# Gregory E Tucker

## List of Publications by Citations



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|---|---|---|---|
| 134 papers | 10,179 citations | 48 h-index | 100 g-index |
| 163 ext. papers | 11,265 ext. citations | 4.3 avg, IF | 6.53 L-index |

| # | Paper | IF | Citations |
|---|---|---|---|
| 134 | Dynamics of the stream-power river incision model: Implications for height limits of mountain ranges, landscape response timescales, and research needs. *Journal of Geophysical Research*, **1999**, 104, 17661-17674 | | 1289 |
| 133 | Landscape response to tectonic forcing: Digital elevation model analysis of stream profiles in the Mendocino triple junction region, northern California. *Bulletin of the Geological Society of America*, **2000**, 112, 1250-1263 | 3.9 | 618 |
| 132 | Implications of sediment-flux-dependent river incision models for landscape evolution. *Journal of Geophysical Research*, **2002**, 107, ETG 3-1 | | 421 |
| 131 | Hillslope processes, drainage density, and landscape morphology. *Water Resources Research*, **1998**, 34, 2751-2764 | 5.4 | 417 |
| 130 | Drainage basin responses to climate change. *Water Resources Research*, **1997**, 33, 2031-2047 | 5.4 | 402 |
| 129 | Erosional dynamics, flexural isostasy, and long-lived escarpments: A numerical modeling study. *Journal of Geophysical Research*, **1994**, 99, 12229-12243 | | 345 |
| 128 | Modelling landscape evolution. *Earth Surface Processes and Landforms*, **2010**, 35, 28-50 | 3.7 | 335 |
| 127 | Topographic outcomes predicted by stream erosion models: Sensitivity analysis and intermodel comparison. *Journal of Geophysical Research*, **2002**, 107, ETG 1-1-ETG 1-16 | | 279 |
| 126 | A stochastic approach to modeling the role of rainfall variability in drainage basin evolution. *Water Resources Research*, **2000**, 36, 1953-1964 | 5.4 | 246 |
| 125 | Drainage basin sensitivity to tectonic and climatic forcing: implications of a stochastic model for the role of entrainment and erosion thresholds. *Earth Surface Processes and Landforms*, **2004**, 29, 185-205 | 3.7 | 217 |
| 124 | Bedrock channel adjustment to tectonic forcing: Implications for predicting river incision rates. *Geology*, **2007**, 35, 103 | 5 | 190 |
| 123 | An object-oriented framework for distributed hydrologic and geomorphic modeling using triangulated irregular networks. *Computers and Geosciences*, **2001**, 27, 959-973 | 4.5 | 187 |
| 122 | Channel response to tectonic forcing: field analysis of stream morphology and hydrology in the Mendocino triple junction region, northern California. *Geomorphology*, **2003**, 53, 97-127 | 4.3 | 178 |
| 121 | Predicting sediment flux from fold and thrust belts. *Basin Research*, **1996**, 8, 329-349 | 3.2 | 176 |
| 120 | Decoding temporal and spatial patterns of fault uplift using transient river long profiles. *Geomorphology*, **2008**, 100, 506-526 | 4.3 | 157 |
| 119 | Statistical analysis of drainage density from digital terrain data. *Geomorphology*, **2001**, 36, 187-202 | 4.3 | 156 |
| 118 | Statistical treatment of fluvial dose distributions from southern Colorado arroyo deposits. *Quaternary Geochronology*, **2007**, 2, 162-167 | 2.7 | 152 |

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| 117 | The Channel-Hillslope Integrated Landscape Development Model (CHILD) **2001**, 349-388 | | 151 |
| 116 | Rock damage and regolith transport by frost: an example of climate modulation of the geomorphology of the critical zone. *Earth Surface Processes and Landforms*, **2013**, 38, 299-316 | 3.7 | 149 |
| 115 | Runoff-generated debris flows: Observations and modeling of surge initiation, magnitude, and frequency. *Journal of Geophysical Research F: Earth Surface*, **2013**, 118, 2190-2207 | 3.8 | 142 |
| 114 | Importance of a stochastic distribution of floods and erosion thresholds in the bedrock river incision problem. *Journal of Geophysical Research*, **2003**, 108, | | 136 |
| 113 | Numerical and analytical models of cosmogenic radionuclide dynamics in landslide-dominated drainage basins. *Journal of Geophysical Research*, **2009**, 114, | | 113 |
| 112 | Modeling fluvial incision and transient landscape evolution: Influence of dynamic channel adjustment. *Journal of Geophysical Research*, **2008**, 113, | | 113 |
| 111 | Evolution of a natural debris flow: In situ measurements of flow dynamics, video imagery, and terrestrial laser scanning. *Geology*, **2010**, 38, 735-738 | 5 | 108 |
| 110 | Contrasting transient and steady-state rivers crossing active normal faults: new field observations from the Central Apennines, Italy. *Basin Research*, **2007**, 19, 529-556 | 3.2 | 106 |
| 109 | A quantitative evaluation of Playfair's law and its use in testing long-term stream erosion models. *Earth Surface Processes and Landforms*, **2001**, 26, 1317-1332 | 3.7 | 104 |
| 108 | New constraints on sediment-flux□dependent river incision: Implications for extracting tectonic signals from river profiles. *Geology*, **2008**, 36, 535 | 5 | 102 |
| 107 | Creative computing with Landlab: an open-source toolkit for building, coupling, and exploring two-dimensional numerical models of Earth-surface dynamics. *Earth Surface Dynamics*, **2017**, 5, 21-46 | 3.8 | 101 |
| 106 | Controls and limits on bedrock channel geometry. *Journal of Geophysical Research*, **2010**, 115, | | 97 |
| 105 | Modeling the effects of vegetation-erosion coupling on landscape evolution. *Journal of Geophysical Research*, **2004**, 109, | | 96 |
| 104 | Sediment entrainment by debris flows: In situ measurements from the headwaters of a steep catchment. *Journal of Geophysical Research*, **2012**, 117, n/a-n/a | | 95 |
| 103 | Formation timescales of large Martian valley networks. *Earth and Planetary Science Letters*, **2011**, 312, 1-12 | 5.3 | 95 |
| 102 | How rivers react to large earthquakes: Evidence from central Taiwan. *Geology*, **2010**, 38, 639-642 | 5 | 95 |
| 101 | Investigating the surface process response to fault interaction and linkage using a numerical modelling approach. *Basin Research*, **2006**, 18, 231-266 | 3.2 | 94 |
| 100 | Implications of the shear stress river incision model for the timescale of postorogenic decay of topography. *Journal of Geophysical Research*, **2003**, 108, | | 91 |

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| 99 | Incision and channel morphology across active structures along the Peikang River, central Taiwan: Implications for the importance of channel width. *Bulletin of the Geological Society of America*, **2010**, 122, 1192-1208 | 3.9 | 86 |
| 98 | Fractional dispersion in a sand bed river. *Journal of Geophysical Research*, **2010**, 115, | | 86 |
| 97 | Measuring gravel transport and dispersion in a mountain river using passive radio tracers. *Earth Surface Processes and Landforms*, **2012**, 37, 1034-1045 | 3.7 | 79 |
| 96 | Downstream fining through selective particle sorting in an equilibrium drainage network. *Geology*, **1999**, 27, 1079 | 5 | 75 |
| 95 | Trouble with diffusion: Reassessing hillslope erosion laws with a particle-based model. *Journal of Geophysical Research*, **2010**, 115, | | 74 |
| 94 | Testing fluvial erosion models using the transient response of bedrock rivers to tectonic forcing in the Apennines, Italy. *Journal of Geophysical Research*, **2011**, 116, | | 71 |
| 93 | Network-scale dynamics of grain-size sorting: implications for downstream fining, stream-profile concavity, and drainage basin morphology. *Earth Surface Processes and Landforms*, **2004**, 29, 401-421 | 3.7 | 67 |
| 92 | Self-formed bedrock channels. *Geophysical Research Letters*, **2006**, 33, n/a-n/a | 4.9 | 64 |
| 91 | Does climate change create distinctive patterns of landscape incision?. *Journal of Geophysical Research*, **2010**, 115, | | 62 |
| 90 | Natural experiments in landscape evolution. *Earth Surface Processes and Landforms*, **2009**, 34, 1450-1460 | 3.7 | 56 |
| 89 | Climate, exposed source-rock lithologies, crustal uplift and surface erosion: a theoretical analysis calibrated with data from the Alps/North Alpine Foreland Basin system. *International Journal of Earth Sciences*, **2001**, 90, 484-499 | 2.2 | 54 |
| 88 | Hillslope-derived blocks retard river incision. *Geophysical Research Letters*, **2016**, 43, 5070-5078 | 4.9 | 51 |
| 87 | Modeling the response of the Rhine–Meuse fluvial system to Late Pleistocene climate change. *Geomorphology*, **2010**, 114, 440-452 | 4.3 | 49 |
| 86 | Geomorphic significance of postglacial bedrock scarps on normal-fault footwalls. *Journal of Geophysical Research*, **2011**, 116, n/a-n/a | | 48 |
| 85 | Headwater channel dynamics in semiarid rangelands, Colorado high plains, USA. *Bulletin of the Geological Society of America*, **2006**, 118, 959-974 | 3.9 | 48 |
| 84 | Frequency-dependent landscape response to climatic forcing. *Geophysical Research Letters*, **2013**, 40, 859-863 | 4.9 | 46 |
| 83 | Field measurement of basal forces generated by erosive debris flows. *Journal of Geophysical Research F: Earth Surface*, **2013**, 118, 589-602 | 3.8 | 46 |
| 82 | Channel network morphology and sediment dynamics under alternating periglacial and temperate regimes: a numerical simulation study. *Geomorphology*, **2003**, 54, 257-277 | 4.3 | 46 |

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| 81 | Which way do you lean? Using slope aspect variations to understand Critical Zone processes and feedbacks. *Earth Surface Processes and Landforms*, **2018**, 43, 1133-1154 | 3.7 | 46 |
| 80 | Implications of bank failures and fluvial erosion for gully development: Field observations and modeling. *Journal of Geophysical Research*, **2005**, 110, | | 44 |
| 79 | Interactions between onshore bedrock-channel incision and nearshore wave-base erosion forced by eustasy and tectonics. *Basin Research*, **2002**, 14, 105-127 | 3.2 | 43 |
| 78 | Analysis and modeling of gully headcut dynamics, North American high plains. *Journal of Geophysical Research F: Earth Surface*, **2014**, 119, 983-1003 | 3.8 | 42 |
| 77 | Effect of limited storm duration on landscape evolution, drainage basin geometry, and hydrograph shapes. *Journal of Geophysical Research*, **2004**, 109, | | 41 |
| 76 | Landscape scale linkages in critical zone evolution. *Comptes Rendus - Geoscience*, **2012**, 344, 586-596 | 1.4 | 40 |
| 75 | The SPACE 1.0 model: a Landlab component for 2-D calculation of sediment transport, bedrock erosion, and landscape evolution. *Geoscientific Model Development*, **2017**, 10, 4577-4604 | 6.3 | 39 |
| 74 | The storage time, age, and erosion hazard of laterally accreted sediment on the floodplain of a simulated meandering river. *Journal of Geophysical Research F: Earth Surface*, **2013**, 118, 1308-1319 | 3.8 | 39 |
| 73 | Geoarchaeological simulation of meandering river deposits and settlement distributions: A three-dimensional approach. *Geoarchaeology - an International Journal*, **2006**, 21, 843-874 | 1.4 | 35 |
| 72 | Illuminating wildfire erosion and deposition patterns with repeat terrestrial lidar. *Journal of Geophysical Research F: Earth Surface*, **2016**, 121, 588-608 | 3.8 | 35 |
| 71 | The influence of sediment cover variability on long-term river incision rates: An example from the Peikang River, central Taiwan. *Journal of Geophysical Research*, **2011**, 116, | | 34 |
| 70 | Developing and exploring a theory for the lateral erosion of bedrock channels for use in landscape evolution models. *Earth Surface Dynamics*, **2018**, 6, 1-27 | 3.8 | 34 |
| 69 | Luminescence as a Sediment Tracer and Provenance Tool. *Reviews of Geophysics*, **2019**, 57, 987-1017 | 23.1 | 33 |
| 68 | The use of GIS-based digital morphometric techniques in the study of cockpit karst. *Earth Surface Processes and Landforms*, **2007**, 32, 165-179 | 3.7 | 33 |
| 67 | Effects of riparian vegetation on topographic change during a large flood event, Rio Puerco, New Mexico, USA. *Journal of Geophysical Research F: Earth Surface*, **2013**, 118, 1193-1209 | 3.8 | 31 |
| 66 | Observed and simulated hydrologic response for a first-order catchment during extreme rainfall 3 years after wildfire disturbance. *Water Resources Research*, **2016**, 52, 9367-9389 | 5.4 | 30 |
| 65 | Dynamic Ridges and Valleys in a Strike-Slip Environment. *Journal of Geophysical Research F: Earth Surface*, **2015**, 120, 2016-2026 | 3.8 | 30 |
| 64 | The influence of crustal strength fields on the patterns and rates of fluvial incision. *Journal of Geophysical Research F: Earth Surface*, **2015**, 120, 275-299 | 3.8 | 27 |

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| 63 | Modeling the evolution of channel shape: Balancing computational efficiency with hydraulic fidelity. *Journal of Geophysical Research*, **2008**, 113, | | 27 |
| 62 | Evidence for climatic and hillslope-aspect controls on vadose zone hydrology and implications for saprolite weathering. *Earth Surface Processes and Landforms*, **2015**, 40, 1254-1269 | 3.7 | 26 |
| 61 | Aspect-dependent soil saturation and insight into debris-flow initiation during extreme rainfall in the Colorado Front Range. *Geology*, **2015**, 43, 659-662 | 5 | 26 |
| 60 | Block-controlled hillslope form and persistence of topography in rocky landscapes. *Geology*, **2017**, 45, 311-314 | 5 | 25 |
| 59 | Off-fault deformation rate along the southern San Andreas fault at Mecca Hills, southern California, inferred from landscape modeling of curved drainages. *Geology*, **2018**, 46, 59-62 | 5 | 25 |
| 58 | The Landlab v1.0 OverlandFlow component: a Python tool for computing shallow-water flow across watersheds. *Geoscientific Model Development*, **2017**, 10, 1645-1663 | 6.3 | 24 |
| 57 | A fault runs through it: Modeling the influence of rock strength and grain-size distribution in a fault-damaged landscape. *Journal of Geophysical Research F: Earth Surface*, **2016**, 121, 1911-1930 | 3.8 | 24 |
| 56 | Short communication: Landlab v2.0: a software package for Earth surface dynamics. *Earth Surface Dynamics*, **2020**, 8, 379-397 | 3.8 | 23 |
| 55 | Offset Channels May Not Accurately Record Strike-Slip Fault Displacement: Evidence From Landscape Evolution Models. *Journal of Geophysical Research: Solid Earth*, **2019**, 124, 13427-13451 | 3.6 | 23 |
| 54 | Variable-Threshold Behavior in Rivers Arising From Hillslope-Derived Blocks. *Journal of Geophysical Research F: Earth Surface*, **2018**, 123, 1931-1957 | 3.8 | 21 |
| 53 | Effects of woody vegetation on overbank sand transport during a large flood, Rio Puerco, New Mexico. *Geomorphology*, **2014**, 207, 30-50 | 4.3 | 20 |
| 52 | A model for post-orogenic development of a mountain range and its foreland. *Basin Research*, **2013**, 25, 241-259 | 3.2 | 20 |
| 51 | Multi-scale characterization of topographic anisotropy. *Computers and Geosciences*, **2016**, 90, 102-116 | 4.5 | 17 |
| 50 | Canyon shape and erosion dynamics governed by channel-hillslope feedbacks. *Geology*, **2019**, 47, 650-654 | 5 | 17 |
| 49 | Six Myths About Mathematical Modeling in Geomorphology. *Geophysical Monograph Series*, **2013**, 63-79 | 1.1 | 16 |
| 48 | Dynamic links among rock damage, erosion, and strain during orogenesis. *Geology*, **2016**, 44, 583-586 | 5 | 15 |
| 47 | On extracting sediment transport information from measurements of luminescence in river sediment. *Journal of Geophysical Research F: Earth Surface*, **2017**, 122, 654-677 | 3.8 | 14 |
| 46 | Inverting Topography for Landscape Evolution Model Process Representation: 3. Determining Parameter Ranges for Select Mature Geomorphic Transport Laws and Connecting Changes in Fluvial Erodibility to Changes in Climate. *Journal of Geophysical Research F: Earth Surface*, **2020**, 125, e2019JF005287 | 3.8 | 14 |

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| 45 | The importance of the catchment area–length relationship in governing non-steady state hydrology, optimal junction angles and drainage network pattern. *Geomorphology*, **2007**, 88, 84-108 | 4.3 | 14 |
| 44 | Enabling Collaborative Numerical Modeling in Earth Sciences using Knowledge Infrastructure. *Environmental Modelling and Software*, **2019**, 120, 104424 | 5.2 | 13 |
| 43 | Terrainbento 1.0: a Python package for multi-model analysis in long-term drainage basin evolution. *Geoscientific Model Development*, **2019**, 12, 1267-1297 | 6.3 | 13 |
| 42 | A simple algorithm for the mapping of TIN data onto a static grid: Applied to the stratigraphic simulation of river meander deposits. *Computers and Geosciences*, **2006**, 32, 749-766 | 4.5 | 13 |
| 41 | Depth-dependent soil mixing persists across climate zones. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 8750-8756 | 11.5 | 12 |
| 40 | A hydroclimatological approach to predicting regional landslide probability using Landlab. *Earth Surface Dynamics*, **2018**, 6, 49-75 | 3.8 | 12 |
| 39 | Interpreting climate-modulated processes of terrace development along the Colorado Front Range using a landscape evolution model. *Journal of Geophysical Research F: Earth Surface*, **2015**, 120, 2121-2138 | 3.8 | 12 |
| 38 | The Timing and Style of Oblique Deformation Within New Zealand's Kaikōura Ranges and Marlborough Fault System Based on Low-Temperature Thermochronology. *Tectonics*, **2019**, 38, 1250-1272 | 4.3 | 11 |
| 37 | Inverting Topography for Landscape Evolution Model Process Representation: 1. Conceptualization and Sensitivity Analysis. *Journal of Geophysical Research F: Earth Surface*, **2020**, 125, e2018JF004961 | 3.8 | 11 |
| 36 | Inverting Topography for Landscape Evolution Model Process Representation: 2. Calibration and Validation. *Journal of Geophysical Research F: Earth Surface*, **2020**, 125, e2018JF004963 | 3.8 | 11 |
| 35 | Exploring links between vadose zone hydrology and chemical weathering in the Boulder Creek critical zone observatory. *Applied Geochemistry*, **2011**, 26, S70-S71 | 3.5 | 10 |
| 34 | The Basic Model Interface 2.0: A standard interface for coupling numerical models in the geosciences. *Journal of Open Source Software*, **2020**, 5, 2317 | 5.2 | 10 |
| 33 | CellLab-CTS 2015: continuous-time stochastic cellular automaton modeling using Landlab. *Geoscientific Model Development*, **2016**, 9, 823-839 | 6.3 | 10 |
| 32 | Statistical Classification of Self-Organized Snow Surfaces. *Geophysical Research Letters*, **2018**, 45, 6532-6541 | 4.9 | 9 |
| 31 | Correction to "Importance of a stochastic distribution of floods and erosion thresholds in the bedrock river incision problem" *Journal of Geophysical Research*, **2003**, 108, | | 8 |
| 30 | The Role of Near-Fault Relief Elements in Creating and Maintaining a Strike-Slip Landscape. *Geophysical Research Letters*, **2018**, 45, 11,683 | 4.9 | 8 |
| 29 | River patterns reveal two stages of landscape evolution at an oblique convergent margin, Marlborough Fault System, New Zealand. *Earth Surface Dynamics*, **2020**, 8, 177-194 | 3.8 | 7 |
| 28 | A lattice grain model of hillslope evolution. *Earth Surface Dynamics*, **2018**, 6, 563-582 | 3.8 | 6 |

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| 27 | Application of a Luminescence-Based Sediment Transport Model. *Geophysical Research Letters*, **2018**, 45, 6071 | 4.9 | 6 |
| 26 | Modelling cockpit karst landforms. *Geological Society Special Publication*, **2008**, 296, 47-62 | 1.7 | 6 |
| 25 | Optical dating of potassium feldspar using far-red (>665nm) IRSL emissions: a comparative study using fluvial sediments from the Loire River, France. *Quaternary Science Reviews*, **2003**, 22, 1093-1098 | 3.9 | 6 |
| 24 | GroundwaterDupuitPercolator: A Landlab component for groundwater flow. *Journal of Open Source Software*, **2020**, 5, 1935 | 5.2 | 6 |
| 23 | Modeling the Shape and Evolution of Normal-Fault Facets. *Journal of Geophysical Research F: Earth Surface*, **2020**, 125, e2019JF005305 | 3.8 | 5 |
| 22 | Lithology: A Landlab submodule for spatially variable rock properties. *Journal of Open Source Software*, **2018**, 3, 979 | 5.2 | 5 |
| 21 | Impact of vegetation on erosion: Insights from the calibration and test of a landscape evolution model in alpine badland catchments. *Earth Surface Processes and Landforms*, **2020**, 45, 1085-1099 | 3.7 | 5 |
| 20 | Orographic Controls on Subdaily Rainfall Statistics and Flood Frequency in the Colorado Front Range, USA. *Geophysical Research Letters*, **2020**, 47, e2019GL085086 | 4.9 | 5 |
| 19 | Boulders as a lithologic control on river and landscape response to tectonic forcing at the Mendocino triple junction. *Bulletin of the Geological Society of America*, **2021**, 133, 647-662 | 3.9 | 5 |
| 18 | The evolution of snow bedforms in the Colorado Front Range and the processes that shape them. *Cryosphere*, **2019**, 13, 1267-1281 | 5.5 | 4 |
| 17 | umami: A Python package for Earth surface dynamics objective function construction. *Journal of Open Source Software*, **2019**, 4, 1776 | 5.2 | 4 |
| 16 | Episodic bedrock erosion by gully-head migration, Colorado High Plains, USA. *Earth Surface Processes and Landforms*, **2016**, 41, 1574-1582 | 3.7 | 4 |
| 15 | Application of an evolutionary algorithm for parameter optimization in a gully erosion model. *Environmental Modelling and Software*, **2016**, 80, 297-305 | 5.2 | 4 |
| 14 | The evolution of a colluvial hollow to a fluvial channel with periodic steps following two transformational disturbances: A wildfire and a historic flood. *Geomorphology*, **2018**, 309, 121-130 | 4.3 | 3 |
| 13 | Linking Taiwan's subcritical Hsuehshan Range topography and foreland basin architecture. *Tectonics*, **2011**, 30, n/a-n/a | 4.3 | 3 |
| 12 | Numerical Predictions of the Sensitivity of Grain Size and Channel Slope to an Increase in Precipitation **2008**, 367-394 | | 3 |
| 11 | Soils, slopes and source rocks: Application of a soil chemistry model to nutrient delivery to rift lakes. *Sedimentary Geology*, **2015**, 323, 31-42 | 2.8 | 2 |
| 10 | Correction to Self-formed bedrock channels *Geophysical Research Letters*, **2006**, 33, | 4.9 | 2 |

# List of Publications

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|---|---|---|---|
| 9 | CSDMS: a community platform for numerical modeling of Earth surface processes. *Geoscientific Model Development*, **2022**, 15, 1413-1439 | 6.3 | 2 |
| 8 | Short communication: Landlab v2.0: A software package for Earth surface dynamics **2020**, | | 1 |
| 7 | Structural inheritance and erosional controls on thrust kinematics in western Taiwan **2013**, 9, 1091-1101 | | 1 |
| 6 | CellLab-CTS 2015: a Python library for continuous-time stochastic cellular automaton modeling using Landlab | | 1 |
| 5 | Projections of Landscape Evolution on a 10,000□Year Timescale With Assessment and Partitioning of Uncertainty Sources. *Journal of Geophysical Research F: Earth Surface*, **2020**, 125, e2020JF005795 | 3.8 | 1 |
| 4 | A lattice grain model of hillslope evolution **2018**, | | 1 |
| 3 | Influence of Climate-Forcing Frequency on Hillslope Response. *Geophysical Research Letters*, **2021**, 48, e2021GL094305 | 4.9 | 1 |
| 2 | A Community Approach to Modeling Earthscapes **2021**, | | |
| 1 | The Babelizer: language interoperability for model coupling in the geosciences. *Journal of Open Source Software*, **2022**, 7, 3344 | 5.2 | |