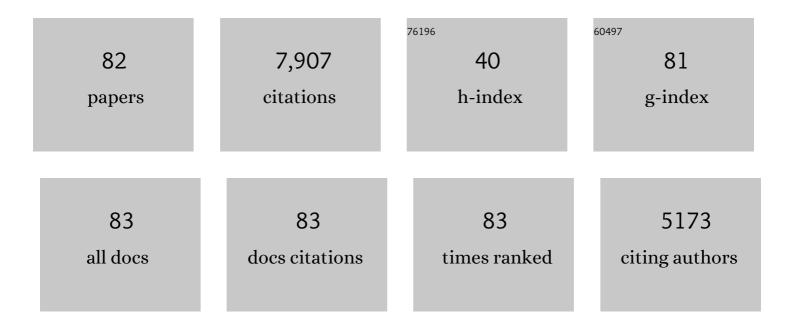
Robert Anderson

List of Publications by Year in descending order

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Version: 2024-02-01



#	Article	IF	CITATIONS
1	Alpine rock glacier activity over Holocene to modern timescales (western French Alps). Earth Surface Dynamics, 2022, 10, 605-633.	1.0	5
2	Toward Entrainment Thresholds in Fluvial Plucking. Journal of Geophysical Research F: Earth Surface, 2021, 126, e2020JF005944.	1.0	6
3	The Causes of Debris-Covered Glacier Thinning: Evidence for the Importance of Ice Dynamics From Kennicott Glacier, Alaska. Frontiers in Earth Science, 2021, 9, .	0.8	14
4	Modeling Aspectâ€Controlled Evolution of Ground Thermal Regimes on Montane Hillslopes. Journal of Geophysical Research F: Earth Surface, 2021, 126, e2021JF006126.	1.0	3
5	Debris cover and the thinning of Kennicott Glacier, Alaska: in situ measurements, automated ice cliff delineation and distributed melt estimates. Cryosphere, 2021, 15, 265-282.	1.5	31
6	Orographic Controls on Subdaily Rainfall Statistics and Flood Frequency in the Colorado Front Range, USA. Geophysical Research Letters, 2020, 47, e2019GL085086.	1.5	10
7	Glacier expansion on Baffin Island during early Holocene cold reversals. Quaternary Science Reviews, 2020, 241, 106419.	1.4	9
8	Ice-marginal lake hydrology and the seasonal dynamical evolution of Kennicott Glacier, Alaska. Journal of Glaciology, 2020, 66, 699-713.	1.1	10
9	Canyon shape and erosion dynamics governed by channel-hillslope feedbacks. Geology, 2019, 47, 650-654.	2.0	30
10	The evolution of snow bedforms in the Colorado Front Range and the processes that shape them. Cryosphere, 2019, 13, 1267-1281.	1.5	6
11	The Mississippi River records glacial-isostatic deformation of North America. Science Advances, 2019, 5, eaav2366.	4.7	12
12	Climate driven coevolution of weathering profiles and hillslope topography generates dramatic differences in critical zone architecture. Hydrological Processes, 2019, 33, 4-19.	1.1	35
13	Strong variation in weathering of layered rock maintains hillslopeâ€scale strength under high precipitation. Earth Surface Processes and Landforms, 2018, 43, 1183-1194.	1.2	13
14	Debris thickness patterns on debris-covered glaciers. Geomorphology, 2018, 311, 1-12.	1.1	56
15	Glaciation of alpine valleys: The glacier – debris-covered glacier – rock glacier continuum. Geomorphology, 2018, 311, 127-142.	1.1	105
16	Quasi‧teady Evolution of Hillslopes in Layered Landscapes: An Analytic Approach. Journal of Geophysical Research F: Earth Surface, 2018, 123, 26-45.	1.0	16
17	Glacial Erosion Driven by Variations in Meltwater Drainage. Journal of Geophysical Research F: Earth Surface, 2018, 123, 2863-2877.	1.0	31
18	Statistical Classification of Selfâ€Organized Snow Surfaces. Geophysical Research Letters, 2018, 45, 6532-6541	1.5	12

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19	Block-controlled hillslope form and persistence of topography in rocky landscapes. Geology, 2017, 45, 311-314.	2.0	34
20	Characterizing the transient geomorphic response to baseâ€level fall in the northeastern Tibetan Plateau. Journal of Geophysical Research F: Earth Surface, 2017, 122, 546-572.	1.0	36
21	Spatial Patterns of Summer Speedup on South Central Alaska Glaciers. Geophysical Research Letters, 2017, 44, 9379-9388.	1.5	21
22	Interpreting exposure ages from ice ored moraines: a Neoglacial case study on Baffin Island, Arctic Canada. Journal of Quaternary Science, 2017, 32, 1049-1062.	1.1	28
23	Dating of river terraces along Lefthand Creek, western High Plains, Colorado, reveals punctuated incision. Geomorphology, 2017, 295, 176-190.	1.1	18
24	Modeling debris-covered glaciers: response to steady debris deposition. Cryosphere, 2016, 10, 1105-1124.	1.5	100
25	Hillslopeâ€derived blocks retard river incision. Geophysical Research Letters, 2016, 43, 5070-5078.	1.5	72
26	Modeling the WorldView-derived seasonal velocity evolution of Kennicott Glacier, Alaska. Journal of Glaciology, 2016, 62, 763-777.	1.1	20
27	Assessing the effect of a major storm on 10BE concentrations and inferred basin-averaged denudation rates. Quaternary Geochronology, 2016, 34, 58-68.	0.6	19
28	Particle trajectories on hillslopes: Implications for particle age and ¹⁰ Be structure. Journal of Geophysical Research F: Earth Surface, 2015, 120, 1626-1644.	1.0	25
29	Interpreting climateâ€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.	1.0	13
30	Hillslope lowering rates and mobile-regolith residence times from in situ and meteoric ¹⁰ Be analysis, Boulder Creek Critical Zone Observatory, Colorado. Bulletin of the Geological Society of America, 2015, 127, 862-878.	1.6	32
31	Exhumation by debris flows in the 2013 Colorado Front Range storm. Geology, 2015, 43, 391-394.	2.0	62
32	Evidence for climatic and hillslopeâ€aspect controls on vadose zone hydrology and implications for saprolite weathering. Earth Surface Processes and Landforms, 2015, 40, 1254-1269.	1.2	33
33	Pinched topography initiates the critical zone. Science, 2015, 350, 506-507.	6.0	14
34	Tree root mounds and their role in transporting soil on forested landscapes. Earth Surface Processes and Landforms, 2014, 39, 711-722.	1.2	21
35	Evolution of lumpy glacial landscapes. Geology, 2014, 42, 679-682.	2.0	33
36	Pleistocene drainage reorganization driven by the isostatic response to deep incision into the northeastern Tibetan Plateau. Geology, 2014, 42, 303-306.	2.0	49

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37	Aspect control of water movement on hillslopes near the rain–snow transition of the Colorado Front Range. Hydrological Processes, 2014, 28, 74-85.	1.1	97
38	Gradual demise of a thin southern Laurentide ice sheet recorded by Mississippi drainage. Nature, 2013, 502, 668-671.	13.7	70
39	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.	1.2	189
40	Scaling the Teflon Peaks: Rock type and the generation of extreme relief in the glaciated western Alaska Range. Journal of Geophysical Research, 2012, 117, .	3.3	30
41	Unsteady late Pleistocene incision of streams bounding the Colorado Front Range from measurements of meteoric and in situ ¹⁰ Be. Journal of Geophysical Research, 2012, 117, .	3.3	22
42	Landscape scale linkages in critical zone evolution. Comptes Rendus - Geoscience, 2012, 344, 586-596.	0.4	47
43	Far-flung moraines: Exploring the feedback of glacial erosion on the evolution of glacier length. Geomorphology, 2012, 179, 269-285.	1.1	45
44	The annual glaciohydrology cycle in the ablation zone of the Greenland ice sheet: Part 2. Observed and modeled ice flow. Journal of Glaciology, 2012, 58, 51-64.	1.1	27
45	Exploring weathering and regolith transport controls on Critical Zone development with models and natural experiments. Applied Geochemistry, 2011, 26, S3-S5.	1.4	25
46	Solving a conundrum of a steady-state hilltop with variable soil depths and production rates, Bodmin Moor, UK. Geomorphology, 2011, 128, 73-84.	1.1	34
47	Growth and collapse of the distributed subglacial hydrologic system of Kennicott Glacier, Alaska, USA, and its effects on basal motion. Journal of Glaciology, 2011, 57, 985-1002.	1.1	75
48	The use of ablationâ€dominated medial moraines as samplers for ¹⁰ Beâ€derived erosion rates of glacier valley walls, Kichatna Mountains, AK. Earth Surface Processes and Landforms, 2011, 36, 495-512.	1.2	27
49	Sediment dynamics below retreating cliffs. Earth Surface Processes and Landforms, 2011, 36, 1023-1043.	1.2	29
50	Bedrock fracture control of glacial erosion processes and rates. Geology, 2010, 38, 423-426.	2.0	150
51	Integrated research on mountain glaciers: Current status, priorities and future prospects. Geomorphology, 2009, 103, 158-171.	1.1	55
52	Numerical modeling of glacial erosion and headwall processes in alpine valleys. Geomorphology, 2009, 103, 189-204.	1.1	108
53	Numerical modeling of cosmogenic deglaciation records, Front Range and San Juan mountains, Colorado. Journal of Geophysical Research, 2009, 114, .	3.3	35
54	Numerical and analytical models of cosmogenic radionuclide dynamics in landslideâ€dominated drainage basins. Journal of Geophysical Research, 2009, 114, .	3.3	137

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55	Response of glacier basal motion to transient water storage. Nature Geoscience, 2008, 1, 33-37.	5.4	223
56	Fjord insertion into continental margins driven by topographic steering of ice. Nature Geoscience, 2008, 1, 365-369.	5.4	151
57	Impact of rock uplift on rates of late Cenozoic Rocky Mountain river incision. Journal of Geophysical Research, 2007, 112, .	3.3	19
58	Modeling of knickpoint retreat on the Roan Plateau, western Colorado. Journal of Geophysical Research, 2007, 112, .	3.3	204
59	Tectonics, fracturing of rock, and erosion. Journal of Geophysical Research, 2007, 112, .	3.3	228
60	Relationships among probability distributions of stream discharges in floods, climate, bed load transport, and river incision. Journal of Geophysical Research, 2006, 111, .	3.3	137
61	Features of glacial valley profiles simply explained. Journal of Geophysical Research, 2006, 111, .	3.3	163
62	Modeling topographic and climatic control of east-west asymmetry in Sierra Nevada glacier length during the Last Glacial Maximum. Journal of Geophysical Research, 2006, 111, .	3.3	83
63	Self-formed bedrock channels. Geophysical Research Letters, 2006, 33, n/a-n/a.	1.5	95
64	Longevity and progressive abandonment of the Rocky Flats surface, Front Range, Colorado. Geomorphology, 2006, 78, 265-278.	1.1	20
65	Facing reality: Late Cenozoic evolution of smooth peaks, glacially ornamented valleys, and deep river gorges of Colorado's Front Range. , 2006, , .		41
66	Spatial and temporal evolution of rapid basal sliding on Bench Glacier, Alaska, USA. Journal of Glaciology, 2005, 51, 49-63.	1.1	35
67	Testing a numerical glacial hydrological model using spring speed-up events and outburst floods. Geophysical Research Letters, 2004, 31, .	1.5	44
68	Strong feedbacks between hydrology and sliding of a small alpine glacier. Journal of Geophysical Research, 2004, 109, .	3.3	127
69	Pace of landscape evolution in the Sierra Nevada, California, revealed by cosmogenic dating of cave sediments. Geology, 2004, 32, 193.	2.0	142
70	Integrated hydrologic and hydrochemical observations of Hidden Creek Lake jökulhlaups, Kennicott Glacier, Alaska. Journal of Geophysical Research, 2003, 108, n/a-n/a.	3.3	47
71	Modeling the tor-dotted crests, bedrock edges, and parabolic profiles of high alpine surfaces of the Wind River Range, Wyoming. Geomorphology, 2002, 46, 35-58.	1.1	203
72	Numerical modeling of fluvial strath-terrace formation in response to oscillating climate. Bulletin of the Geological Society of America, 2002, 114, 1131-1142.	1.6	382

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73	A model of ablation-dominated medial moraines and the generation of debris-mantled glacier snouts. Journal of Glaciology, 2000, 46, 459-469.	1.1	83
74	River incision into bedrock: Mechanics and relative efficacy of plucking, abrasion, and cavitation. Bulletin of the Geological Society of America, 2000, 112, 490-503.	1.6	577
75	Dating fluvial terraces with and profiles: application to the Wind River, Wyoming. Geomorphology, 1999, 27, 41-60.	1.1	167
76	Estimates of the rate of regolith production using and from an alpine hillslope. Geomorphology, 1999, 27, 131-150.	1.1	247
77	Beyond power: Bedrock river incision process and form. Geophysical Monograph Series, 1998, , 35-60.	0.1	141
78	Bedrock incision, rock uplift and threshold hillslopes in the northwestern Himalayas. Nature, 1996, 379, 505-510.	13.7	986
79	Explicit treatment of inheritance in dating depositional surfaces using in situ 10Be and 26Al. Geology, 1996, 24, 47.	2.0	292
80	Hillslope and channel evolution in a marine terraced landscape, Santa Cruz, California. Journal of Geophysical Research, 1994, 99, 14013-14029.	3.3	274
81	Grain scale simulations of loose sedimentary beds: the example of grain-bed impacts in aeolian saltation. Sedimentology, 1993, 40, 175-198.	1.6	104
82	Simulation of Eolian Saltation. Science, 1988, 241, 820-823.	6.0	456