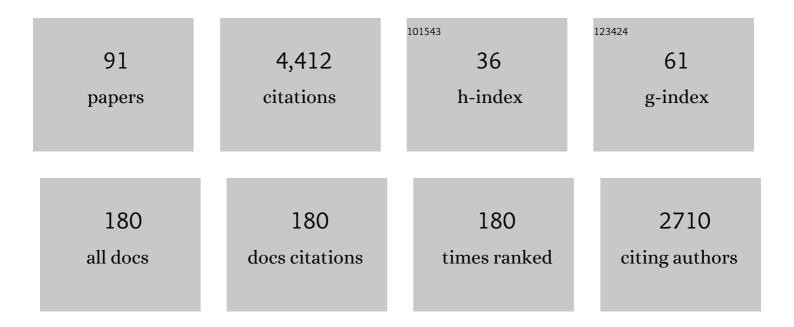
Jens M Turowski

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/7926975/publications.pdf Version: 2024-02-01



IENS M TUPOWSKI

| # | Article | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Influence of Rarely Mobile Boulders on Channel Width and Slope: Theory and Field Application. Journal of Geophysical Research F: Earth Surface, 2022, 127, . | 2.8 | 5 |
| 2 | Constraining tectonic uplift and advection from the main drainage divide of a mountain belt. Nature Communications, 2021, 12, 544. | 12.8 | 28 |
| 3 | Grainâ€Size Distribution and Propagation Effects on Seismic Signals Generated by Bedload Transport. Water Resources Research, 2021, 57, e2020WR028700. | 4.2 | 9 |
| 4 | Upscaling Sedimentâ€Fluxâ€Dependent Fluvial Bedrock Incision to Long Timescales. Journal of Geophysical Research F: Earth Surface, 2021, 126, e2020JF005880. | 2.8 | 13 |
| 5 | Controls on the grain size distribution of landslides in Taiwan: the influence of drop height, scar depth and bedrock strength. Earth Surface Dynamics, 2021, 9, 995-1011. | 2.4 | 9 |
| 6 | From Process to Centuries: Upscaling Field alibrated Models of Fluvial Bedrock Erosion. Geophysical Research Letters, 2021, 48, e2021GL093415. | 4.0 | 2 |
| 7 | The effect of roughness spacing and size on lateral deflection of bedload particles. Water Resources Research, 2021, 57, e2021WR029717. | 4.2 | 3 |
| 8 | The role of infrequently mobile boulders in modulating landscape evolution and geomorphic hazards. Earth-Science Reviews, 2021, 220, 103717. | 9.1 | 28 |
| 9 | Concentrationâ€Ðischarge Relationships of Dissolved Rhenium in Alpine Catchments Reveal Its Use as a Tracer of Oxidative Weathering. Water Resources Research, 2021, 57, e2021WR029844. | 4.2 | 13 |
| 10 | Site Dependence of Fluvial Incision Rate Scaling With Timescale. Journal of Geophysical Research F: Earth Surface, 2020, 125, e2020JF005808. | 2.8 | 3 |
| 11 | Width control on eventâ€scale deposition and evacuation of sediment in bedrockâ€confined channels. Earth Surface Processes and Landforms, 2020, 45, 3702-3713. | 2.5 | 12 |
| 12 | Seismic Monitoring of a Subarctic River: Seasonal Variations in Hydraulics, Sediment Transport, and Ice Dynamics. Journal of Geophysical Research F: Earth Surface, 2020, 125, e2019JF005333. | 2.8 | 12 |
| 13 | Mass balance, grade, and adjustment timescales in bedrock channels. Earth Surface Dynamics, 2020, 8, 103-122. | 2.4 | 24 |
| 14 | Controls on the lateral channelâ€migration rate of braided channel systems in coarse nonâ€cohesive sediment. Earth Surface Processes and Landforms, 2019, 44, 2823-2836. | 2.5 | 31 |
| 15 | Joint Sensing of Bedload Flux and Water Depth by Seismic Data Inversion. Water Resources Research, 2019, 55, 9892-9904. | 4.2 | 19 |
| 16 | Inferring the timing of abandonment of aggraded alluvial surfaces dated with cosmogenic nuclides. Earth Surface Dynamics, 2019, 7, 755-771. | 2.4 | 14 |
| 17 | Preservation of organic carbon during active fluvial transport and particle abrasion. Geology, 2019, 47, 958-962. | 4.4 | 25 |
| 18 | Testing models of step formation against observations of channel steps in a steep mountain stream. Earth Surface Processes and Landforms, 2019, 44, 1390-1406. | 2.5 | 27 |

| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Long-term erosion of the Nepal Himalayas by bedrock landsliding: the role of monsoons, earthquakes and giant landslides. Earth Surface Dynamics, 2019, 7, 107-128. | 2.4 | 85 |
| 20 | Historyâ€Dependent Threshold for Motion Revealed by Continuous Bedload Transport Measurements in a Steep Mountain Stream. Geophysical Research Letters, 2019, 46, 2583-2591. | 4.0 | 46 |
| 21 | Dynamics of the Askja caldera July 2014 landslide, Iceland, from seismic signal analysis: precursor, motion and aftermath. Earth Surface Dynamics, 2018, 6, 467-485. | 2.4 | 34 |
| 22 | Alluvial cover controlling the width, slope and sinuosity of bedrock channels. Earth Surface Dynamics, 2018, 6, 29-48. | 2.4 | 39 |
| 23 | Controls and feedbacks in the coupling of mountain channels and hillslopes. Geology, 2017, 45, 307-310. | 4.4 | 36 |
| 24 | Bed load transport and boundary roughness changes as competing causes of hysteresis in the relationship between river discharge and seismic amplitude recorded near a steep mountain stream. Journal of Geophysical Research F: Earth Surface, 2017, 122, 1182-1200. | 2.8 | 28 |
| 25 | Spatial patterns of erosion in a bedrock gorge. Journal of Geophysical Research F: Earth Surface, 2017, 122, 191-214. | 2.8 | 64 |
| 26 | Field techniques for measuring bedrock erosion and denudation. Earth Surface Processes and Landforms, 2017, 42, 109-127. | 2.5 | 26 |
| 27 | Spatiotemporal patterns, triggers and anatomies of seismically detected rockfalls. Earth Surface Dynamics, 2017, 5, 757-779. | 2.4 | 33 |
| 28 | A probabilistic framework for the cover effect in bedrock erosion. Earth Surface Dynamics, 2017, 5, 311-330. | 2.4 | 24 |
| 29 | Deriving principal channel metrics from bank and long-profile geometry with the RÂpackage cmgo. Earth Surface Dynamics, 2017, 5, 557-570. | 2.4 | 17 |
| 30 | DebrisInterMixing-2.3: a finite volume solver for three-dimensional debris-flow simulations with two calibration parameters – Part 2: Model validation with experiments. Geoscientific Model Development, 2017, 10, 3963-3978. | 3.6 | 20 |
| 31 | Testing seismic amplitude source location for fast debris-flow detection at Illgraben, Switzerland. Natural Hazards and Earth System Sciences, 2017, 17, 939-955. | 3.6 | 55 |
| 32 | Seismic monitoring of small alpine rockfalls – validity, precision and limitations. Earth Surface Dynamics, 2017, 5, 653-668. | 2.4 | 42 |
| 33 | DebrisInterMixing-2.3: aÂfinite volume solver for three-dimensional debris-flow simulations with two calibration parameters – Part 1: Model description. Geoscientific Model Development, 2016, 9, 2909-2923. | 3.6 | 44 |
| 34 | Seismic monitoring of torrential and fluvial processes. Earth Surface Dynamics, 2016, 4, 285-307. | 2.4 | 63 |
| 35 | Graffiti for science – erosion painting reveals spatially variable erosivity of sediment-laden flows. Earth Surface Dynamics, 2016, 4, 885-894. | 2.4 | 9 |
| 36 | Bed load transport in a very steep mountain stream (<scp>R</scp> iedbach, <scp>S</scp> witzerland): Measurement and prediction. Water Resources Research, 2016, 52, 9522-9541. | 4.2 | 29 |

| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | Laboratory flume experiments with the Swiss plate geophone bed load monitoring system: 1. Impulse counts and particle size identification. Water Resources Research, 2016, 52, 7744-7759. | 4.2 | 35 |
| 38 | Laboratory flume experiments with the Swiss plate geophone bed load monitoring system: 2. Application to field sites with direct bed load samples. Water Resources Research, 2016, 52, 7760-7778. | 4.2 | 38 |
| 39 | Bed load sediment transport inferred from seismic signals near a river. Journal of Geophysical Research F: Earth Surface, 2016, 121, 725-747. | 2.8 | 73 |
| 40 | Measurements of coarse particulate organic matter transport in steep mountain streams and estimates of decadal CPOM exports. Journal of Hydrology, 2016, 539, 162-176. | 5.4 | 12 |
| 41 | A probabilistic formulation of bed load transport to include spatial variability of flow and surface grain size distributions. Water Resources Research, 2016, 52, 3579-3598. | 4.2 | 24 |
| 42 | Measuring Bed Load Transport Rates by Grain-Size Fraction Using the Swiss Plate Geophone Signal at the Erlenbach. Journal of Hydraulic Engineering, 2016, 142, . | 1.5 | 59 |
| 43 | The influence of sediment thickness on energy delivery to the bed by bedload impacts. Geodinamica Acta, 2016, 28, 199-208. | 2.2 | 11 |
| 44 | Decadal carbon discharge by a mountain stream is dominated by coarse organic matter. Geology, 2016, 44, 27-30. | 4.4 | 45 |
| 45 | Grain size effects on energy delivery to the streambed and links to bedrock erosion. Geophysical Research Letters, 2015, 42, 1775-1780. | 4.0 | 37 |
| 46 | Applicability of bed load transport models for mixedâ€size sediments in steep streams considering macroâ€roughness. Water Resources Research, 2015, 51, 5260-5283. | 4.2 | 63 |
| 47 | Selfâ€∎djustment of stream bed roughness and flow velocity in a steep mountain channel. Water Resources Research, 2015, 51, 7838-7859. | 4.2 | 45 |
| 48 | Monsoonal hillslope processes determine grain sizeâ€specific suspended sediment fluxes in a transâ€Himalayan river. Geophysical Research Letters, 2015, 42, 2302-2308. | 4.0 | 32 |
| 49 | Morphodynamics of steep mountain channels. Earth Surface Processes and Landforms, 2015, 40, 1560-1562. | 2.5 | 9 |
| 50 | Field instrumentation for highâ€resolution parallel monitoring of bedrock erosion and bedload transport. Earth Surface Processes and Landforms, 2015, 40, 530-541. | 2.5 | 22 |
| 51 | Climate change impacts on bedload transport in alpine drainage basins with hydropower exploitation. Earth Surface Processes and Landforms, 2015, 40, 1587-1599. | 2.5 | 23 |
| 52 | The role of log jams and exceptional flood events in mobilizing coarse particulate organic matter in a steep headwater stream. Earth Surface Dynamics, 2015, 3, 311-320. | 2.4 | 32 |
| 53 | Calculation of bedload transport in Swiss mountain rivers using the model sedFlow: proof of concept. Earth Surface Dynamics, 2015, 3, 35-54. | 2.4 | 10 |
| 54 | sedFlow – a tool for simulating fractional bedload transport and longitudinal profile evolution in mountain streams. Earth Surface Dynamics, 2015, 3, 15-34. | 2.4 | 16 |

| # | Article | IF | CITATIONS |
|----|---|------|-----------|
| 55 | Bedload transport controls bedrock erosion under sediment-starved conditions. Earth Surface Dynamics, 2015, 3, 291-309. | 2.4 | 35 |
| 56 | Assessing the impact of climate change on brown trout (Salmo trutta fario) recruitment. Hydrobiologia, 2015, 751, 1-21. | 2.0 | 18 |
| 57 | Damage costs due to bedload transport processes in Switzerland. Natural Hazards and Earth System Sciences, 2014, 14, 279-294. | 3.6 | 64 |
| 58 | Seismic constraints on dynamic links between geomorphic processes and routing of sediment in a steep mountain catchment. Earth Surface Dynamics, 2014, 2, 21-33. | 2.4 | 44 |
| 59 | River gorge eradication by downstream sweep erosion. Nature Geoscience, 2014, 7, 682-686. | 12.9 | 63 |
| 60 | Bedload transport measurements with impact plate geophones: comparison of sensor calibration in different gravelâ€bed streams. Earth Surface Processes and Landforms, 2014, 39, 928-942. | 2.5 | 105 |
| 61 | Scaling relationships between bed load volumes, transport distances, and stream power in steep mountain channels. Journal of Geophysical Research F: Earth Surface, 2014, 119, 533-549. | 2.8 | 64 |
| 62 | Runoff-driven export of particulate organic carbon from soil in temperate forested uplands. Earth and Planetary Science Letters, 2013, 365, 198-208. | 4.4 | 77 |
| 63 | Field measurements of the energy delivered to the channel bed by moving bed load and links to bedrock erosion. Journal of Geophysical Research F: Earth Surface, 2013, 118, 2438-2450. | 2.8 | 32 |
| 64 | Upstream-facing convex surfaces: Bedrock bedforms produced by fluvial bedload abrasion. Geomorphology, 2013, 180-181, 187-204. | 2.6 | 30 |
| 65 | A demonstration of the importance of bedload transport for fluvial bedrock erosion and knickpoint propagation. Earth Surface Processes and Landforms, 2013, 38, 683-695. | 2.5 | 156 |
| 66 | Range imaging: a new method for highâ€resolution topographic measurements in small―and mediumâ€scale field sites. Earth Surface Processes and Landforms, 2013, 38, 810-825. | 2.5 | 20 |
| 67 | Large floods, alluvial overprint, and bedrock erosion. Earth Surface Processes and Landforms, 2013, 38, 947-958. | 2.5 | 51 |
| 68 | The mass distribution of coarse particulate organic matter exported from an Alpine headwater stream. Earth Surface Dynamics, 2013, 1, 1-11. | 2.4 | 38 |
| 69 | Sediment supply, grain protrusion, and bedload transport in mountain streams. Geophysical Research Letters, 2012, 39, . | 4.0 | 75 |
| 70 | Disturbance regimes at the interface of geomorphology and ecology. Earth Surface Processes and Landforms, 2012, 37, 1678-1682. | 2.5 | 20 |
| 71 | Macroroughness and variations in reachâ€averaged flow resistance in steep mountain streams. Water Resources Research, 2012, 48, . | 4.2 | 64 |
| 72 | Rainfall intensity–duration thresholds for bedload transport initiation in small Alpine watersheds. Natural Hazards and Earth System Sciences, 2012, 12, 3091-3108. | 3.6 | 27 |

| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 73 | Bedload transport measurements at the Erlenbach stream with geophones and automated basket samplers. Earth Surface Processes and Landforms, 2012, 37, 1000-1011. | 2.5 | 163 |
| 74 | Start and end of bedload transport in gravel-bed streams. Geophysical Research Letters, 2011, 38, n/a-n/a. | 4.0 | 125 |
| 75 | Probability distributions for bed form–dominated bed load transport: The Hamamori distribution revisited. Journal of Geophysical Research, 2011, 116, . | 3.3 | 9 |
| 76 | Evaluation of bedload transport predictions using flow resistance equations to account for macroâ€roughness in steep mountain streams. Water Resources Research, 2011, 47, . | 4.2 | 118 |
| 77 | Sediment transport modelling in a distributed physically based hydrological catchment model. Hydrology and Earth System Sciences, 2011, 15, 2821-2837. | 4.9 | 17 |
| 78 | Measuring the Statistics of Bed-Load Transport Using Indirect Sensors. Journal of Hydraulic Engineering, 2011, 137, 116-121. | 1.5 | 23 |
| 79 | The partitioning of the total sediment load of a river into suspended load and bedload: a review of empirical data. Sedimentology, 2010, 57, 1126-1146. | 3.1 | 236 |
| 80 | Probability distributions of bed load transport rates: A new derivation and comparison with field data. Water Resources Research, 2010, 46, . | 4.2 | 37 |
| 81 | Analysis of changes in the step-pool morphology and channel profile of a steep mountain stream following a large flood. Geomorphology, 2010, 124, 85-94. | 2.6 | 103 |
| 82 | Tools and cover effects in bedload transport observations in the Pitzbach, Austria. Earth Surface Processes and Landforms, 2009, 34, 26-37. | 2.5 | 94 |
| 83 | The impact of exceptional events on erosion, bedload transport and channel stability in a stepâ€pool channel. Earth Surface Processes and Landforms, 2009, 34, 1661-1673. | 2.5 | 202 |
| 84 | Response of bedrock channel width to tectonic forcing: Insights from a numerical model, theoretical considerations, and comparison with field data. Journal of Geophysical Research, 2009, 114, . | 3.3 | 73 |
| 85 | Stochastic modeling of the cover effect and bedrock erosion. Water Resources Research, 2009, 45, . | 4.2 | 33 |
| 86 | Distribution of erosion across bedrock channels. Earth Surface Processes and Landforms, 2008, 33, 353-363. | 2.5 | 134 |
| 87 | Recent volcano–ice interaction and outburst flooding in a Mars polar cap re-entrant. Icarus, 2008, 197, 24-38. | 2.5 | 28 |
| 88 | Hydraulic geometry, river sediment and the definition of bedrock channels. Geomorphology, 2008, 99, 26-38. | 2.6 | 145 |
| 89 | Cover effect in bedrock abrasion: A new derivation and its implications for the modeling of bedrock channel morphology. Journal of Geophysical Research, 2007, 112, . | 3.3 | 184 |
| 90 | Experimental channel response to tectonic uplift. Journal of Geophysical Research, 2006, 111, n/a-n/a. | 3.3 | 76 |

| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 91 | IN SITU MEASUREMENT OF BEDROCK EROSION. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XXXIX-B5, 429-433. | 0.2 | 5 |