Arjun M Heimsath

List of Publications by Year
in descending order

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41 papers	4,589 citations	172443 29 h-index	302107 39 g-index
41 all docs	41 docs citations	41 times ranked	3177 citing authors

#	Article	IF	Citations
1	Low variability runoff inhibits coupling of climate, tectonics, and topography in the Greater Caucasus. Earth and Planetary Science Letters, 2022, 584, 117525.	4.4	12
2	Quantifying erosional equilibrium across a slowly eroding, soil mantled landscape. Earth Surface Processes and Landforms, 2020, 45, 499-510.	2.5	8
3	Climate controls on erosion in tectonically active landscapes. Science Advances, 2020, 6, .	10.3	75
4	Strength matters: Resisting erosion across upland landscapes. Earth Surface Processes and Landforms, 2019, 44, 1748-1754.	2.5	13
5	Causes of rapid uplift and exceptional topography of Gongga Shan on the eastern margin of the Tibetan Plateau. Earth and Planetary Science Letters, 2018, 481, 328-337.	4.4	27
6	In situ development of highâ€elevation, lowâ€relief landscapes via duplex deformation in the Eastern Himalayan hinterland, Bhutan. Journal of Geophysical Research F: Earth Surface, 2016, 121, 294-319.	2.8	45
7	Experimental socioecology: Integrative science for anthropocene landscape dynamics. Anthropocene, 2016, 13, 34-45.	3.3	32
8	Forecasting the response of Earth's surface to future climatic and land use changes: A review of methods and research needs. Earth's Future, 2015, 3, 220-251.	6.3	98
9	The impact of local geochemical variability on quantifying hillslope soil production and chemical weathering. Geomorphology, 2013, 200, 75-88.	2.6	16
10	Shaping post-orogenic landscapes by climate and chemical weathering. Geology, 2013, 41, 1171-1174.	4.4	48
11	Soil production limits and the transition to bedrock-dominated landscapes. Nature Geoscience, 2012, 5, 210-214.	12.9	156
12	Chemical weathering response to tectonic forcing: A soils perspective from the San Gabriel Mountains, California. Earth and Planetary Science Letters, 2012, 323-324, 40-49.	4.4	126
13	Hillslope response to tectonic forcing in threshold landscapes. Earth Surface Processes and Landforms, 2012, 37, 855-865.	2.5	102
14	Quantifying rates and processes of landscape evolution. Earth Surface Processes and Landforms, 2012, 37, 249-251.	2.5	3
15	Topographic control of asynchronous glacial advances: A case study from Annapurna, Nepal. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	38
16	Eroding Australia: rates and processes from Bega Valley to Arnhem Land. Geological Society Special Publication, 2010, 346, 225-241.	1.3	41
17	Landscape form and millennial erosion rates in the San Gabriel Mountains, CA. Earth and Planetary Science Letters, 2010, 289, 134-144.	4.4	400
18	Weathering the escarpment: chemical and physical rates and processes, southâ€eastern Australia. Earth Surface Processes and Landforms, 2009, 34, 768-785.	2.5	56

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19	The critical role of climate and saprolite weathering in landscape evolution. Earth Surface Processes and Landforms, 2009, 34, 1507-1521.	2.5	218
20	The â€˜humpedâ€™ soil production function: eroding Arnhem Land, Australia. Earth Surface Processes and Landforms, 2009, 34, 1674-1684.	2.5	102
21	Quantifying periglacial erosion: insights on a glacial sediment budget, Matanuska Glacier, Alaska. Earth Surface Processes and Landforms, 2009, 34, 2008-2022.	2.5	33
22	Statistical description of slopeâ€dependent soil transport and the diffusionâ€like coefficient. Journal of Geophysical Research, 2009, 114, .	3.3	68
23	Quantifying periglacial erosion in the Nepal high Himalaya. Geomorphology, 2008, 97, 5-23.	2.6	74
24	Short-term soil mixing quantified with fallout radionuclides. Geology, 2007, 35, 243.	4.4	111
25	Quantifying hillslope erosion rates and processes for a coastal California landscape over varying timescales. Earth Surface Processes and Landforms, 2007, 32, 544-560.	2.5	40
26	Coupling chemical weathering with soil production across soil-mantled landscapes. Earth Surface Processes and Landforms, 2007, 32, 853-873.	2.5	106
27	Spatial patterns of soil organic carbon on hillslopes: Integrating geomorphic processes and the biological C cycle. Geoderma, 2006, 130, 47-65.	5.1	199
28	Quantifying sediment transport across an undisturbed prairie landscape using cesium-137 and high resolution topography. Geomorphology, 2006, 76, 430-440.	2.6	44
29	Quantifying rates and timescales of geomorphic processes. Earth Surface Processes and Landforms, 2005, 30, 917-921.	2.5	13
30	Process-based model linking pocket gopher (Thomomys bottae) activity to sediment transport and soil thickness. Geology, 2005, 33, 917.	4.4	112
31	The illusion of diffusion: Field evidence for depth-dependent sediment transport. Geology, 2005, 33, 949.	4.4	154
32	Effects of bedrock landslides on cosmogenically determined erosion rates. Earth and Planetary Science Letters, 2005, 237, 480-498.	4.4	242
33	Reply to Comments by J. H. Chandler and Others. Mathematical Geosciences, 2003, 35, 351-352.	0.9	0
34	Creeping soil. Geology, 2002, 30, 111.	4.4	154
35	Hillslope Topography from Unconstrained Photographs. Mathematical Geosciences, 2002, 34, 929-952.	0.9	9
36	Sediment transport mechanisms on soil-mantled hillslopes. Geology, 2001, 29, 683.	4.4	89

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37	Soil production on a retreating escarpment in southeastern Australia. Geology, 2000, 28, 787.	4.4	223
38	Soil production on a retreating escarpment in southeastern Australia. Geology, 2000, 28, 787-790.	4.4	11
39	Cosmogenic nuclides, topography, and the spatial variation of soil depth. Geomorphology, 1999, 27, 151-172.	2.6	290
40	The soil production function and landscape equilibrium. Nature, 1997, 388, 358-361.	27.8	767
41	Geomorphic Transport Laws for Predicting Landscape form and Dynamics. Geophysical Monograph Series, 0, , 103-132.	0.1	234