# Benjamin B Mirus

List of Publications by Year
in descending order



| 43 | 1,715 | 257450 24 | 289244 40 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 58 | 58 | 58 | 1976 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Constructing a Large-Scale Landslide Database Across Heterogeneous Environments Using Task-Specific Model Updates. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2022, 15, 4349-4370. | 4.9 | 5 |
| 2 | Subsurface and Surface Flow Leading to Channel Initiation. , 2021, , . | | 0 |
| 3 | Rapid-Response Unsaturated Zone Hydrology: Small-Scale Data, Small-Scale Theory, Big Problems. Frontiers in Earth Science, 2021, 9, . | 1.8 | 16 |
| 4 | Incorporating the Effects of Complex Soil Layering and Thickness Local Variability into Distributed Landslide Susceptibility Assessments. Water (Switzerland), 2021, 13, 713. | 2.7 | 18 |
| 5 | Numerical Analysis of the Effect of Subgrid Variability in a Physically Based Hydrological Model on Runoff, Soil Moisture, and Slope Stability. Water Resources Research, 2021, 57, e2020WR027326. | 4.2 | 6 |
| 6 | HydroMet: A New Code for Automated Objective Optimization of Hydrometeorological Thresholds for Landslide Initiation. Water (Switzerland), 2021, 13, 1752. | 2.7 | 10 |
| 7 | Clays Are Not Created Equal: How Clay Mineral Type Affects Soil Parameterization. Geophysical Research Letters, 2021, 48, e2021GL095311. | 4.0 | 21 |
| 8 | Evaluation of techniques for mitigating snowmelt infiltration-induced landsliding in a highway embankment. Engineering Geology, 2021, 291, 106240. | 6.3 | 6 |
| 9 | Deep Learning as a Tool to Forecast Hydrologic Response for Landslideâ€Prone Hillslopes. Geophysical Research Letters, 2020, 47, e2020GL088731. | 4.0 | 17 |
| 10 | Hillslopes in humidâ€tropical climates aren't always wet: Implications for hydrologic response and landslide initiation in Puerto Rico. Hydrological Processes, 2020, 34, 4307-4318. | 2.6 | 14 |
| 11 | The future of landslidesâ€™ pastâ€”a framework for assessing consecutive landsliding systems. Landslides, 2020, 17, 1519-1528. | 5.4 | 25 |
| 12 | Temporal and spatial variability of shallow soil moisture across four planar hillslopes on a tropical ocean island, San CristÃ³bal, GalÃ¡pagos. Journal of Hydrology: Regional Studies, 2020, 30, 100692. | 2.4 | 2 |
| 13 | Landslides across the USA: occurrence, susceptibility, and data limitations. Landslides, 2020, 17, 2271-2285. | 5.4 | 55 |
| 14 | Effects of Infiltration Characteristics on Spatial-Temporal Evolution of Stability of an Interstate Highway Embankment. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2019, 145, 05019008. | 3.0 | 11 |
| 15 | Assessing the Feasibility of Satelliteâ€Based Thresholds for Hydrologically Driven Landsliding. Water Resources Research, 2019, 55, 9006-9023. | 4.2 | 44 |
| 16 | Physically Based Estimation of Rainfall Thresholds Triggering Shallow Landslides in Volcanic Slopes of Southern Italy. Water (Switzerland), 2019, 11, 1915. | 2.7 | 33 |
| 17 | Incorporating spatially heterogeneous infiltration capacity into hydrologic models with applications for simulating postâ€wildfire debris flow initiation. Hydrological Processes, 2018, 32, 1173-1187. | 2.6 | 38 |
| 18 | Variability in soil-water retention properties and implications for physics-based simulation of landslide early warning criteria. Landslides, 2018, 15, 1265-1277. | 5.4 | 23 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Developing Hydro-Meteorological Thresholds for Shallow Landslide Initiation and Early Warning. Water (Switzerland), 2018, 10, 1274. | 2.7 | 63 |
| 20 | Identifying Physicsâ€Based Thresholds for Rainfallâ€Induced Landsliding. Geophysical Research Letters, 2018, 45, 9651-9661. | 4.0 | 44 |
| 21 | Integrating real-time subsurface hydrologic monitoring with empirical rainfall thresholds to improve landslide early warning. Landslides, 2018, 15, 1909-1919. | 5.4 | 78 |
| 22 | Effect of Hydraulic Hysteresis on Stability of Infinite Slopes under Steady Infiltration. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2017, 143, . | 3.0 | 40 |
| 23 | Preferential flow, diffuse flow, and perching in an interbedded fractured-rock unsaturated zone. Hydrogeology Journal, 2017, 25, 421-444. | 2.1 | 9 |
| 24 | Hydrologic Impacts of Landslide Disturbances: Implications for Remobilization and Hazard Persistence. Water Resources Research, 2017, 53, 8250-8265. | 4.2 | 26 |
| 25 | Disturbance Hydrology: Preparing for an Increasingly Disturbed Future. Water Resources Research, 2017, 53, 10007-10016. | 4.2 | 33 |
| 26 | The GalÃ¡pagos archipelago: a natural laboratory to examine sharp hydroclimatic, geologic and anthropogenic gradients. Wiley Interdisciplinary Reviews: Water, 2016, 3, 587-600. | 6.5 | 14 |
| 27 | Elucidating the role of vegetation in the initiation of rainfallâ€induced shallow landslides: Insights from an extreme rainfall event in the Colorado Front Range. Geophysical Research Letters, 2016, 43, 9084-9092. | 4.0 | 62 |
| 28 | Testing the suitability of geologic frameworks for extrapolating hydraulic properties across regional scales. Hydrogeology Journal, 2016, 24, 1133-1146. | 2.1 | 5 |
| 29 | Identifying longâ€term empirical relationships between storm characteristics and episodic groundwater recharge. Water Resources Research, 2016, 52, 21-35. | 4.2 | 40 |
| 30 | An overview of current applications, challenges, and future trends in distributed process-based models in hydrology. Journal of Hydrology, 2016, 537, 45-60. | 5.4 | 349 |
| 31 | Evaluating the importance of characterizing soil structure and horizons in parameterizing a hydrologic process model. Hydrological Processes, 2015, 29, 4611-4623. | 2.6 | 37 |
| 32 | Disturbance hydrology: challenges and opportunities. Hydrological Processes, 2014, 28, 5140-5148. | 2.6 | 57 |
| 33 | How runoff begins (and ends): Characterizing hydrologic response at the catchment scale. Water Resources Research, 2013, 49, 2987-3006. | 4.2 | 82 |
| 34 | Balancing practicality and hydrologic realism: A parsimonious approach for simulating rapid groundwater recharge via unsaturatedâ€zone preferential flow. Water Resources Research, 2013, 49, 1458-1465. | 4.2 | 25 |
| 35 | Practical estimates of fieldâ€saturated hydraulic conductivity of bedrock outcrops using a modified bottomless bucket method. Water Resources Research, 2012, 48, . | 4.2 | 3 |
| 36 | Assessing the detail needed to capture rainfallâ€runoff dynamics with physicsâ€based hydrologic response simulation. Water Resources Research, 2011, 47, . | 4.2 | 42 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | A synthetic hydrologicâ€response dataset. Hydrological Processes, 2011, 25, 3688-3692. | 2.6 | 15 |
| 38 | Using simulated hydrologic response to revisit the 1973 Lerida Court landslide. Environmental Earth Sciences, 2010, 61, 1249-1257. | 2.7 | 28 |
| 39 | A hypothetical reality of Tarrawarraâ€like hydrologic response. Hydrological Processes, 2009, 23, 1093-1103. | 2.6 | 27 |
| 40 | Firstâ€order exchange coefficient coupling for simulating surface waterâ€“groundwater interactions: parameter sensitivity and consistency with a physicsâ€based approach. Hydrological Processes, 2009, 23, 1949-1959. | 2.6 | 96 |
| 41 | Hydrologic Characterization of Desert Soils with Varying Degrees of Pedogenesis: 2. Inverse Modeling for Effective Properties. Vadose Zone Journal, 2009, 8, 496-509. | 2.2 | 23 |
| 42 | Simulated effect of a forest road on near-surface hydrologic response: redux. Earth Surface Processes and Landforms, 2007, 32, 126-142. | 2.5 | 65 |
| 43 | Physics-based hydrologic-response simulation: foundation for hydroecology and hydrogeomorphology. Hydrological Processes, 2006, 20, 1231-1237. | 2.6 | 64 |