

Dirk Scherler

List of Publications by Year in descending order

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Version: 2024-02-01

51
papers

4,063
citations

159525

30
h-index

189801

50
g-index

82
all docs

82
docs citations

82
times ranked

4193
citing authors

#	ARTICLE	IF	CITATIONS
1	A Combined Cosmogenic Nuclides Approach for Determining the Temperature-Dependence of Erosion. <i>Journal of Geophysical Research F: Earth Surface</i> , 2022, 127, .	1.0	2
2	Temporal evolution of headwall erosion rates derived from cosmogenic nuclide concentrations in the medial moraines of Glacier d'Otemma, Switzerland. <i>Earth Surface Processes and Landforms</i> , 2022, 47, 2437-2454.	1.2	3
3	A systematic approach and software for the analysis of point patterns on river networks. <i>Earth Surface Processes and Landforms</i> , 2021, 46, 1847-1862.	1.2	7
4	Sedimentary ancient DNA reveals a threat of warming-induced alpine habitat loss to Tibetan Plateau plant diversity. <i>Nature Communications</i> , 2021, 12, 2995.	5.8	32
5	The Causes of Debris-Covered Glacier Thinning: Evidence for the Importance of Ice Dynamics From Kennicott Glacier, Alaska. <i>Frontiers in Earth Science</i> , 2021, 9, .	0.8	14
6	Tectonic Accretion Controls Erosional Cyclicity in the Himalaya. <i>AGU Advances</i> , 2021, 2, e2021AV000487.	2.3	14
7	Production and Transport of Supraglacial Debris: Insights From Cosmogenic ¹⁰ Be and Numerical Modeling, Chhota Shigri Glacier, Indian Himalaya. <i>Journal of Geophysical Research F: Earth Surface</i> , 2020, 125, e2020JF005586.	1.0	17
8	Glacial influence on late Pleistocene ¹⁰ Be-derived paleo-erosion rates in the north-western Himalaya, India. <i>Earth and Planetary Science Letters</i> , 2020, 547, 116441.	1.8	10
9	Drainage divide networks – Part 1: Identification and ordering in digital elevation models. <i>Earth Surface Dynamics</i> , 2020, 8, 245-259.	1.0	24
10	Drainage divide networks – Part 2: Response to perturbations. <i>Earth Surface Dynamics</i> , 2020, 8, 261-274.	1.0	23
11	Divide mobility controls knickpoint migration on the Roan Plateau (Colorado, USA). <i>Geology</i> , 2020, 48, 698-702.	2.0	38
12	Multiproxy Isotopic and Geochemical Analysis of the Siwalik Sediments in NW India: Implication for the Late Cenozoic Tectonic Evolution of the Himalaya. <i>Tectonics</i> , 2019, 38, 120-143.	1.3	19
13	Effects of long soil surface residence times on apparent cosmogenic nuclide denudation rates and burial ages in the Cradle of Humankind, South Africa. <i>Earth Surface Processes and Landforms</i> , 2019, 44, 2968-2981.	1.2	12
14	Cosmogenic ¹⁰ Be in river sediment: where grain size matters and why. <i>Earth Surface Dynamics</i> , 2019, 7, 393-410.	1.0	30
15	Spatiotemporal variation of late Quaternary river incision rates in southeast Tibet, constrained by dating fluvial terraces. <i>Lithosphere</i> , 2018, 10, 662-675.	0.6	30
16	Global Assessment of Supraglacial Debris-Cover Extents. <i>Geophysical Research Letters</i> , 2018, 45, 11,798.	1.5	130
17	Segmentation of the Main Himalayan Thrust Revealed by Low-Temperature Thermochronometry in the Western Indian Himalaya. <i>Tectonics</i> , 2018, 37, 2710-2726.	1.3	14
18	Testing monsoonal controls on bedrock river incision in the Himalaya and Eastern Tibet with a stochastic-threshold stream power model. <i>Journal of Geophysical Research F: Earth Surface</i> , 2017, 122, 1389-1429.	1.0	54

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19	Perturbation of fluvial sediment fluxes following the 2008 Wenchuan earthquake. <i>Earth Surface Processes and Landforms</i> , 2017, 42, 2611-2622.	1.2	52
20	Bumps in river profiles: uncertainty assessment and smoothing using quantile regression techniques. <i>Earth Surface Dynamics</i> , 2017, 5, 821-839.	1.0	109
21	Climate-driven sediment aggradation and incision since the late Pleistocene in the NW Himalaya, India. <i>Earth and Planetary Science Letters</i> , 2016, 449, 321-331.	1.8	50
22	Glacial isostatic uplift of the European Alps. <i>Nature Communications</i> , 2016, 7, 13382.	5.8	62
23	Climate-change versus landslide origin of fill terraces in a rapidly eroding bedrock landscape: San Gabriel River, California. <i>Bulletin of the Geological Society of America</i> , 2016, 128, 1228-1248.	1.6	19
24	Climatic controls on debris-flow activity and sediment aggradation: The Del Medio fan, NW Argentina. <i>Journal of Geophysical Research F: Earth Surface</i> , 2016, 121, 2424-2445.	1.0	18
25	Holocene internal shortening within the northwest Sub-Himalaya: Out-of-sequence faulting of the Jwalamukhi Thrust, India. <i>Tectonics</i> , 2016, 35, 2677-2697.	1.3	36
26	Time scale bias in erosion rates of glaciated landscapes. <i>Science Advances</i> , 2016, 2, e1600204.	4.7	56
27	Rapid Last Glacial Maximum deglaciation in the Indian Himalaya coeval with midlatitude glaciers: New insights from $>10^5$ Be dating of ice-polished bedrock surfaces in the Chandra Valley, NW Himalaya. <i>Geophysical Research Letters</i> , 2016, 43, 1589-1597.	1.5	42
28	Landscape response to late Pleistocene climate change in NW Argentina: Sediment flux modulated by basin geometry and connectivity. <i>Journal of Geophysical Research F: Earth Surface</i> , 2016, 121, 392-414.	1.0	42
29	Differentiating between rain, snow, and glacier contributions to river discharge in the western Himalaya using remote-sensing data and distributed hydrological modeling. <i>Advances in Water Resources</i> , 2016, 88, 152-169.	1.7	70
30	Estimating the fill thickness and bedrock topography in intermontane valleys using artificial neural networks. <i>Journal of Geophysical Research F: Earth Surface</i> , 2015, 120, 1301-1320.	1.0	17
31	Increased late Pleistocene erosion rates during fluvial aggradation in the Garhwal Himalaya, northern India. <i>Earth and Planetary Science Letters</i> , 2015, 428, 255-266.	1.8	67
32	Effect of vegetation cover on millennial-scale landscape denudation rates in East Africa. <i>Lithosphere</i> , 2015, 7, 408-420.	0.6	58
33	Response to Comment on "Tectonic control of Yarlung Tsangpo Gorge revealed by a buried canyon in Southern Tibet". <i>Science</i> , 2015, 349, 799-799.	6.0	16
34	Short Communication: TopoToolbox 2 – MATLAB-based software for topographic analysis and modeling in Earth surface sciences. <i>Earth Surface Dynamics</i> , 2014, 2, 1-7.	1.0	678
35	Ice dams, outburst floods, and glacial incision at the western margin of the Tibetan Plateau: A >100 k.y. chronology from the Shyok Valley, Karakoram. <i>Bulletin of the Geological Society of America</i> , 2014, 126, 738-758.	1.6	33
36	Climatic limits to headwall retreat in the Khumbu Himalaya, eastern Nepal. <i>Geology</i> , 2014, 42, 1019-1022.	2.0	51

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37	Postglacial denudation of western Tibetan Plateau margin outpaced by long-term exhumation. <i>Bulletin of the Geological Society of America</i> , 2014, 126, 1580-1594.	1.6	32
38	Tectonic control on ^{10}Be -derived erosion rates in the Garhwal Himalaya, India. <i>Journal of Geophysical Research F: Earth Surface</i> , 2014, 119, 83-105.	1.0	141
39	Tectonic control of Yarlung Tsangpo Gorge revealed by a buried canyon in Southern Tibet. <i>Science</i> , 2014, 346, 978-981.	6.0	171
40	Multiple fluvial processes detected by riverside seismic and infrasound monitoring of a controlled flood in the Grand Canyon. <i>Geophysical Research Letters</i> , 2013, 40, 4858-4863.	1.5	90
41	Large surface velocity fluctuations of Biafo Glacier, central Karakoram, at high spatial and temporal resolution from optical satellite images. <i>Journal of Glaciology</i> , 2012, 58, 569-580.	1.1	53
42	Climatic and geologic controls on suspended sediment flux in the Sutlej River Valley, western Himalaya. <i>Hydrology and Earth System Sciences</i> , 2012, 16, 2193-2217.	1.9	72
43	Hillslope-glacier coupling: The interplay of topography and glacial dynamics in High Asia. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	117
44	Spatially variable response of Himalayan glaciers to climate change affected by debris cover. <i>Nature Geoscience</i> , 2011, 4, 156-159.	5.4	812
45	Seasonal precipitation gradients and their impact on fluvial sediment flux in the Northwest Himalaya. <i>Geomorphology</i> , 2010, 118, 13-21.	1.1	140
46	Timing and extent of late Quaternary glaciation in the western Himalaya constrained by ^{10}Be moraine dating in Garhwal, India. <i>Quaternary Science Reviews</i> , 2010, 29, 815-831.	1.4	82
47	Glacier-surface velocities in alpine terrain from optical satellite imagery—Accuracy improvement and quality assessment. <i>Remote Sensing of Environment</i> , 2008, 112, 3806-3819.	4.6	286
48	Structural record of an oblique impact. <i>Earth and Planetary Science Letters</i> , 2006, 248, 43-53.	1.8	38
49	Structure and formation of a central uplift: A case study at the Upheaval Dome impact crater, Utah. , 2005, , .		29
50	Structure and impact indicators of the Cretaceous sequence of the ICDP drill core Yaxcopoil-1, Chicxulub impact crater, Mexico. <i>Meteoritics and Planetary Science</i> , 2004, 39, 1069-1088.	0.7	31
51	Short Communication: TopoToolbox 2 — an efficient and user-friendly tool for Earth surface sciences. , 0, , .		5