

David E Sugden

List of Publications by Year in descending order

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73
papers

3,756
citations

126708

33
h-index

128067

60
g-index

76
all docs

76
docs citations

76
times ranked

2731
citing authors

#	ARTICLE	IF	CITATIONS
1	Holocene Deglaciation of Marie Byrd Land, West Antarctica. <i>Science</i> , 2003, 299, 99-102.	6.0	232
2	A community-based geological reconstruction of Antarctic Ice Sheet deglaciation since the Last Glacial Maximum. <i>Quaternary Science Reviews</i> , 2014, 100, 1-9.	1.4	228
3	Preservation of Miocene glacier ice in East Antarctica. <i>Nature</i> , 1995, 376, 412-414.	13.7	225
4	The Patagonian Icefields: A Glaciological Review. <i>Arctic and Alpine Research</i> , 1993, 25, 316.	1.3	159
5	The Gamburtsev mountains and the origin and early evolution of the Antarctic Ice Sheet. <i>Nature</i> , 2009, 459, 690-693.	13.7	150
6	Cosmogenic ¹⁰ Be and ²⁶ Al exposure ages of tors and erratics, Cairngorm Mountains, Scotland: Timescales for the development of a classic landscape of selective linear glacial erosion. <i>Geomorphology</i> , 2006, 73, 222-245.	1.1	141
7	Deglacial history of the West Antarctic Ice Sheet in the Weddell Sea embayment: Constraints on past ice volume change. <i>Geology</i> , 2010, 38, 411-414.	2.0	138
8	Geochemical stability of fine-grained silicic Holocene tephra in Iceland and Scotland. <i>Journal of Quaternary Science</i> , 1992, 7, 173-183.	1.1	130
9	Cenozoic landscape evolution of the Convoy Range to Mackay Glacier area, Transantarctic Mountains: Onshore to offshore synthesis. <i>Bulletin of the Geological Society of America</i> , 2004, 116, 840.	1.6	124
10	The chronology of the Last Glacial Maximum and deglacial events in central Argentine Patagonia. <i>Quaternary Science Reviews</i> , 2010, 29, 1212-1227.	1.4	123
11	Glacier Modeling and the Climate of Patagonia during the Last Glacial Maximum. <i>Quaternary Research</i> , 1994, 42, 1-19.	1.0	115
12	The evolution of the subglacial landscape of Antarctica. <i>Earth and Planetary Science Letters</i> , 2010, 293, 1-27.	1.8	115
13	Selective glacial erosion and weathering zones in the coastal mountains of Marie Byrd Land, Antarctica. <i>Geomorphology</i> , 2005, 67, 317-334.	1.1	108
14	Landscape evolution of the Dry Valleys, Transantarctic Mountains: Tectonic implications. <i>Journal of Geophysical Research</i> , 1995, 100, 9949-9968.	3.3	103
15	East Antarctic Ice Sheet Sensitivity to Pliocene Climatic Change from a Dry Valleys Perspective. <i>Geografiska Annaler, Series A: Physical Geography</i> , 1993, 75, 155-204.	0.6	101
16	Limited modification of mid-latitude landscapes by ice sheets: The case of northeast Scotland. <i>Earth Surface Processes and Landforms</i> , 1987, 12, 531-542.	1.2	98
17	East Antarctic Ice Sheet Sensitivity to Pliocene Climatic Change from a Dry Valleys Perspective. <i>Geografiska Annaler, Series A: Physical Geography</i> , 1993, 75, 155.	0.6	96
18	Late-Glacial and Holocene Glacier Fluctuations and Environmental Change on South Georgia, Southern Ocean. <i>Quaternary Research</i> , 1989, 31, 210-228.	1.0	88

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19	Reconstruction of changes in the Weddell Sea sector of the Antarctic Ice Sheet since the Last Glacial Maximum. <i>Quaternary Science Reviews</i> , 2014, 100, 111-136.	1.4	85
20	Meltwater features that suggest miocene ice sheet overriding of the transantarctic mountains in victoria land, antarctica. <i>Geografiska Annaler, Series A: Physical Geography</i> , 2005, 87, 67-85.	0.6	80
21	Topography and ice sheet growth. <i>Earth Surface Processes and Landforms</i> , 1990, 15, 625-639.	1.2	63
22	Sedimentological characterization of Antarctic moraines using UAVs and Structure-from-Motion photogrammetry. <i>Journal of Glaciology</i> , 2015, 61, 1088-1102.	1.1	60
23	Miocene Glacial Stratigraphy and Landscape Evolution of the Western Asgard Range, Antarctica. <i>Geografiska Annaler, Series A: Physical Geography</i> , 1993, 75, 303-330.	0.6	57
24	Miocene Glacial Stratigraphy and Landscape Evolution of the Western Asgard Range, Antarctica. <i>Geografiska Annaler, Series A: Physical Geography</i> , 1993, 75, 303.	0.6	53
25	Glacial/interglacial ice-stream stability in the Weddell Sea embayment, Antarctica. <i>Earth and Planetary Science Letters</i> , 2011, 307, 211-221.	1.8	50
26	Geological and geomorphological insights into Antarctic ice sheet evolution. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2006, 364, 1607-1625.	1.6	43
27	The Case for a Stable East Antarctic Ice Sheet: The Background. <i>Geografiska Annaler, Series A: Physical Geography</i> , 1993, 75, 151-154.	0.6	40
28	The Case for a Stable East Antarctic Ice Sheet: The Background. <i>Geografiska Annaler, Series A: Physical Geography</i> , 1993, 75, 151.	0.6	40
29	Mid-Holocene pulse of thinning in the Weddell Sea sector of the West Antarctic ice sheet. <i>Nature Communications</i> , 2016, 7, 12511.	5.8	39
30	Ice flow around large obstacles as indicated by basal ice exposed at the margin of the Greenland ice sheet. <i>Journal of Glaciology</i> , 1994, 40, 359-367.	1.1	38
31	Subglacial Meltwater Channel Systems and Ice Sheet Overriding, Asgard Range, Antarctica. <i>Geografiska Annaler, Series A: Physical Geography</i> , 1991, 73, 109-121.	0.6	36
32	Do blue-ice moraines in the Heritage Range show the West Antarctic ice sheet survived the last interglacial?. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2012, 335-336, 61-70.	1.0	36
33	Interannual surface evolution of an Antarctic blue-ice moraine using multi-temporal DEMs. <i>Earth Surface Dynamics</i> , 2016, 4, 515-529.	1.0	35
34	Do the anomalous fluctuations of SÅ³lheimajÃ¶kull reflect ice divide migration?. <i>Boreas</i> , 1991, 20, 105-113.	1.2	34
35	Subglacial Meltwater Channel Systems and Ice Sheet Overriding, Asgard Range, Antarctica. <i>Geografiska Annaler, Series A: Physical Geography</i> , 1991, 73, 109.	0.6	33
36	Evidence for the stability of the West Antarctic Ice Sheet divide for 1.4 million years. <i>Nature Communications</i> , 2016, 7, 10325.	5.8	31

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37	Antarctic ice sheets at risk?. <i>Nature</i> , 1992, 359, 775-776.	13.7	27
38	The million-year evolution of the glacial trimline in the southernmost Ellsworth Mountains, Antarctica. <i>Earth and Planetary Science Letters</i> , 2017, 469, 42-52.	1.8	26
39	Dynamics of mountain ice caps during glacial cycles: the case of Patagonia. <i>Annals of Glaciology</i> , 1997, 24, 81-89.	2.8	24
40	Assessing the continuity of the blue ice climate record at Patriot Hills, Horseshoe Valley, West Antarctica. <i>Geophysical Research Letters</i> , 2016, 43, 2019-2026.	1.5	24
41	Controls on Last Glacial Maximum ice extent in the Weddell Sea embayment, Antarctica. <i>Journal of Geophysical Research F: Earth Surface</i> , 2017, 122, 371-397.	1.0	24
42	Modelling mass balance on former maritime ice caps: a Patagonian example. <i>Annals of Glaciology</i> , 1995, 21, 304-310.	2.8	23
43	Dynamics of mountain ice caps during glacial cycles: the case of Patagonia. <i>Annals of Glaciology</i> , 1997, 24, 81-89.	2.8	22
44	Mass balance, flow and subglacial processes of a modelled Younger Dryas ice cap in Scotland. <i>Journal of Glaciology</i> , 2009, 55, 32-42.	1.1	20
45	An approach to modelling the impact of snow drift on glaciation in the Cairngorm Mountains, Scotland. <i>Journal of Quaternary Science</i> , 1999, 14, 313-321.	1.1	19
46	Climate change and Scotland: recent trends and impacts. <i>Earth and Environmental Science Transactions of the Royal Society of Edinburgh</i> , 2012, 103, 133-147.	0.3	18
47	Major Ice Sheet Change in the Weddell Sea Sector of West Antarctica Over the Last 5,000 Years. <i>Reviews of Geophysics</i> , 2019, 57, 1197-1223.	9.0	18
48	Radar-detected Englacial Debris in the West Antarctic Ice Sheet. <i>Geophysical Research Letters</i> , 2019, 46, 10454-10462.	1.5	18
49	Stable Isotopes and Debris in Basal Glacier Ice, South Georgia, Southern Ocean. <i>Journal of Glaciology</i> , 1987, 33, 324-329.	1.1	17
50	Geological scatter of cosmogenic-nuclide exposure ages in the Shackleton Range, Antarctica: Implications for glacial history. <i>Quaternary Geochronology</i> , 2014, 19, 52-66.	0.6	17
51	Stable Isotopes and Debris in Basal Glacier Ice, South Georgia, Southern Ocean. <i>Journal of Glaciology</i> , 1987, 33, 324-329.	1.1	14
52	Editorial: Linking Short-term Geomorphic Processes to Landscape Evolution. <i>Earth Surface Processes and Landforms</i> , 1997, 22, 193-194.	1.2	13
53	Late readvance and rapid final deglaciation of the last ice sheet in the Grampian Mountains, Scotland. <i>Journal of Quaternary Science</i> , 2016, 31, 869-878.	1.1	13
54	The pre-glacial landscape of Antarctica. <i>Scottish Geographical Journal</i> , 2018, 134, 203-223.	0.4	13

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55	Climate and the Initiation of Maritime Ice Sheets. <i>Annals of Glaciology</i> , 1990, 14, 232-237.	2.8	11
56	James Croll (1821–1890): ice, ice ages and the Antarctic connection. <i>Antarctic Science</i> , 2014, 26, 604-613.	0.5	10
57	Deglacial history of the West Antarctic Ice Sheet in the Weddell Sea embayment: Constraints on past ice volume change: REPLY. <i>Geology</i> , 2011, 39, e240-e240.	2.0	8
58	Testing and application of a model for snow redistribution (Snow_Blow) in the Ellsworth Mountains, Antarctica. <i>Journal of Glaciology</i> , 2019, 65, 957-970.	1.1	8
59	Antarctic blue-ice moraines: Analogue for Northern Hemisphere ice sheets?. <i>Quaternary Science Reviews</i> , 2020, 249, 106620.	1.4	7
60	Ice flow around large obstacles as indicated by basal ice exposed at the margin of the Greenland ice sheet. <i>Journal of Glaciology</i> , 1994, 40, 359-367.	1.1	6
61	Multi-level governance: opportunities and barriers in moving to a low-carbon Scotland. <i>Earth and Environmental Science Transactions of the Royal Society of Edinburgh</i> , 2012, 103, 175-186.	0.3	5
62	Plucking enhanced beneath ice sheet margins: evidence from the Grampian Mountains, Scotland. <i>Geografiska Annaler, Series A: Physical Geography</i> , 2019, 101, 34-44.	0.6	5
63	Blue-ice moraines formation in the Heritage Range, West Antarctica: Implications for ice sheet history and climate reconstruction. <i>Quaternary Science Advances</i> , 2022, 6, 100051.	1.1	4
64	Reflections on the Research Assessment Exercise. <i>Area</i> , 1997, 29, 367-368.	1.0	3
65	Modelling mass balance on former maritime ice caps: a Patagonian example. <i>Annals of Glaciology</i> , 1995, 21, 304-310.	2.8	3
66	Introduction: Facing up to climate change. <i>Earth and Environmental Science Transactions of the Royal Society of Edinburgh</i> , 2012, 103, 123-123.	0.3	2
67	On the thickness of the Antarctic ice, and its relations to that of the glacial epoch. <i>Earth and Environmental Science Transactions of the Royal Society of Edinburgh</i> , 0, , 1-8.	0.3	2
68	Editorial: Linking Short-term Geomorphic Processes to Landscape Evolution. , 1997, 22, 193.		2
69	Climate and the Initiation of Maritime Ice Sheets. <i>Annals of Glaciology</i> , 1990, 14, 232-237.	2.8	1
70	Climate emergency: lessons from the Covid-19 emergency?. <i>Scottish Geographical Journal</i> , 2020, 136, 49-56.	0.4	1
71	Experience in one Scottish department. <i>Journal of Geography in Higher Education</i> , 1992, 16, 101-102.	1.4	0
72	Glacial Marine Sedimentation: Paleoclimatic Significance. John B. Anderson and Gail M. Ashley (Editors). 1991. Boulder: Geological Society of America (Special Paper 261). viii + 232 p, illustrated, soft cover. ISBN 0-8137-2261-6. US\$47.50.. <i>Polar Record</i> , 1993, 29, 340-341.	0.4	0

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73	Changing Glaciers and their Role in Earth Surface Evolution. , 0, , 187-191.		0