

Andrew J Miller

List of Publications by Year in descending order

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Version: 2024-02-01

42
papers

1,828
citations

304368

22
h-index

276539

41
g-index

43
all docs

43
docs citations

43
times ranked

1674
citing authors

#	ARTICLE	IF	CITATIONS
1	Empirical evaluation of two-dimensional unsteady hydraulic models for applications in floodplain forest ecology. <i>Physical Geography</i> , 2021, 42, 99-125.	0.6	4
2	Assessing urban rainfall-runoff response to stormwater management extent. <i>Hydrological Processes</i> , 2021, 35, e14287.	1.1	9
3	The Chesapeake Bay program modeling system: Overview and recommendations for future development. <i>Ecological Modelling</i> , 2021, 456, 109635.	1.2	30
4	Hydrologic Signals and Surprises in U.S. Streamflow Records During Urbanization. <i>Water Resources Research</i> , 2020, 56, e2019WR027039.	1.7	23
5	Pavement alters delivery of sediment and fallout radionuclides to urban streams. <i>Journal of Hydrology</i> , 2020, 588, 124855.	2.3	10
6	Theoretical Perspectives of the Baltimore Ecosystem Study: Conceptual Evolution in a Social-Ecological Research Project. <i>BioScience</i> , 2020, 70, 297-314.	2.2	20
7	Spatial and temporal patterns of suspended sediment transport in nested urban watersheds. <i>Geomorphology</i> , 2019, 336, 95-106.	1.1	12
8	River-valley morphology, basin size, and flow-event magnitude interact to produce wide variation in flooding dynamics. <i>Ecosphere</i> , 2019, 10, e02546.	1.0	20
9	Impacts of Development Pattern on Urban Groundwater Flow Regime. <i>Water Resources Research</i> , 2018, 54, 5198-5212.	1.7	10
10	Channel response to sediment release: insights from a paired analysis of dam removal. <i>Earth Surface Processes and Landforms</i> , 2017, 42, 1636-1651.	1.2	34
11	Quantifying Spatial Patterns of Channel Geometry and Stream Incision in Urban Drainage Network. <i>Journal of Hydrologic Engineering - ASCE</i> , 2017, 22, 06016017.	0.8	5
12	Use of a Three-Dimensional Reactive Solute Transport Model for Evaluation of Bioreactor Placement in Stream Restoration. <i>Journal of Environmental Quality</i> , 2016, 45, 839-846.	1.0	1
13	Reassessing the role of milldams in Piedmont floodplain development and remobilization. <i>Geomorphology</i> , 2016, 268, 133-145.	1.1	21
14	Coupling of the Water Cycle with Patterns of Urban Growth in the Baltimore Metropolitan Region, United States. <i>Journal of the American Water Resources Association</i> , 2016, 52, 1509-1523.	1.0	12
15	Global Topographic Slope Enforcement to Ensure Connectivity and Drainage in an Urban Terrain. <i>Journal of Hydrologic Engineering - ASCE</i> , 2016, 21, .	0.8	17
16	Exploring storage and runoff generation processes for urban flooding through a physically based watershed model. <i>Water Resources Research</i> , 2015, 51, 1552-1569.	1.7	45
17	Untangling the effects of urban development on subsurface storage in Baltimore. <i>Water Resources Research</i> , 2015, 51, 1158-1181.	1.7	59
18	Sediment contributions from floodplains and legacy sediments to Piedmont streams of Baltimore County, Maryland. <i>Geomorphology</i> , 2015, 235, 88-105.	1.1	54

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19	Tracking geomorphic signatures of watershed suburbanization with multitemporal LiDAR. <i>Geomorphology</i> , 2014, 219, 42-52.	1.1	20
20	Hydrologic Controls on Nitrogen and Phosphorous Dynamics in Relict Oxbow Wetlands Adjacent to an Urban Restored Stream. <i>Journal of the American Water Resources Association</i> , 2014, 50, 1365-1382.	1.0	23
21	Numerical Modeling of Stage-Discharge Relationships in Urban Streams. <i>Journal of Hydrologic Engineering - ASCE</i> , 2012, 17, 590-596.	0.8	11
22	Analyses of a long-term, high-resolution radar rainfall data set for the Baltimore metropolitan region. <i>Water Resources Research</i> , 2012, 48, .	1.7	69
23	Urbanization, climate change and flood policy in the United States. <i>Climatic Change</i> , 2010, 103, 597-616.	1.7	127
24	Analyses of Urban Drainage Network Structure and its Impact on Hydrologic Response ¹ . <i>Journal of the American Water Resources Association</i> , 2010, 46, 932-943.	1.0	108
25	Heterogeneity of Hydrologic Response in Urban Watersheds ¹ . <i>Journal of the American Water Resources Association</i> , 2010, 46, 1221-1237.	1.0	37
26	Contribution of In-Channel Processes to Sediment Yield of an Urbanizing Watershed ¹ . <i>Journal of the American Water Resources Association</i> , 2009, 45, 748-766.	1.0	14
27	Extreme hydrometeorological events and the urban environment: Dissecting the 7 July 2004 thunderstorm over the Baltimore MD Metropolitan Region. <i>Water Resources Research</i> , 2008, 44, .	1.7	70
28	Flash Flood Forecasting for Small Urban Watersheds in the Baltimore Metropolitan Region. <i>Weather and Forecasting</i> , 2007, 22, 1331-1344.	0.5	32
29	Radar rainfall estimation for flash flood forecasting in small urban watersheds. <i>Advances in Water Resources</i> , 2007, 30, 2087-2097.	1.7	96
30	Evolution of channel morphology and hydrologic response in an urbanizing drainage basin. <i>Earth Surface Processes and Landforms</i> , 2006, 31, 1063-1079.	1.2	83
31	Extraordinary Flood Response of a Small Urban Watershed to Short-Duration Convective Rainfall. <i>Journal of Hydrometeorology</i> , 2005, 6, 599-617.	0.7	80
32	Field studies of the storm event hydrologic response in an urbanizing watershed. <i>Water Resources Research</i> , 2005, 41, .	1.7	107
33	Catastrophic flooding from an orographic thunderstorm in the central Appalachians. <i>Water Resources Research</i> , 2005, 41, .	1.7	33
34	Canyons with undulating walls. <i>Bulletin of the Geological Society of America</i> , 1999, 111, 949-959.	1.6	64
35	Modeling considerations for simulation of flow in bedrock channels. <i>Geophysical Monograph Series</i> , 1998, , 61-104.	0.1	29
36	Catastrophic rainfall from an upslope thunderstorm in the central Appalachians: The Rapidan Storm of June 27, 1995. <i>Water Resources Research</i> , 1996, 32, 3099-3113.	1.7	134

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37	Valley morphology and boundary conditions influencing spatial patterns of flood flow. Geophysical Monograph Series, 1995, , 57-81.	0.1	52
38	Debris-fan constrictions and flood hydraulics in river canyons: Some implications from two-dimensional flow modelling. Earth Surface Processes and Landforms, 1994, 19, 681-697.	1.2	33
39	Fluvial response to debris associated with mass wasting during extreme floods. Geology, 1990, 18, 599.	2.0	14
40	Flood hydrology and geomorphic effectiveness in the central Appalachians. Earth Surface Processes and Landforms, 1990, 15, 119-134.	1.2	166
41	The role of catastrophic geomorphic events in central Appalachian landscape evolution. Geomorphology, 1989, 2, 257-284.	1.1	36
42	Ephemeral Stream Network Extraction from Lidarâ€Derived Elevation and Topographic Attributes in Urban and Forested Landscapes. Journal of the American Water Resources Association, 0, , .	1.0	3