

Robert S Anderson

List of Publications by Year in descending order

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59
papers

7,211
citations

109137

35
h-index

138251

58
g-index

61
all docs

61
docs citations

61
times ranked

4971
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Ice-marginal lake hydrology and the seasonal dynamical evolution of Kennicott Glacier, Alaska. <i>Journal of Glaciology</i> , 2020, 66, 699-713.	1.1	10
3	Characterizing the transient geomorphic response to base-level fall in the northeastern Tibetan Plateau. <i>Journal of Geophysical Research F: Earth Surface</i> , 2017, 122, 546-572.	1.0	36
4	Spatial Patterns of Summer Speedup on South Central Alaska Glaciers. <i>Geophysical Research Letters</i> , 2017, 44, 9379-9388.	1.5	21
5	Dating of river terraces along Lefthand Creek, western High Plains, Colorado, reveals punctuated incision. <i>Geomorphology</i> , 2017, 295, 176-190.	1.1	18
6	Assessing the effect of a major storm on ¹⁰ Be concentrations and inferred basin-averaged denudation rates. <i>Quaternary Geochronology</i> , 2016, 34, 58-68.	0.6	19
7	Particle trajectories on hillslopes: Implications for particle age and ¹⁰ Be structure. <i>Journal of Geophysical Research F: Earth Surface</i> , 2015, 120, 1626-1644.	1.0	25
8	Interpreting climate-modulated processes of terrace development along the Colorado Front Range using a landscape evolution model. <i>Journal of Geophysical Research F: Earth Surface</i> , 2015, 120, 2121-2138.	1.0	13
9	Hillslope lowering rates and mobile-regolith residence times from in situ and meteoric ¹⁰ Be analysis, Boulder Creek Critical Zone Observatory, Colorado. <i>Bulletin of the Geological Society of America</i> , 2015, 127, 862-878.	1.6	32
10	Rock damage and regolith transport by frost: an example of climate modulation of the geomorphology of the critical zone. <i>Earth Surface Processes and Landforms</i> , 2013, 38, 299-316.	1.2	189
11	Scaling the Teflon Peaks: Rock type and the generation of extreme relief in the glaciated western Alaska Range. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	30
12	Unsteady late Pleistocene incision of streams bounding the Colorado Front Range from measurements of meteoric and in situ ¹⁰ Be. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	22
13	Far-flung moraines: Exploring the feedback of glacial erosion on the evolution of glacier length. <i>Geomorphology</i> , 2012, 179, 269-285.	1.1	45
14	The annual glaciohydrology cycle in the ablation zone of the Greenland ice sheet: Part 2. Observed and modeled ice flow. <i>Journal of Glaciology</i> , 2012, 58, 51-64.	1.1	27
15	Solving a conundrum of a steady-state hilltop with variable soil depths and production rates, Bodmin Moor, UK. <i>Geomorphology</i> , 2011, 128, 73-84.	1.1	34
16	The use of ablation-dominated medial moraines as samplers for ¹⁰ Be-derived erosion rates of glacier valley walls, Kichatna Mountains, AK. <i>Earth Surface Processes and Landforms</i> , 2011, 36, 495-512.	1.2	27
17	Reconstructing the Glacial History of Green Lakes Valley, North Boulder Creek, Colorado Front Range. <i>Arctic, Antarctic, and Alpine Research</i> , 2011, 43, 527-542.	0.4	33
18	Does climate change create distinctive patterns of landscape incision?. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	77

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19	Twentieth-century Changes in the Thickness and Extent of Arapaho Glacier, Front Range, Colorado. <i>Arctic, Antarctic, and Alpine Research</i> , 2010, 42, 198-209.	0.4	6
20	Numerical and analytical models of cosmogenic radionuclide dynamics in landslide-dominated drainage basins. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	137
21	Response of glacier basal motion to transient water storage. <i>Nature Geoscience</i> , 2008, 1, 33-37.	5.4	223
22	Modeling the evolution of channel shape: Balancing computational efficiency with hydraulic fidelity. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	35
23	Pacing the post-Last Glacial Maximum demise of the Animas Valley glacier and the San Juan Mountain ice cap, Colorado. <i>Geology</i> , 2007, 35, 739.	2.0	49
24	Impact of rock uplift on rates of late Cenozoic Rocky Mountain river incision. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	19
25	Glaciers Dominate Eustatic Sea-Level Rise in the 21st Century. <i>Science</i> , 2007, 317, 1064-1067.	6.0	570
26	Tectonics, fracturing of rock, and erosion. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	228
27	Relationships among probability distributions of stream discharges in floods, climate, bed load transport, and river incision. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	137
28	Features of glacial valley profiles simply explained. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	163
29	Self-formed bedrock channels. <i>Geophysical Research Letters</i> , 2006, 33, n/a-n/a.	1.5	95
30	Longevity and progressive abandonment of the Rocky Flats surface, Front Range, Colorado. <i>Geomorphology</i> , 2006, 78, 265-278.	1.1	20
31	Fluvial erosion of physically modeled abrasion-dominated slot canyons. <i>Geomorphology</i> , 2006, 81, 89-113.	1.1	22
32	Local response of a glacier to annual filling and drainage of an ice-marginal lake. <i>Journal of Glaciology</i> , 2006, 52, 440-450.	1.1	35
33	Facing reality: Late Cenozoic evolution of smooth peaks, glacially ornamented valleys, and deep river gorges of Colorado's Front Range. , 2006, , .		41
34	Spatial and temporal evolution of rapid basal sliding on Bench Glacier, Alaska, USA. <i>Journal of Glaciology</i> , 2005, 51, 49-63.	1.1	35
35	The dynamic response of Kennicott Glacier, Alaska, USA, to the Hidden Creek Lake outburst flood. <i>Annals of Glaciology</i> , 2005, 40, 237-242.	2.8	36
36	Rates of erosion and topographic evolution of the Sierra Nevada, California, inferred from cosmogenic ²⁶ Al and ¹⁰ Be concentrations. <i>Earth Surface Processes and Landforms</i> , 2005, 30, 985-1006.	1.2	77

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37	Comparison of U ²³⁵ Th, paleomagnetism, and cosmogenic burial methods for dating caves: Implications for landscape evolution studies. <i>Earth and Planetary Science Letters</i> , 2005, 236, 388-403.	1.8	78
38	Testing a numerical glacial hydrological model using spring speed-up events and outburst floods. <i>Geophysical Research Letters</i> , 2004, 31, .	1.5	44
39	Pace of landscape evolution in the Sierra Nevada, California, revealed by cosmogenic dating of cave sediments. <i>Geology</i> , 2004, 32, 193.	2.0	142
40	Modeling the tor-dotted crests, bedrock edges, and parabolic profiles of high alpine surfaces of the Wind River Range, Wyoming. <i>Geomorphology</i> , 2002, 46, 35-58.	1.1	203
41	Numerical modeling of fluvial strath-terrace formation in response to oscillating climate. <i>Bulletin of the Geological Society of America</i> , 2002, 114, 1131-1142.	1.6	382
42	Dating fluvial terraces with and profiles: application to the Wind River, Wyoming. <i>Geomorphology</i> , 1999, 27, 41-60.	1.1	167
43	Estimates of the rate of regolith production using and from an alpine hillslope. <i>Geomorphology</i> , 1999, 27, 131-150.	1.1	247
44	Beyond power: Bedrock river incision process and form. <i>Geophysical Monograph Series</i> , 1998, , 35-60.	0.1	141
45	Landsliding and the evolution of normal-fault-bounded mountains. <i>Journal of Geophysical Research</i> , 1998, 103, 15203-15219.	3.3	214
46	Pleistocene relief production in Laramide mountain ranges, western United States. <i>Geology</i> , 1998, 26, 123.	2.0	180
47	Erosion rates of alpine bedrock summit surfaces deduced from in situ 10Be and 26Al. <i>Earth and Planetary Science Letters</i> , 1997, 150, 413-425.	1.8	223
48	Cosmogenic dating of fluvial terraces, Fremont River, Utah. <i>Earth and Planetary Science Letters</i> , 1997, 152, 59-73.	1.8	183
49	Measurement of tectonic surface uplift rate in a young collisional mountain belt. <i>Nature</i> , 1997, 385, 501-507.	13.7	100
50	Bedrock incision, rock uplift and threshold hillslopes in the northwestern Himalayas. <i>Nature</i> , 1996, 379, 505-510.	13.7	986
51	Explicit treatment of inheritance in dating depositional surfaces using in situ 10Be and 26Al. <i>Geology</i> , 1996, 24, 47.	2.0	292
52	Experimental verification of aeolian saltation and lee side deposition models. <i>Sedimentology</i> , 1995, 42, 39-56.	1.6	41
53	Hillslope and channel evolution in a marine terraced landscape, Santa Cruz, California. <i>Journal of Geophysical Research</i> , 1994, 99, 14013-14029.	3.3	274
54	Grain size segregation and stratigraphy in aeolian ripples modelled with a cellular automaton. <i>Nature</i> , 1993, 365, 740-743.	13.7	107

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55	Grain scale simulations of loose sedimentary beds: the example of grain-bed impacts in aeolian saltation. <i>Sedimentology</i> , 1993, 40, 175-198.	1.6	104
56	Saltation of sand: a qualitative review with biological analogy. <i>Proceedings of the Royal Society of Edinburgh Section B Biological Sciences</i> , 1989, 96, 149-165.	0.2	7
57	The pattern of grainfall deposition in the lee of aeolian dunes. <i>Sedimentology</i> , 1988, 35, 175-188.	1.6	82
58	A theoretical model for aeolian impact ripples. <i>Sedimentology</i> , 1987, 34, 943-956.	1.6	179
59	Sediment transport by wind: Toward a general model. <i>Bulletin of the Geological Society of America</i> , 1986, 97, 523.	1.6	235