

# Brian J Yanites

## List of Publications by Year in descending order

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Version: 2024-02-01

44  
papers

1,385  
citations

430874

18  
h-index

330143

37  
g-index

48  
all docs

48  
docs citations

48  
times ranked

1685  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Biodiversity and Topographic Complexity: Modern and Geohistorical Perspectives. <i>Trends in Ecology and Evolution</i> , 2017, 32, 211-226.   | 8.7  | 175       |
| 2  | Numerical and analytical models of cosmogenic radionuclide dynamics in landslide-dominated drainage basins. <i>Journal of Geophysical Research</i> , 2009, 114, .   | 3.3  | 137       |
| 3  | How rivers react to large earthquakes: Evidence from central Taiwan. <i>Geology</i> , 2010, 38, 639-642.  | 4.4  | 118       |
| 4  | Controls and limits on bedrock channel geometry. <i>Journal of Geophysical Research</i> , 2010, 115, .  | 3.3  | 112       |
| 5  | Complexities of landscape evolution during incision through layered stratigraphy with contrasts in rock strength. <i>Earth Surface Processes and Landforms</i> , 2016, 41, 1736-1757.   | 2.5  | 102       |
| 6  | Incision and channel morphology across active structures along the Peikang River, central Taiwan: Implications for the importance of channel width. <i>Bulletin of the Geological Society of America</i> , 2010, 122, 1192-1208.  | 3.3  | 93        |
| 7  | The Dynamics of Channel Slope, Width, and Sediment in Actively Eroding Bedrock River Systems. <i>Journal of Geophysical Research F: Earth Surface</i> , 2018, 123, 1504-1527.   | 2.8  | 74        |
| 8  | High magnitude and rapid incision from river capture: Rhine River, Switzerland. <i>Journal of Geophysical Research F: Earth Surface</i> , 2013, 118, 1060-1084.   | 2.8  | 57        |
| 9  | Global climate and tectonic controls on the denudation of glaciated mountains. <i>Earth and Planetary Science Letters</i> , 2012, 325-326, 63-75.   | 4.4  | 55        |
| 10 | Bedrock detection using 2D electrical resistivity imaging along the Peikang River, central Taiwan. <i>Geomorphology</i> , 2010, 114, 406-414.   | 2.6  | 50        |
| 11 | Evolution of the Bonneville shoreline scarp in west-central Utah: Comparison of scarp-analysis methods and implications for the diffusion model of hillslope evolution. <i>Geomorphology</i> , 2006, 74, 257-270.                 | 2.6  | 40        |
| 12 | Lithologic Effects on Landscape Response to Base Level Changes: A Modeling Study in the Context of the Eastern Jura Mountains, Switzerland. <i>Journal of Geophysical Research F: Earth Surface</i> , 2017, 122, 2196-2222.       | 2.8  | 40        |
| 13 | The influence of sediment cover variability on long-term river incision rates: An example from the Peikang River, central Taiwan. <i>Journal of Geophysical Research</i> , 2011, 116, .   | 3.3  | 39        |
| 14 | A climate signal in exhumation patterns revealed by porphyry copper deposits. <i>Nature Geoscience</i> , 2015, 8, 462-465.  | 12.9 | 33        |
| 15 | Quantifying the role of paleoclimate and Andean Plateau uplift on river incision. <i>Journal of Geophysical Research F: Earth Surface</i> , 2013, 118, 852-871.   | 2.8  | 29        |
| 16 | Spatially Variable Increase in Rock Uplift in the Northern U.S. Cordillera Recorded in the Distribution of River Knickpoints and Incision Depths. <i>Journal of Geophysical Research F: Earth Surface</i> , 2019, 124, 1238-1260. | 2.8  | 28        |
| 17 | Vegetation-precipitation controls on Central Andean topography. <i>Journal of Geophysical Research F: Earth Surface</i> , 2014, 119, 1354-1375.   | 2.8  | 26        |
| 18 | Identifying spatial variations in glacial catchment erosion with detrital thermochronology. <i>Journal of Geophysical Research F: Earth Surface</i> , 2015, 120, 1023-1039.   | 2.8  | 26        |

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|----|---|------|-----------|
| 19 | Debris flow deposition and reworking by the Colorado River in Grand Canyon, Arizona. <i>Water Resources Research</i> , 2006, 42, .  | 4.2  | 16        |
| 20 | Sex that moves mountains: The influence of spawning fish on river profiles over geologic timescales. <i>Geomorphology</i> , 2018, 305, 163-172.   | 2.6  | 16        |
| 21 | Intermittent glacial sliding velocities explain variations in long-timescale denudation. <i>Earth and Planetary Science Letters</i> , 2016, 450, 52-61.   | 4.4  | 15        |
| 22 | Landslides control the spatial and temporal variation of channel width in southern Taiwan: Implications for landscape evolution and cascading hazards in steep, tectonically active landscapes. <i>Earth Surface Processes and Landforms</i> , 2018, 43, 1782-1797. | 2.5  | 14        |
| 23 | Large catchment area recharges Titanâ€™s Ontario Lacus. <i>Icarus</i> , 2018, 299, 331-338.   | 2.5  | 13        |
| 24 | Variability and Controls on $\hat{r}^{18}$ O, $\delta^{17}$ O, and $\hat{r}^{17}$ O in Southern Peruvian Precipitation. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD034009.   | 3.3  | 12        |
| 25 | Integrated UAS and LiDAR reveals the importance of land cover and flood magnitude on the formation of incipient chute holes and chute cutoff development. <i>Earth Surface Processes and Landforms</i> , 2020, 45, 1441-1455.                                       | 2.5  | 11        |
| 26 | Late Miocene rejuvenation of central Idaho landscape evolution: A case for surface processes driven by plume-lithosphere interaction. <i>Lithosphere</i> , 2019, 11, 59-72.   | 1.4  | 9         |
| 27 | A modeling framework (WRF-Landlab) for simulating orogen-scale climate-erosion coupling. <i>Computers and Geosciences</i> , 2021, 146, 104625.  | 4.2  | 7         |
| 28 | Quantifying Normal Fault Evolution from River Profile Analysis in the Northern Basin and Range Province, Southwest Montana, USA. <i>Lithosphere</i> , 2021, 2021, .   | 1.4  | 6         |
| 29 | Extreme event-driven sediment aggradation and erosional buffering along a tectonic gradient in southern Taiwan. <i>Geology</i> , 2022, 50, 16-20.   | 4.4  | 6         |
| 30 | Geomorphic effects of recurrent outburst superfloods in the Yigong River on the southeastern margin of Tibet. <i>Scientific Reports</i> , 2021, 11, 15577.  | 3.3  | 5         |
| 31 | Topographic Roughness on Forested Hillslopes: A Theoretical Approach for Quantifying Hillslope Sediment Flux From Tree Throw. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL094987.  | 4.0  | 5         |
| 32 | Bedrock river erosion through dipping layered rocks: quantifying erodibility through kinematic wave speed. <i>Earth Surface Dynamics</i> , 2021, 9, 723-753.  | 2.4  | 4         |
| 33 | Flume Experiments on the Erosive Energy of Bed Load Impacts on Rough and Planar Beds. <i>Journal of Geophysical Research F: Earth Surface</i> , 2021, 126, e2020JF005834.   | 2.8  | 3         |
| 34 | Landscape evolution under the southern Laurentide Ice Sheet. <i>Science Advances</i> , 2021, 7, eabj2938.   | 10.3 | 3         |
| 35 | Latitudinal trends in modern fluvial erosional efficiency along the Andes. <i>Geomorphology</i> , 2019, 329, 170-183.   | 2.6  | 2         |
| 36 | Analysis of Hillslope Erosion Based on Excess Topography in Southeastern Tibet. <i>Frontiers in Earth Science</i> , 2021, 9, .  | 1.8  | 2         |

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|----|--|-----|-----------|
| 37 | A Field Study on the Lithological Influence on the Interaction Between Weathering and Abrasion Processes in Bedrock Rivers. <i>Journal of Geophysical Research F: Earth Surface</i> , 2022, 127, .             | 2.8 | 1         |
| 38 | HYDROLOGY-BASED UNDERSTANDING OF ONTARIO LACUS ON TITAN'S SOUTH POLE. , 2016, , .  |     | 0         |
| 39 | EXPLORING THE LITHOLOGIC INFLUENCE ON BEDROCK RIVER MORPHOLOGY THROUGH THE SALMON RIVER WATERSHED OF CENTRAL IDAHO. , 2016, , .  |     | 0         |
| 40 | PATTERNS OF STEEPNESS IN WALLOWA RIVERS. , 2016, , .   |     | 0         |
| 41 | LANDSCAPES WITH LATITUDE: QUANTIFYING THE INFLUENCE OF CLIMATIC REGIMES ON GEOMORPHIC EFFECTIVENESS. , 2016, , .   |     | 0         |
| 42 | SURFACE PROCESSES DRIVEN BY PLUME-LITHOSPHERE INTERACTION: USING COSMOGENIC <sup>10</sup> BE RADIONUCLIDES WITH A RIVER INCISION MODEL TO STUDY LATE MIOCENE LANDSCAPE EVOLUTION IN CENTRAL IDAHO. , 2016, , . |     | 0         |
| 43 | EXPLORING THE LITHOLOGIC INFLUENCE ON BEDROCK RIVER MORPHOLOGY THROUGH LANDSCAPE TRANSIENCE IN THE SALMON RIVER WATERSHED OF CENTRAL IDAHO. , 2016, , .  |     | 0         |
| 44 | BIASING OF DETRITAL MINERAL RECORDS WHEN ERODING THROUGH LAYERED STRATIGRAPHY. , 2016, , .   |     | 0         |