953.	4.2	29
32	Similarity of stream width distributions across headwater systems. <i>Nature Communications</i> , 2018, 9, 610.	12.8	64
33	Global Estimates of River Flow Wave Travel Times and Implications for Lowâ€Latency Satellite Data. <i>Geophysical Research Letters</i> , 2018, 45, 7551-7560.	4.0	39
34	Global extent of rivers and streams. <i>Science</i> , 2018, 361, 585-588.	12.6	436
35	AirSWOT measurements of river water surface elevation and slope: Tanana River, AK. <i>Geophysical Research Letters</i> , 2017, 44, 181-189.	4.0	55
36	Estimating Flood Discharges in Reservoir-Regulated River Basins by Integrating Synthetic SWOT Satellite Observations and Hydrologic Modeling. <i>Journal of Hydrologic Engineering - ASCE</i> , 2016, 21, .	1.9	21

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37	Patterns of river width and surface area revealed by the satellite-derived North American River Width data set. <i>Geophysical Research Letters</i> , 2015, 42, 395-402.	4.0	118
38	Quantifying river form variations in the Mississippi Basin using remotely sensed imagery. <i>Hydrology and Earth System Sciences</i> , 2014, 18, 4883-4895.	4.9	18
39	Assessing the potential global extent of SWOT river discharge observations. <i>Journal of Hydrology</i> , 2014, 519, 1516-1525.	5.4	142
40	Lithologic and tectonic controls on bedrock channel form at the northwest Himalayan front. <i>Journal of Geophysical Research F: Earth Surface</i> , 2013, 118, 1806-1825.	2.8	85