Jonathan A Czuba

List of Publications by Year
in descending order

34	1,140	471509 17	434195 31
papers	citations	h-index	g-index

39	39	39	1509
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Velocity Mapping Toolbox (VMT): a processing and visualization suite for movingâ€vessel ADCP measurements. Earth Surface Processes and Landforms, 2013, 38, 1244-1260.	2.5	151
2	Dynamic connectivity in a fluvial network for identifying hotspots of geomorphic change. Water Resources Research, 2015, 51, 1401-1421.	4.2	119
3	River network saturation concept: factors influencing the balance of biogeochemical supply and demand of river networks. Biogeochemistry, 2018, 141, 503-521.	3.5	96
4	Sediment pulse evolution and the role of network structure. Geomorphology, 2017, 277, 17-30.	2.6	95
5	A network-based framework for identifying potential synchronizations and amplifications of sediment delivery in river basins. Water Resources Research, 2014, 50, 3826-3851.	4.2	89
6	The change of nature and the nature of change in agricultural landscapes: Hydrologic regime shifts modulate ecological transitions. Water Resources Research, 2015, 51, 6649-6671.	4.2	76
7	Dynamics of Surfaceâ€Water Connectivity in a Lowâ€Gradient Meandering River Floodplain. Water Resources Research, 2019, 55, 1849-1870.	4.2	76
8	Comparison of fluvial suspended-sediment concentrations and particle-size distributions measured with in-stream laser diffraction and in physical samples. Water Resources Research, 2015, 51, 320-340.	4.2	39
9	Interplay between spatially explicit sediment sourcing, hierarchical riverâ€network structure, and inâ€channel bed material sediment transport and storage dynamics. Journal of Geophysical Research F: Earth Surface, 2017, 122, 1090-1120.	2.8	36
10	Predicting algal blooms: Are we overlooking groundwater?. Science of the Total Environment, 2021, 769, 144442.	8.0	35
11	Postâ€wildfire sediment cascades: A modeling framework linking debris flow generation and networkâ€scale sediment routing. Earth Surface Processes and Landforms, 2019, 44, 2126-2140.	2.5	33
12	Contextualizing Wetlands Within a River Network to Assess Nitrate Removal and Inform Watershed Management. Water Resources Research, 2018, 54, 1312-1337.	4.2	31
13	Integrated assessment modeling reveals near-channel management as cost-effective to improve water quality in agricultural watersheds. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	27
14	Coupling freshwater mussel ecology and river dynamics using a simplified dynamic interaction model. Freshwater Science, 2016, 35, 200-215.	1.8	26
15	A Lagrangian framework for exploring complexities of mixed-size sediment transport in gravel-bedded river networks. Geomorphology, 2018, 321, 146-152.	2.6	26
16	A new methodology for the quantitative visualization of coherent flow structures in alluvial channels using multibeam echoâ€sounding (MBES). Geophysical Research Letters, 2010, 37, .	4.0	23
17	Bed morphology, flow structure, and sediment transport at the outlet of Lake Huron and in the upper St. Clair River. Journal of Great Lakes Research, 2011, 37, 480-493.	1.9	18
18	Spatial Variability in Bankfull Stage and Bank Elevations of Lowland Meandering Rivers: Relation to Rating Curves and Channel Planform Characteristics. Water Resources Research, 2020, 56, e2020WR027477.	4.2	16

#	Article	IF	Citations
19	Comment on â€œClimate and agricultural land use change impacts on streamflow in the upper midwestern United States,â€•by Satish C. Gupta et al.. Water Resources Research, 2016, 52, 7523-7528.	4.2	15
20	An evaluation of the use of a multibeam echo-sounder for observations of suspended sediment. Applied Acoustics, 2017, 126, 81-90.	3.3	12
21	StreamLab Collaboratory: Experiments, data sets, and research synthesis. Water Resources Research, 2013, 49, 1746-1752.	4.2	11
22	Comment on â€œClimate and agricultural land use change impacts on streamflow in the upper midwestern United Statesâ€•by Satish C. Gupta et al.. Water Resources Research, 2016, 52, 7536-7539.	4.2	10
23	Sediment mobility and bed armoring in the St Clair River: insights from hydrodynamic modeling. Earth Surface Processes and Landforms, 2012, 37, 957-970.	2.5	9
24	Sediment Transport Potential in a Hydraulically Connected River and Floodplainâ€Channel System. Water Resources Research, 2021, 57, e2020WR028852.	4.2	8
25	Estimating Floodplain Vegetative Roughness Using Drone-Based Laser Scanning and Structure from Motion Photogrammetry. Remote Sensing, 2021, 13, 2616.	4.0	8
26	NetworkSedimentTransporter: A Landlab component for bed material transport through river networks. Journal of Open Source Software, 2020, 5, 2341.	4.6	8
27	The Power of Environmental Observatories for Advancing Multidisciplinary Research, Outreach, and Decision Support: The Case of the Minnesota River Basin. Water Resources Research, 2019, 55, 3576-3592.	4.2	6
28	Simulated Dynamics of Mixed Versus Uniform Grain Size Sediment Pulses in a Gravelâ€Bedded River. Journal of Geophysical Research F: Earth Surface, 2021, 126, e2021JF006194.	2.8	6
29	Effect of river confinement on depth and spatial extent of bed disturbance affecting salmon redds. Journal of Ecohydraulics, 2018, 3, 4-17.	3.1	4
30	Coupling a land surface model with a hydrodynamic model for regional flood risk assessment due to climate change: Application to the Susquehanna River near Harrisburg, Pennsylvania. Journal of Flood Risk Management, 2022, 15, e12763.	3.3	2
31	Establishment and Persistence of Trees Growing in the Channel of an Intermittent Stream in a Temperate, Karst Environment. Water Resources Research, 2022, 58, .	4.2	2
32	The change of nature and the nature of change in agricultural landscapes: Hydrologic regime shifts modulate ecological transitions. , 2015, 51, 6649.		1
33	StreamLab Collaboratory: Experiments, data sets, and research synthesis. , 2013, 49, 1746.		1
34	Bankfull shear velocity predicts embeddedness and silt cover in gravel streambeds. River Research and Applications, 0, , .	1.7	1