

# Benjamin B Mirus

## List of Publications by Year in descending order

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Version: 2024-02-01

43  
papers

1,715  
citations

257450

24  
h-index

289244

40  
g-index

58  
all docs

58  
docs citations

58  
times ranked

1976  
citing authors

#	ARTICLE	IF	CITATIONS
1	An overview of current applications, challenges, and future trends in distributed process-based models in hydrology. <i>Journal of Hydrology</i> , 2016, 537, 45-60.	5.4	349
2	First-order exchange coefficient coupling for simulating surface water-groundwater interactions: parameter sensitivity and consistency with a physics-based approach. <i>Hydrological Processes</i> , 2009, 23, 1949-1959.	2.6	96
3	How runoff begins (and ends): Characterizing hydrologic response at the catchment scale. <i>Water Resources Research</i> , 2013, 49, 2987-3006.	4.2	82
4	Integrating real-time subsurface hydrologic monitoring with empirical rainfall thresholds to improve landslide early warning. <i>Landslides</i> , 2018, 15, 1909-1919.	5.4	78
5	Simulated effect of a forest road on near-surface hydrologic response: redux. <i>Earth Surface Processes and Landforms</i> , 2007, 32, 126-142.	2.5	65
6	Physics-based hydrologic-response simulation: foundation for hydroecology and hydrogeomorphology. <i>Hydrological Processes</i> , 2006, 20, 1231-1237.	2.6	64
7	Developing Hydro-Meteorological Thresholds for Shallow Landslide Initiation and Early Warning. <i>Water (Switzerland)</i> , 2018, 10, 1274.	2.7	63
8	Elucidating the role of vegetation in the initiation of rainfall-induced shallow landslides: Insights from an extreme rainfall event in the Colorado Front Range. <i>Geophysical Research Letters</i> , 2016, 43, 9084-9092.	4.0	62
9	Disturbance hydrology: challenges and opportunities. <i>Hydrological Processes</i> , 2014, 28, 5140-5148.	2.6	57
10	Landslides across the USA: occurrence, susceptibility, and data limitations. <i>Landslides</i> , 2020, 17, 2271-2285.	5.4	55
11	Identifying Physics-Based Thresholds for Rainfall-Induced Landsliding. <i>Geophysical Research Letters</i> , 2018, 45, 9651-9661.	4.0	44
12	Assessing the Feasibility of Satellite-Based Thresholds for Hydrologically Driven Landsliding. <i>Water Resources Research</i> , 2019, 55, 9006-9023.	4.2	44
13	Assessing the detail needed to capture rainfall-runoff dynamics with physics-based hydrologic response simulation. <i>Water Resources Research</i> , 2011, 47, .	4.2	42
14	Identifying long-term empirical relationships between storm characteristics and episodic groundwater recharge. <i>Water Resources Research</i> , 2016, 52, 21-35.	4.2	40
15	Effect of Hydraulic Hysteresis on Stability of Infinite Slopes under Steady Infiltration. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2017, 143, .	3.0	40
16	Incorporating spatially heterogeneous infiltration capacity into hydrologic models with applications for simulating post-wildfire debris flow initiation. <i>Hydrological Processes</i> , 2018, 32, 1173-1187.	2.6	38
17	Evaluating the importance of characterizing soil structure and horizons in parameterizing a hydrologic process model. <i>Hydrological Processes</i> , 2015, 29, 4611-4623.	2.6	37
18	Disturbance Hydrology: Preparing for an Increasingly Disturbed Future. <i>Water Resources Research</i> , 2017, 53, 10007-10016.	4.2	33

#	ARTICLE	IF	CITATIONS
19	Physically Based Estimation of Rainfall Thresholds Triggering Shallow Landslides in Volcanic Slopes of Southern Italy. <i>Water (Switzerland)</i> , 2019, 11, 1915.	2.7	33
20	Using simulated hydrologic response to revisit the 1973 Lerida Court landslide. <i>Environmental Earth Sciences</i> , 2010, 61, 1249-1257.	2.7	28
21	A hypothetical reality of Tarrawarra-like hydrologic response. <i>Hydrological Processes</i> , 2009, 23, 1093-1103.	2.6	27
22	Hydrologic Impacts of Landslide Disturbances: Implications for Remobilization and Hazard Persistence. <i>Water Resources Research</i> , 2017, 53, 8250-8265.	4.2	26
23	Balancing practicality and hydrologic realism: A parsimonious approach for simulating rapid groundwater recharge via unsaturated-zone preferential flow. <i>Water Resources Research</i> , 2013, 49, 1458-1465.	4.2	25
24	The future of landslides—a past—a framework for assessing consecutive landsliding systems. <i>Landslides</i> , 2020, 17, 1519-1528.	5.4	25
25	Variability in soil-water retention properties and implications for physics-based simulation of landslide early warning criteria. <i>Landslides</i> , 2018, 15, 1265-1277.	5.4	23
26	Hydrologic Characterization of Desert Soils with Varying Degrees of Pedogenesis: 2. Inverse Modeling for Effective Properties. <i>Vadose Zone Journal</i> , 2009, 8, 496-509.	2.2	23
27	Clays Are Not Created Equal: How Clay Mineral Type Affects Soil Parameterization. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL095311.	4.0	21
28	Incorporating the Effects of Complex Soil Layering and Thickness Local Variability into Distributed Landslide Susceptibility Assessments. <i>Water (Switzerland)</i> , 2021, 13, 713.	2.7	18
29	Deep Learning as a Tool to Forecast Hydrologic Response for Landslide-Prone Hillslopes. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL088731.	4.0	17
30	Rapid-Response Unsaturated Zone Hydrology: Small-Scale Data, Small-Scale Theory, Big Problems. <i>Frontiers in Earth Science</i> , 2021, 9, .	1.8	16
31	A synthetic hydrologic response dataset. <i>Hydrological Processes</i> , 2011, 25, 3688-3692.	2.6	15
32	The Galápagos archipelago: a natural laboratory to examine sharp hydroclimatic, geologic and anthropogenic gradients. <i>Wiley Interdisciplinary Reviews: Water</i> , 2016, 3, 587-600.	6.5	14
33	Hillslopes in humid-tropical climates aren't always wet: Implications for hydrologic response and landslide initiation in Puerto Rico. <i>Hydrological Processes</i> , 2020, 34, 4307-4318.	2.6	14
34	Effects of Infiltration Characteristics on Spatial-Temporal Evolution of Stability of an Interstate Highway Embankment. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2019, 145, 05019008.	3.0	11
35	HydroMet: A New Code for Automated Objective Optimization of Hydrometeorological Thresholds for Landslide Initiation. <i>Water (Switzerland)</i> , 2021, 13, 1752.	2.7	10
36	Preferential flow, diffuse flow, and perching in an interbedded fractured-rock unsaturated zone. <i>Hydrogeology Journal</i> , 2017, 25, 421-444.	2.1	9

#	ARTICLE	IF	CITATIONS
37	Numerical Analysis of the Effect of Subgrid Variability in a Physically Based Hydrological Model on Runoff, Soil Moisture, and Slope Stability. <i>Water Resources Research</i> , 2021, 57, e2020WR027326.	4.2	6
38	Evaluation of techniques for mitigating snowmelt infiltration-induced landsliding in a highway embankment. <i>Engineering Geology</i> , 2021, 291, 106240.	6.3	6
39	Testing the suitability of geologic frameworks for extrapolating hydraulic properties across regional scales. <i>Hydrogeology Journal</i> , 2016, 24, 1133-1146.	2.1	5
40	Constructing a Large-Scale Landslide Database Across Heterogeneous Environments Using Task-Specific Model Updates. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2022, 15, 4349-4370.	4.9	5
41	Practical estimates of field-saturated hydraulic conductivity of bedrock outcrops using a modified bottomless bucket method. <i>Water Resources Research</i> , 2012, 48, .	4.2	3
42	Temporal and spatial variability of shallow soil moisture across four planar hillslopes on a tropical ocean island, San Cristóbal, Galápagos. <i>Journal of Hydrology: Regional Studies</i> , 2020, 30, 100692.	2.4	2
43	Subsurface and Surface Flow Leading to Channel Initiation. , 2021, , .		0