

Andrew C Wilcox

List of Publications by Year in descending order

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Version: 2024-02-01

41
papers

2,632
citations

218677

26
h-index

265206

42
g-index

47
all docs

47
docs citations

47
times ranked

2480
citing authors

#	ARTICLE	IF	CITATIONS
1	The science and practice of river restoration. <i>Water Resources Research</i> , 2015, 51, 5974-5997.	4.2	442
2	The Natural Sediment Regime in Rivers: Broadening the Foundation for Ecosystem Management. <i>BioScience</i> , 2015, 65, 358-371.	4.9	346
3	Dam removal: Listening in. <i>Water Resources Research</i> , 2017, 53, 5229-5246.	4.2	166
4	Ecosystem effects of environmental flows: modelling and experimental floods in a dryland river. <i>Freshwater Biology</i> , 2010, 55, 68-85.	2.4	162
5	Hydraulics, morphology, and energy dissipation in an alpine step-pool channel. <i>Water Resources Research</i> , 2011, 47, .	4.2	96
6	Conceptualizing Ecological Responses to Dam Removal: If You Remove It, What's to Come?. <i>BioScience</i> , 2019, 69, 26-39.	4.9	96
7	Field measurements of three-dimensional hydraulics in a step-pool channel. <i>Geomorphology</i> , 2007, 83, 215-231.	2.6	92
8	An integrated analysis of the March 2015 Atacama floods. <i>Geophysical Research Letters</i> , 2016, 43, 8035-8043.	4.0	83
9	Rapid reservoir erosion, hyperconcentrated flow, and downstream deposition triggered by breaching of 38 m tall Condit Dam, White Salmon River, Washington. <i>Journal of Geophysical Research F: Earth Surface</i> , 2014, 119, 1376-1394.	2.8	76
10	Synthesis of Common Management Concerns Associated with Dam Removal. <i>Journal of the American Water Resources Association</i> , 2016, 52, 1179-1206.	2.4	75
11	Flow resistance dynamics in step-pool channels: 2. Partitioning between grain, spill, and woody debris resistance. <i>Water Resources Research</i> , 2006, 42, .	4.2	73
12	When do plants modify fluvial processes? Plant-hydraulic interactions under variable flow and sediment supply rates. <i>Journal of Geophysical Research F: Earth Surface</i> , 2015, 120, 325-345.	2.8	64
13	Flow and scour constraints on uprooting of pioneer woody seedlings. <i>Water Resources Research</i> , 2015, 51, 9190-9206.	4.2	54
14	Combining historical and process perspectives to infer ranges of geomorphic variability and inform river restoration in a wandering gravel-bed river. <i>Earth Surface Processes and Landforms</i> , 2012, 37, 1302-1312.	2.5	52
15	FINE SEDIMENT INFILTRATION DYNAMICS IN A GRAVEL-BED RIVER FOLLOWING A SEDIMENT PULSE. <i>River Research and Applications</i> , 2014, 30, 372-384.	1.7	52
16	Flow resistance dynamics in step-pool stream channels: 1. Large woody debris and controls on total resistance. <i>Water Resources Research</i> , 2006, 42, .	4.2	50
17	Ecogeomorphic feedbacks and flood loss of riparian tree seedlings in meandering channel experiments. <i>Water Resources Research</i> , 2014, 50, 9366-9384.	4.2	50
18	Coupled hydrogeomorphic and woody seedling responses to controlled flood releases in a dryland river. <i>Water Resources Research</i> , 2013, 49, 2843-2860.	4.2	48

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19	Effects of vegetation disturbance by fire on channel initiation thresholds. <i>Geomorphology</i> , 2014, 214, 84-96.	2.6	43
20	Applying Functional Traits to Ecogeomorphic Processes in Riparian Ecosystems. <i>BioScience</i> , 2017, 67, 729-743.	4.9	43
21	Coarse bedload routing and dispersion through tributary confluences. <i>Earth Surface Dynamics</i> , 2016, 4, 591-605.	2.4	38
22	Fluvial sediment supply and pioneer woody seedlings as a control on bar surface topography. <i>Earth Surface Processes and Landforms</i> , 2017, 42, 724-734.	2.5	37
23	The long-term legacy of geomorphic and riparian vegetation feedbacks on the dammed Bill Williams River, Arizona, USA. <i>Ecohydrology</i> , 2017, 10, e1839.	2.4	36
24	The influence of a vegetated bar on channel-bend flow dynamics. <i>Earth Surface Dynamics</i> , 2018, 6, 487-503.	2.4	35
25	Multiscale influence of woody riparian vegetation on fluvial topography quantified with ground-based and airborne lidar. <i>Journal of Geophysical Research F: Earth Surface</i> , 2017, 122, 1218-1235.	2.8	34
26	Hydraulic and geomorphic effects on mayfly drift in high-gradient streams at moderate discharges. <i>Ecohydrology</i> , 2008, 1, 176-186.	2.4	33
27	Characterizing disturbance regimes of mountain streams. <i>Freshwater Science</i> , 2014, 33, 716-730.	1.8	33
28	Sediment Routing and Floodplain Exchange (SeRFE): A Spatially Explicit Model of Sediment Balance and Connectivity Through River Networks. <i>Journal of Advances in Modeling Earth Systems</i> , 2020, 12, e2020MS002048.	3.8	22
29	Riparian Vegetation and Sediment Supply Regulate the Morphodynamic Response of an Experimental Stream to Floods. <i>Frontiers in Environmental Science</i> , 2019, 7, .	3.3	18
30	Ecogeomorphic feedbacks in regrowth of travertine step-pool morphology after dam decommissioning, Fossil Creek, Arizona. <i>Geomorphology</i> , 2011, 126, 314-332.	2.6	17
31	Multiscale hydrogeomorphic influences on bull trout (<i>Salvelinus confluentus</i>) spawning habitat. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2015, 72, 514-526.	1.4	17
32	Development of an eco-geomorphic modeling framework to evaluate riparian ecosystem response to flow-regime changes. <i>Ecological Engineering</i> , 2018, 123, 112-126.	3.6	17
33	Large wood and sediment storage in a mixed bedrock-alluvial stream, western Montana, USA. <i>Geomorphology</i> , 2021, 384, 107703.	2.6	11
34	Evaluation of the integrated riparian ecosystem response to future flow regimes on semiarid rivers in Colorado, USA. <i>Journal of Environmental Management</i> , 2020, 271, 111037.	7.8	10
35	Impacts of Dams on Flow Regimes in Three Headwater Subbasins of the Columbia River Basin, United States ¹ . <i>Journal of the American Water Resources Association</i> , 2012, 48, 925-938.	2.4	9
36	Developing leaders to tackle wicked problems at the nexus of food, energy, and water systems. <i>Elementa</i> , 2020, 8, .	3.2	8

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37	Influences of vegetation disturbance on hydrogeomorphic response following wildfire. <i>Hydrological Processes</i> , 2016, 30, 1131-1148.	2.6	7
38	Can environmental flows moderate riparian invasions? The influence of seedling morphology and density on scour losses in experimental floods. <i>Freshwater Biology</i> , 2019, 64, 474-484.	2.4	7
39	A Green New Balance: Interactions among riparian vegetation plant traits and morphodynamics in alluvial rivers. <i>Earth Surface Processes and Landforms</i> , 2022, 47, 2410-2436.	2.5	7
40	An Ecogeomorphic Framework Coupling Sediment Modeling With Invasive Riparian Vegetation Dynamics. <i>Journal of Geophysical Research F: Earth Surface</i> , 2021, 126, e2021JF006071.	2.8	3
41	Capturing the complexity of soil evolution: Heterogeneities in rock cover and chemical weathering in Montana's Rocky Mountains. <i>Geomorphology</i> , 2022, 404, 108186.	2.6	1