

Andrew J Miller

List of Publications by Year in descending order

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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	Flood hydrology and geomorphic effectiveness in the central Appalachians. <i>Earth Surface Processes and Landforms</i> , 1990, 15, 119-134.	1.2	166
2	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
3	Urbanization, climate change and flood policy in the United States. <i>Climatic Change</i> , 2010, 103, 597-616.	1.7	127
4	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
5	Field studies of the storm event hydrologic response in an urbanizing watershed. <i>Water Resources Research</i> , 2005, 41, .	1.7	107
6	Radar rainfall estimation for flash flood forecasting in small urban watersheds. <i>Advances in Water Resources</i> , 2007, 30, 2087-2097.	1.7	96
7	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
8	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
9	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
10	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
11	Canyons with undulating walls. <i>Bulletin of the Geological Society of America</i> , 1999, 111, 949-959.	1.6	64
12	Untangling the effects of urban development on subsurface storage in Baltimore. <i>Water Resources Research</i> , 2015, 51, 1158-1181.	1.7	59
13	Sediment contributions from floodplains and legacy sediments to Piedmont streams of Baltimore County, Maryland. <i>Geomorphology</i> , 2015, 235, 88-105.	1.1	54
14	Valley morphology and boundary conditions influencing spatial patterns of flood flow. <i>Geophysical Monograph Series</i> , 1995, , 57-81.	0.1	52
15	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
16	Heterogeneity of Hydrologic Response in Urban Watersheds ¹ . <i>Journal of the American Water Resources Association</i> , 2010, 46, 1221-1237.	1.0	37
17	The role of catastrophic geomorphic events in central Appalachian landscape evolution. <i>Geomorphology</i> , 1989, 2, 257-284.	1.1	36
18	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

#	ARTICLE	IF	CITATIONS
19	Debris-fan constrictions and flood hydraulics in river canyons: Some implications from two-dimensional flow modelling. <i>Earth Surface Processes and Landforms</i> , 1994, 19, 681-697.	1.2	33
20	Catastrophic flooding from an orographic thunderstorm in the central Appalachians. <i>Water Resources Research</i> , 2005, 41, .	1.7	33
21	Flash Flood Forecasting for Small Urban Watersheds in the Baltimore Metropolitan Region. <i>Weather and Forecasting</i> , 2007, 22, 1331-1344.	0.5	32
22	The Chesapeake Bay program modeling system: Overview and recommendations for future development. <i>Ecological Modelling</i> , 2021, 456, 109635.	1.2	30
23	Modeling considerations for simulation of flow in bedrock channels. <i>Geophysical Monograph Series</i> , 1998, , 61-104.	0.1	29
24	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
25	Hydrologic Signals and Surprises in U.S. Streamflow Records During Urbanization. <i>Water Resources Research</i> , 2020, 56, e2019WR027039.	1.7	23
26	Reassessing the role of milldams in Piedmont floodplain development and remobilization. <i>Geomorphology</i> , 2016, 268, 133-145.	1.1	21
27	Tracking geomorphic signatures of watershed suburbanization with multitemporal LiDAR. <i>Geomorphology</i> , 2014, 219, 42-52.	1.1	20
28	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
29	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
30	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
31	Fluvial response to debris associated with mass wasting during extreme floods. <i>Geology</i> , 1990, 18, 599.	2.0	14
32	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
33	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
34	Spatial and temporal patterns of suspended sediment transport in nested urban watersheds. <i>Geomorphology</i> , 2019, 336, 95-106.	1.1	12
35	Numerical Modeling of Stage-Discharge Relationships in Urban Streams. <i>Journal of Hydrologic Engineering - ASCE</i> , 2012, 17, 590-596.	0.8	11
36	Impacts of Development Pattern on Urban Groundwater Flow Regime. <i>Water Resources Research</i> , 2018, 54, 5198-5212.	1.7	10

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37	Pavement alters delivery of sediment and fallout radionuclides to urban streams. <i>Journal of Hydrology</i> , 2020, 588, 124855.	2.3	10
38	Assessing urban rainfall-runoff response to stormwater management extent. <i>Hydrological Processes</i> , 2021, 35, e14287.	1.1	9
39	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
40	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
41	Ephemeral Stream Network Extraction from Lidar-Derived Elevation and Topographic Attributes in Urban and Forested Landscapes. <i>Journal of the American Water Resources Association</i> , 0, , .	1.0	3
42	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