

Brian P Bledsoe

List of Publications by Year in descending order

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65
papers

4,492
citations

172207

29
h-index

114278

63
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all docs

67
docs citations

67
times ranked

4364
citing authors

#	ARTICLE	IF	CITATIONS
1	The ecological limits of hydrologic alteration (ELOHA): a new framework for developing regional environmental flow standards. <i>Freshwater Biology</i> , 2010, 55, 147-170.	1.2	1,227
2	The Natural Sediment Regime in Rivers: Broadening the Foundation for Ecosystem Management. <i>BioScience</i> , 2015, 65, 358-371.	2.2	346
3	Hydrologic variation with land use across the contiguous United States: Geomorphic and ecological consequences for stream ecosystems. <i>Geomorphology</i> , 2006, 79, 264-285.	1.1	335
4	Stream restoration strategies for reducing river nitrogen loads. <i>Frontiers in Ecology and the Environment</i> , 2008, 6, 529-538.	1.9	251
5	EFFECTS OF URBANIZATION ON CHANNEL INSTABILITY. <i>Journal of the American Water Resources Association</i> , 2001, 37, 255-270.	1.0	204
6	Predicting streamflow regime metrics for ungauged streams in Colorado, Washington, and Oregon. <i>Journal of Hydrology</i> , 2006, 325, 241-261.	2.3	131
7	Logistic analysis of channel pattern thresholds: meandering, braiding, and incising. <i>Geomorphology</i> , 2001, 38, 281-300.	1.1	112
8	How do flow peaks and durations change in suburbanizing semi-arid watersheds? A southern California case study. <i>Journal of Hydrology</i> , 2011, 405, 69-82.	2.3	107
9	Are Best-Management-Practice Criteria Really Environmentally Friendly?. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2001, 127, 150-154.	1.3	103
10	Developing linkages between species traits and multiscaled environmental variation to explore vulnerability of stream benthic communities to climate change. <i>Journal of the North American Benthological Society</i> , 2010, 29, 1441-1458.	3.0	98
11	Channel Evolution Model of Semiarid Stream Response to Urban-Induced Hydromodification. <i>Journal of the American Water Resources Association</i> , 2012, 48, 722-744.	1.0	90
12	Management of Large Wood in Streams: An Overview and Proposed Framework for Hazard Evaluation. <i>Journal of the American Water Resources Association</i> , 2016, 52, 315-335.	1.0	84
13	WIDTH OF STREAMS AND RIVERS IN RESPONSE TO VEGETATION, BANK MATERIAL, AND OTHER FACTORS. <i>Journal of the American Water Resources Association</i> , 2004, 40, 1159-1172.	1.0	80
14	Stream power framework for predicting geomorphic change: The 2013 Colorado Front Range flood. <i>Geomorphology</i> , 2017, 292, 178-192.	1.1	69
15	Vegetation along hydrologic and edaphic gradients in a North Carolina coastal plain creek bottom and implications for restoration. <i>Wetlands</i> , 2000, 20, 126-147.	0.7	65
16	Effects of Urbanization on Flow Duration and Stream Flashiness: A Case Study of Puget Sound Streams, Western Washington, USA. <i>Journal of the American Water Resources Association</i> , 2017, 53, 493-507.	1.0	58
17	QUANTIFICATION OF INCISED CHANNEL EVOLUTION AND EQUILIBRIUM. <i>Journal of the American Water Resources Association</i> , 2002, 38, 861-870.	1.0	56
18	Controls on spatial variations in flow resistance along steep mountain streams. <i>Water Resources Research</i> , 2010, 46, .	1.7	56

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19	Controls on atâ€œstation hydraulic geometry in steep headwater streams, Colorado, USA. <i>Earth Surface Processes and Landforms</i> , 2010, 35, 1820-1837.	1.2	55
20	Challenges to realizing the potential of nature-based solutions. <i>Current Opinion in Environmental Sustainability</i> , 2020, 45, 49-55.	3.1	55
21	Stream nitrate uptake and transient storage over a gradient of geomorphic complexity, northâ€œcentral Colorado, USA. <i>Hydrological Processes</i> , 2012, 26, 3241-3252.	1.1	52
22	Stream Erosion Potential and Stormwater Management Strategies. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2002, 128, 451-455.	1.3	51
23	Incorporating ecological knowledge into ecoinformatics: An example of modeling hierarchically structured aquatic communities with neural networks. <i>Ecological Informatics</i> , 2006, 1, 33-42.	2.3	48
24	Benchmarking sustainability of urban water infrastructure systems in China. <i>Journal of Cleaner Production</i> , 2018, 170, 330-338.	4.6	45
25	Range of variability of channel complexity in urban, restored and forested reference streams. <i>Freshwater Biology</i> , 2012, 57, 1076-1095.	1.2	42
26	What role does stream restoration play in nutrient management?. <i>Critical Reviews in Environmental Science and Technology</i> , 2017, 47, 335-371.	6.6	40
27	Physical context for theoretical approaches to sediment transport magnitudeâ€œfrequency analysis in alluvial channels. <i>Water Resources Research</i> , 2014, 50, 7900-7914.	1.7	38
28	Framework and Tool for Rapid Assessment of Stream Susceptibility to Hydromodification¹. <i>Journal of the American Water Resources Association</i> , 2012, 48, 788-808.	1.0	37
29	Shifting currents: Managing freshwater systems for ecological resilience in a changing climate. <i>Water Security</i> , 2019, 8, 100049.	1.2	34
30	Using NDVI to measure precipitation in semi-arid landscapes. <i>Journal of Arid Environments</i> , 2016, 131, 15-24.	1.2	31
31	USE OF INCISED CHANNEL EVOLUTION MODELS IN UNDERSTANDING REHABILITATION ALTERNATIVES. <i>Journal of the American Water Resources Association</i> , 2002, 38, 151-160.	1.0	30
32	Longitudinal variability of geomorphic response to floods. <i>Earth Surface Processes and Landforms</i> , 2018, 43, 3099-3113.	1.2	30
33	Representing the bed roughness of coarse-grained streams in computational fluid dynamics. <i>Earth Surface Processes and Landforms</i> , 2006, 31, 736-749.	1.2	29
34	Cumulative Effects of Low Impact Development on Watershed Hydrology in a Mixed Land-Cover System. <i>Water (Switzerland)</i> , 2018, 10, 991.	1.2	28
35	Parsimonious sediment transport equations based on Bagnold's stream power approach. <i>Earth Surface Processes and Landforms</i> , 2018, 43, 242-258.	1.2	26
36	Designing flows to enhance ecosystem functioning in heavily altered rivers. <i>Ecological Applications</i> , 2020, 30, e02005.	1.8	26

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37	Comparative analysis of bed resistance partitioning in high-gradient streams. <i>Water Resources Research</i> , 2011, 47, .	1.7	24
38	Application of regional flow-ecology relationships to inform watershed management decisions: Application of the ELOHA framework in the San Diego River watershed, California, USA. <i>Ecohydrology</i> , 2017, 10, e1869.	1.1	24
39	Tools for managing hydrologic alteration on a regional scale: Setting targets to protect stream health. <i>Freshwater Biology</i> , 2018, 63, 786-803.	1.2	24
40	The impacts of ski slope development on stream channel morphology in the White River National Forest, Colorado, USA. <i>Geomorphology</i> , 2009, 103, 375-388.	1.1	23
41	Tools for managing hydrologic alteration on a regional scale: Estimating changes in flow characteristics at ungauged sites. <i>Freshwater Biology</i> , 2018, 63, 769-785.	1.2	21
42	Probabilistic mapping of flood hazards: Depicting uncertainty in streamflow, land use, and geomorphic adjustment. <i>Anthropocene</i> , 2020, 29, 100231.	1.6	21
43	Spatial characterization of roughness elements in high-gradient channels of the Fraser Experimental Forest, Colorado, USA. <i>Water Resources Research</i> , 2014, 50, 6015-6029.	1.7	18
44	GeoTools: A Toolkit for Fluvial System Analysis. <i>Journal of the American Water Resources Association</i> , 2007, 43, 757-772.	1.0	17
45	A network scale, intermediate complexity model for simulating channel evolution over years to decades. <i>Journal of Hydrology</i> , 2018, 566, 886-900.	2.3	16
46	Influences of sudden changes in discharge and physical stream characteristics on transient storage and nitrate uptake in an urban stream. <i>Hydrological Processes</i> , 2015, 29, 1466-1479.	1.1	13
47	Targeted hydrologic model calibration to improve prediction of ecologically-relevant flow metrics. <i>Journal of Hydrology</i> , 2019, 573, 546-556.	2.3	12
48	Low-Flow Trends at Southeast United States Streamflow Gauges. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2020, 146, .	1.3	12
49	Uncertainty and sensitivity in a bank stability model: implications for estimating phosphorus loading. <i>Earth Surface Processes and Landforms</i> , 2017, 42, 612-623.	1.2	11
50	Assessing hydrologic and water quality effects of land use conversion to <i>Brassica carinata</i> as a winter biofuel crop in the southeastern coastal plain of Georgia, USA using the SWAT model. <i>GCB Bioenergy</i> , 2021, 13, 473-492.	2.5	10
51	Quantifying pollutant loading from channel sources: Watershed-scale application of the River Erosion Model. <i>Journal of Environmental Management</i> , 2019, 234, 104-114.	3.8	9
52	Integrating stormwater management and stream restoration strategies for greater water quality benefits. <i>Journal of Environmental Quality</i> , 2020, 49, 569-581.	1.0	9
53	Characterizing hydroclimatic variability in tributaries of the Upper Colorado River Basin-WY1911-2001. <i>Journal of Hydrology</i> , 2010, 380, 260-276.	2.3	8
54	An ecohydrological stream type classification of intermittent and ephemeral streams in the southwestern United States. <i>Journal of Arid Environments</i> , 2018, 155, 16-35.	1.2	8

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55	Full Spectrum Analytical Channel Design with the Capacity/Supply Ratio (CSR). <i>Water (Switzerland)</i> , 2017, 9, 271.	1.2	7
56	From hubris to humility: Transcending original sin in managing hydroclimatic risk. <i>Anthropocene</i> , 2020, 30, 100239.	1.6	7
57	Infrastructure investment must incorporate Nature's lessons in a rapidly changing world. <i>One Earth</i> , 2021, 4, 1361-1364.	3.6	7
58	The effect of flow data resolution on sediment yield estimation and channel design. <i>Journal of Hydrology</i> , 2016, 538, 429-439.	2.3	5
59	Frontiers in assessing septic systems vulnerability in coastal Georgia, USA: Modeling approach and management implications. <i>PLoS ONE</i> , 2021, 16, e0256606.	1.1	5
60	Eco-hydraulic Evaluation of a Whitewater Park as a Fish Passage Barrier. <i>Journal of the American Water Resources Association</i> , 2016, 52, 420-442.	1.0	4
61	Effects of Design and Climate on Bioretention Effectiveness for Watershed-Scale Hydrologic Benefits. <i>Journal of Sustainable Water in the Built Environment</i> , 2022, 8, .	0.9	4
62	Simplified Uncertainty Bounding: An Approach for Estimating Flood Hazard Uncertainty. <i>Water (Switzerland)</i> , 2022, 14, 1618.	1.2	2
63	Scale-Dependent Effects of Bank Vegetation on Channel Processes: Field Data, Computational Fluid Dynamics Modeling, and Restoration Design. <i>Geophysical Monograph Series</i> , 2013, , 151-165.	0.1	1
64	Stream Restoration as a BMP: Development of a National Performance Database and Crediting Guidance. <i>Proceedings of the Water Environment Federation</i> , 2017, 2017, 3551-3558.	0.0	0
65	Urban Floodplains: Changing Climate, Land Use, and River Channels. <i>Regions</i> , 2017, 306, 18-20.	0.1	0