

Greg Balco

List of Publications by Year in descending order

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76
papers

6,452
citations

186265

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74163

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78
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docs citations

78
times ranked

4878
citing authors

#	ARTICLE	IF	CITATIONS
1	Tectonic controls on the timing of fjord incision at the Antarctic Peninsula. <i>Earth and Planetary Science Letters</i> , 2022, 585, 117528.	4.4	2
2	Review article: Existing and potential evidence for Holocene grounding line retreat and readvance in Antarctica. <i>Cryosphere</i> , 2022, 16, 1543-1562.	3.9	16
3	Relative sea-level data preclude major late Holocene ice-mass change in Pine Island Bay. <i>Nature Geoscience</i> , 2022, 15, 568-572.	12.9	12
4	Cosmogenic nuclide and solute flux data from central Cuban rivers emphasize the importance of both physical and chemical mass loss from tropical landscapes. <i>Geochronology</i> , 2022, 4, 435-453.	2.5	3
5	Cosmogenic nuclide dating of two stacked ice masses: Ong Valley, Antarctica. <i>Cryosphere</i> , 2022, 16, 2793-2817.	3.9	5
6	Exposure-age data from across Antarctica reveal mid-Miocene establishment of polar desert climate. <i>Geology</i> , 2021, 49, 91-95.	4.4	12
7	Atmospherically produced beryllium-10 in annually laminated late-glacial sediments of the North American Varve Chronology. <i>Geochronology</i> , 2021, 3, 1-33.	2.5	2
8	Empirical Evidence for Latitude and Altitude Variation of the In Situ Cosmogenic $^{26}\text{Al}/^{10}\text{Be}$ Production Ratio. <i>Geosciences (Switzerland)</i> , 2021, 11, 402.	2.2	10
9	Mid-Holocene thinning of David Glacier, Antarctica: chronology and controls. <i>Cryosphere</i> , 2021, 15, 5447-5471.	3.9	8
10	Glacier Change and Paleoclimate Applications of Cosmogenic-Nuclide Exposure Dating. <i>Annual Review of Earth and Planetary Sciences</i> , 2020, 48, 21-48.	11.0	59
11	Miocene to Pleistocene glacial history of West Antarctica inferred from Nunatak geomorphology and cosmogenic-nuclide measurements on bedrock surfaces. <i>Numerische Mathematik</i> , 2020, 320, 637-676.	1.4	1
12	Detrital Thermochronometry Reveals That the Topography Along the Antarctic Peninsula is Not a Pleistocene Landscape. <i>Journal of Geophysical Research F: Earth Surface</i> , 2020, 125, e2019JF005447.	2.8	8
13	Early-to-mid Miocene erosion rates inferred from pre-Dead Sea rift Hazeva River fluvial chert pebbles using cosmogenic ^{10}Be and ^{21}Ne . <i>Earth Surface Dynamics</i> , 2020, 8, 289-301.	2.4	4
14	Technical note: A prototype transparent-middle-layer data management and analysis infrastructure for cosmogenic-nuclide exposure dating. <i>Geochronology</i> , 2020, 2, 169-175.	2.5	20
15	A 14.5-million-year record of East Antarctic Ice Sheet fluctuations from the central Transantarctic Mountains, constrained with cosmogenic ^{3}He , ^{10}Be , ^{21}Ne , and ^{26}Al . <i>Cryosphere</i> , 2020, 14, 2647-2672.	3.9	25
16	Improving West Antarctic ice sheet reconstructions from compiling local GPR observations. , 2020, , .		0
17	Late-glacial grounding line retreat in the northern Ross Sea, Antarctica. <i>Geology</i> , 2019, 47, 291-294.	4.4	25
18	Glacial geology and cosmogenic-nuclide exposure ages from the Tucker Glacier - Whitehall Glacier confluence, northern Victoria Land, Antarctica. <i>Numerische Mathematik</i> , 2019, 319, 255-286.	1.4	9

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19	Abrupt mid-Holocene ice loss in the western Weddell Sea Embayment of Antarctica. <i>Earth and Planetary Science Letters</i> , 2019, 518, 127-135.	4.4	20
20	Cosmogenic and nucleogenic ^{21}Ne in quartz in a 28-meter sandstone core from the McMurdo Dry Valleys, Antarctica. <i>Quaternary Geochronology</i> , 2019, 52, 63-76.	1.4	15
21	Glacial chronology and slip rate on the west Klamath Lake fault zone, Oregon. <i>Bulletin of the Geological Society of America</i> , 2019, 131, 444-460.	3.3	7
22	New Last Glacial Maximum ice thickness constraints for the Weddell Sea Embayment, Antarctica. <i>Cryosphere</i> , 2019, 13, 2935-2951.	3.9	24
23	Chlorine-36 and beryllium-10 burial dating of alluvial fan sediments associated with the Mission Creek strand of the San Andreas Fault system, California, USA. <i>Geochronology</i> , 2019, 1, 1-16.	2.5	5
24	Late Quaternary deglacial history across the Larsen B embayment, Antarctica. <i>Quaternary Science Reviews</i> , 2018, 189, 134-148.	3.0	22
25	Deglaciation and late-glacial climate change in the White Mountains, New Hampshire, USA. <i>Quaternary Research</i> , 2017, 87, 96-120.	1.7	15
26	Neon diffusion kinetics and implications for cosmogenic neon paleothermometry in feldspars. <i>Geochimica Et Cosmochimica Acta</i> , 2017, 205, 14-30.	3.9	3
27	Production rate calculations for cosmic-ray-muon-produced ^{10}Be and ^{26}Al benchmarked against geological calibration data. <i>Quaternary Geochronology</i> , 2017, 39, 150-173.	1.4	121
28	Stratigraphy, paleomagnetism, and cosmogenic-isotope burial ages of fossil-bearing strata within Riverbluff Cave, Greene County, Missouri. <i>Quaternary Research</i> , 2017, 87, 516-528.	1.7	1
29	Million year old ice found under meter thick debris layer in Antarctica. <i>Geophysical Research Letters</i> , 2016, 43, 6995-7001.	4.0	20
30	Greenland was nearly ice-free for extended periods during the Pleistocene. <i>Nature</i> , 2016, 540, 252-255.	27.8	95
31	Geological calibration of spallation production rates in the CRONUS-Earth project. <i>Quaternary Geochronology</i> , 2016, 31, 188-198.	1.4	503
32	The CRONUS-Earth Project: A synthesis. <i>Quaternary Geochronology</i> , 2016, 31, 119-154.	1.4	138
33	Performance of CRONUS-P Fe^{57} A pyroxene reference material for helium isotope analysis. <i>Quaternary Geochronology</i> , 2016, 31, 237-239.	1.4	6
34	Cosmogenic nuclide systematics and the CRONUScalc program. <i>Quaternary Geochronology</i> , 2016, 31, 160-187.	1.4	246
35	Geology of Unaweep Canyon and its role in the drainage evolution of the northern Colorado Plateau. <i>Geology</i> , 2015, 11, 320-341.		10
36	The absence of evidence of absence of the East Antarctic Ice Sheet. <i>Geology</i> , 2015, 43, 943-944.	4.4	5

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37	Rate of fluvial incision in the Central Alps constrained through joint inversion of detrital ^{10}Be and thermochronometric data. <i>Earth and Planetary Science Letters</i> , 2015, 411, 27-36.	4.4	23
38	Interlaboratory comparison of cosmogenic ^{21}Ne in quartz. <i>Quaternary Geochronology</i> , 2015, 26, 20-28.	1.4	44
39	Paleoclimatic interpretations of buried paleosols within the pre-Illinoian till sequence in northern Missouri, USA. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2015, 417, 44-56.	2.3	10
40	Boulder weathering in McMurdo Dry Valleys, Antarctica. <i>Geomorphology</i> , 2014, 219, 192-199.	2.6	5
41	Cosmogenic noble gas paleothermometry. <i>Earth and Planetary Science Letters</i> , 2014, 400, 195-205.	4.4	25
42	Diffusion kinetics of ^3He and ^{21}Ne in quartz and implications for cosmogenic noble gas paleothermometry. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 142, 186-204.	3.9	26
43	Simple computer code for estimating cosmic-ray shielding by oddly shaped objects. <i>Quaternary Geochronology</i> , 2014, 22, 175-182.	1.4	15
44	Basins and bedrock: Spatial variation in ^{10}Be erosion rates and increasing relief in the southern Rocky Mountains, USA. <i>Geology</i> , 2014, 42, 167-170.	4.4	27
45	Features of the glacial history of the Transantarctic Mountains inferred from cosmogenic ^{26}Al , ^{10}Be and ^{21}Ne concentrations in bedrock surfaces. <i>Antarctic Science</i> , 2014, 26, 708-723.	0.9	27
46	Exposure-age record of Holocene ice sheet and ice shelf change in the northeast Antarctic Peninsula. <i>Quaternary Science Reviews</i> , 2013, 59, 101-111.	3.0	45
47	Cosmogenic-nuclide burial ages for Pleistocene sedimentary fill in Unaweep Canyon, Colorado, USA. <i>Quaternary Geochronology</i> , 2013, 18, 149-157.	1.4	54
48	Active erosion and deposition cycles in the hyperarid Atacama Desert of Northern Chile. <i>Earth and Planetary Science Letters</i> , 2013, 371-372, 125-133.	4.4	32
49	Radar-detected englacial stratigraphy in the Pensacola Mountains, Antarctica: implications for recent changes in ice flow and accumulation. <i>Annals of Glaciology</i> , 2013, 54, 91-100.	1.4	13
50	Cosmogenic ^3He in hematite and goethite from Brazilian ecanga duricrust demonstrates the extreme stability of these surfaces. <i>Earth and Planetary Science Letters</i> , 2012, 329-330, 41-50.	4.4	60
51	Neon diffusion kinetics in olivine, pyroxene and feldspar: Retentivity of cosmogenic and nucleogenic neon. <i>Geochimica Et Cosmochimica Acta</i> , 2012, 86, 21-36.	3.9	17
52	Regolith transport quantified by braking block, McMurdo Dry Valleys, Antarctica. <i>Geomorphology</i> , 2012, 155-156, 80-87.	2.6	7
53	Thermochronometry Reveals Headward Propagation of Erosion in an Alpine Landscape. <i>Science</i> , 2011, 332, 84-88.	12.6	90
54	Response to the comment by W.H. Schwarz et al. on "Joint determination of ^{40}K decay constants and $^{40}\text{Ar}/^{40}\text{K}$ for the Fish Canyon sanidine standard, and improved accuracy for $^{40}\text{Ar}/^{39}\text{Ar}$ geochronology" by P.R. Renne et al. (2010). <i>Geochimica Et Cosmochimica Acta</i> , 2011, 75, 5097-5100.	3.9	542

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55	Contributions and unrealized potential contributions of cosmogenic-nuclide exposure dating to glacier chronology, 1990–2010. <i>Quaternary Science Reviews</i> , 2011, 30, 3-27.	3.0	307
56	Exposure dating of precariously balanced rocks. <i>Quaternary Geochronology</i> , 2011, 6, 295-303.	1.4	27
57	Summary of Early and Middle Pleistocene Glaciations in Northern Missouri, USA. <i>Developments in Quaternary Sciences</i> , 2011, 15, 553-561.	0.1	9
58	Degradation of glacial deposits quantified with cosmogenic nuclides, Quartermain Mountains, Antarctica. <i>Earth Surface Processes and Landforms</i> , 2011, 36, 217-228.	2.5	22
59	Periglacial Climate at the 2.5 Ma Onset of Northern Hemisphere Glaciation Inferred from the Whippoorwill Formation, Northern Missouri, USA. <i>Quaternary Research</i> , 2010, 73, 151-161.	1.7	10
60	Absolute chronology for major Pleistocene advances of the Laurentide Ice Sheet. <i>Geology</i> , 2010, 38, 795-798.	4.4	136
61	Quantifying regolith erosion rates with cosmogenic nuclides ^{10}Be and ^{26}Al in the McMurdo Dry Valleys, Antarctica. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	13
62	Joint determination of ^{40}K decay constants and $^{40}\text{Ar}/^{40}\text{K}$ for the Fish Canyon sanidine standard, and improved accuracy for $^{40}\text{Ar}/^{39}\text{Ar}$ geochronology. <i>Geochimica Et Cosmochimica Acta</i> , 2010, 74, 5349-5367.	3.9	717
63	A record of impacts preserved in the lunar regolith. <i>Earth and Planetary Science Letters</i> , 2010, 290, 155-165.	4.4	51
64	Canyon incision and knickpoint propagation recorded by apatite $^{4}\text{He}/^{3}\text{He}$ thermochronometry. <i>Earth and Planetary Science Letters</i> , 2010, 293, 377-387.	4.4	61
65	A reevaluation of in situ cosmogenic ^3He production rates. <i>Quaternary Geochronology</i> , 2010, 5, 410-418.	1.4	105
66	Production rate of cosmogenic ^{21}Ne in quartz estimated from ^{10}Be , ^{26}Al , and ^{21}Ne concentrations in slowly eroding Antarctic bedrock surfaces. <i>Earth and Planetary Science Letters</i> , 2009, 281, 48-58.	4.4	74
67	$^{26}\text{Al}/^{10}\text{Be}/^{21}\text{Ne}$ burial dating. <i>Earth and Planetary Science Letters</i> , 2009, 286, 570-575.	4.4	68
68	Regional beryllium-10 production rate calibration for late-glacial northeastern North America. <i>Quaternary Geochronology</i> , 2009, 4, 93-107.	1.4	323
69	The Geographic Footprint of Glacier Change. <i>Science</i> , 2009, 324, 599-600.	12.6	10
70	Slow regolith degradation without creep determined by cosmogenic nuclide measurements in Arena Valley, Antarctica. <i>Quaternary Research</i> , 2008, 69, 242-249.	1.7	28
71	A complete and easily accessible means of calculating surface exposure ages or erosion rates from ^{10}Be and ^{26}Al measurements. <i>Quaternary Geochronology</i> , 2008, 3, 174-195.	1.4	1,613
72	Measuring middle Pleistocene erosion rates with cosmic-ray-produced nuclides in buried alluvial sediment, Fisher Valley, southeastern Utah. <i>Earth Surface Processes and Landforms</i> , 2005, 30, 1051-1067.	2.5	34

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73	The First Glacial Maximum in North America. <i>Science</i> , 2005, 307, 222-222.	12.6	88
74	Selective glacial erosion and weathering zones in the coastal mountains of Marie Byrd Land, Antarctica. <i>Geomorphology</i> , 2005, 67, 317-334.	2.6	108
75	Numerical ages for Plio-Pleistocene glacial sediment sequences by $^{26}\text{Al}/^{10}\text{Be}$ dating of quartz in buried paleosols. <i>Earth and Planetary Science Letters</i> , 2005, 232, 179-191.	4.4	40
76	Cosmogenic-nuclide ages for New England coastal moraines, Martha's Vineyard and Cape Cod, Massachusetts, USA. <i>Quaternary Science Reviews</i> , 2002, 21, 2127-2135.	3.0	68