

Martin J Siegert

List of Publications by Year in descending order

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252
papers

13,615
citations

36303

51
h-index

27406

106
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303
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303
docs citations

303
times ranked

8523
citing authors

#	ARTICLE	IF	CITATIONS
1	Bedmap2: improved ice bed, surface and thickness datasets for Antarctica. <i>Cryosphere</i> , 2013, 7, 375-393.	3.9	1,455
2	Late Quaternary ice sheet history of northern Eurasia. <i>Quaternary Science Reviews</i> , 2004, 23, 1229-1271.	3.0	1,279
3	BedMachine v3: Complete Bed Topography and Ocean Bathymetry Mapping of Greenland From Multibeam Echo Sounding Combined With Mass Conservation. <i>Geophysical Research Letters</i> , 2017, 44, 11051-11061.	4.0	536
4	Rapid discharge connects Antarctic subglacial lakes. <i>Nature</i> , 2006, 440, 1033-1036.	27.8	384
5	THE LAST GLACIAL MAXIMUM OF SVALBARD AND THE BARENTS SEA AREA: ICE SHEET EXTENT AND CONFIGURATION. <i>Quaternary Science Reviews</i> , 1998, 17, 43-75.	3.0	346
6	A large deep freshwater lake beneath the ice of central East Antarctica. <i>Nature</i> , 1996, 381, 684-686.	27.8	325
7	Maximum extent of the Eurasian ice sheets in the Barents and Kara Sea region during the Weichselian. <i>Boreas</i> , 1999, 28, 234-242.	2.4	322
8	A revised inventory of Antarctic subglacial lakes. <i>Antarctic Science</i> , 2005, 17, 453-460.	0.9	268
9	Physical, chemical and biological processes in Lake Vostok and other Antarctic subglacial lakes. <i>Nature</i> , 2001, 414, 603-609.	27.8	240
10	Contributions from glacially derived sediment to the global iron (oxyhydr)oxide cycle: Implications for iron delivery to the oceans. <i>Geochimica Et Cosmochimica Acta</i> , 2006, 70, 2765-2780.	3.9	216
11	A fourth inventory of Antarctic subglacial lakes. <i>Antarctic Science</i> , 2012, 24, 659-664.	0.9	204
12	The periglacial climate and environment in northern Eurasia during the Last Glaciation. <i>Quaternary Science Reviews</i> , 2004, 23, 1333-1357.	3.0	183
13	Choosing the future of Antarctica. <i>Nature</i> , 2018, 558, 233-241.	27.8	172
14	A dynamic early East Antarctic Ice Sheet suggested by ice-covered fjord landscapes. <i>Nature</i> , 2011, 474, 72-75.	27.8	167
15	Evidence from ice shelves for channelized meltwater flow beneath the Antarctic Ice Sheet. <i>Nature Geoscience</i> , 2013, 6, 945-948.	12.9	163
16	A roadmap for Antarctic and Southern Ocean science for the next two decades and beyond. <i>Antarctic Science</i> , 2015, 27, 3-18.	0.9	158
17	Ocean access to a cavity beneath Totten Glacier in East Antarctica. <i>Nature Geoscience</i> , 2015, 8, 294-298.	12.9	158
18	A review of postglacial emergence on Svalbard, Franz Josef Land and Novaya Zemlya, northern Eurasia. <i>Quaternary Science Reviews</i> , 2004, 23, 1391-1434.	3.0	157

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19	The Gamburtsev mountains and the origin and early evolution of the Antarctic Ice Sheet. <i>Nature</i> , 2009, 459, 690-693.	27.8	150
20	Large-scale sedimentation on the glacier-influenced polar North Atlantic Margins: Long-range side-scan sonar evidence. <i>Geophysical Research Letters</i> , 1996, 23, 3535-3538.	4.0	144
21	Modelling the Eurasian Ice Sheet through a full (Weichselian) glacial cycle. <i>Global and Planetary Change</i> , 2001, 31, 367-385.	3.5	133
22	Ice-sheet numerical modeling and marine geophysical measurements of glacier-derived sedimentation on the Eurasian Arctic continental margins. <i>Bulletin of the Geological Society of America</i> , 1999, 111, 1080-1097.	3.3	131
23	The subglacial geology of Wilkes Land, East Antarctica. <i>Geophysical Research Letters</i> , 2014, 41, 2390-2400.	4.0	129
24	Antarctic subglacial lakes. <i>Earth-Science Reviews</i> , 2000, 50, 29-50.	9.1	125
25	The Antarctic Peninsula Under a 1.5°C Global Warming Scenario. <i>Frontiers in Environmental Science</i> , 2019, 7, .	3.3	117
26	A subglacial water-flow model for West Antarctica. <i>Journal of Glaciology</i> , 2009, 55, 879-888.	2.2	112
27	Numerical reconstructions of the Eurasian Ice Sheet and climate during the Late Weichselian. <i>Quaternary Science Reviews</i> , 2004, 23, 1273-1283.	3.0	111
28	Steep reverse bed slope at the grounding line of the Weddell Sea sector in West Antarctica. <i>Nature Geoscience</i> , 2012, 5, 393-396.	12.9	109
29	The dimensions and topographic setting of Antarctic subglacial lakes and implications for large-scale water storage beneath continental ice sheets. <i>Bulletin of the Geological Society of America</i> , 1999, 111, 254-263.	3.3	106
30	New modeling of the Vostok ice flow line and implication for the glaciological chronology of the Vostok ice core. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	102
31	Repeated large-scale retreat and advance of Totten Glacier indicated by inland bed erosion. <i>Nature</i> , 2016, 533, 385-389.	27.8	98
32	Late Weichselian Glaciation of the Russian High Arctic. <i>Quaternary Research</i> , 1999, 52, 273-285.	1.7	92
33	Recent advances in understanding Antarctic subglacial lakes and hydrology. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2016, 374, 20140306.	3.4	90
34	Water exchange between the subglacial Lake Vostok and the overlying ice sheet. <i>Nature</i> , 2000, 403, 643-646.	27.8	79
35	Five decades of radioglaciology. <i>Annals of Glaciology</i> , 2020, 61, 1-13.	1.4	74
36	The hydrochemistry of Lake Vostok and the potential for life in Antarctic subglacial lakes. <i>Hydrological Processes</i> , 2003, 17, 795-814.	2.6	68

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37	Evidence of a hydrological connection between the ice divide and ice sheet margin in the Aurora Subglacial Basin, East Antarctica. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	68
38	Spectral roughness of subglacial topography and implications for former ice-sheet dynamics in East Antarctica. <i>Global and Planetary Change</i> , 2005, 45, 249-263.	3.5	67
39	Inland extent of the Weddell Sea Rift imaged by new aerogeophysical data. <i>Tectonophysics</i> , 2013, 585, 137-160.	2.2	67
40	High sensitivity of subglacial hydrological pathways in Antarctica to small ice-sheet changes. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	64
41	Quantifying subglacial bed roughness in Antarctica: implications for ice-sheet dynamics and history. <i>Quaternary Science Reviews</i> , 2009, 28, 223-236.	3.0	63
42	Clean access, measurement, and sampling of Ellsworth Subglacial Lake: A method for exploring deep Antarctic subglacial lake environments. <i>Reviews of Geophysics</i> , 2012, 50, .	23.0	63
43	Paleofluvial Mega-Canyon Beneath the Central Greenland Ice Sheet. <i>Science</i> , 2013, 341, 997-999.	12.6	63
44	Forests and Decarbonization – Roles of Natural and Planted Forests. <i>Frontiers in Forests and Global Change</i> , 2020, 3, .	2.3	63
45	Greenland subglacial lakes detected by radar. <i>Geophysical Research Letters</i> , 2013, 40, 6154-6159.	4.0	62
46	Spatial variations in heat at the base of the Antarctic ice sheet from analysis of the thermal regime above subglacial lakes. <i>Journal of Glaciology</i> , 1996, 42, 501-509.	2.2	60
47	An assessment of deep hot-water drilling as a means to undertake direct measurement and sampling of Antarctic subglacial lakes: experience and lessons learned from the Lake Ellsworth field season 2012/13. <i>Annals of Glaciology</i> , 2014, 55, 59-73.	1.4	59
48	Terrigenous fluxes at the Celtic margin during the last glacial cycle. <i>Marine Geology</i> , 2002, 188, 79-108.	2.1	57
49	The physiography of modern Antarctic subglacial lakes. <i>Global and Planetary Change</i> , 2003, 35, 221-236.	3.5	57
50	Radio-Echo Sounding Over Polar Ice Masses. <i>Journal of Environmental and Engineering Geophysics</i> , 2007, 12, 47-62.	0.5	55
51	Subglacial water at the heads of Antarctic ice-stream tributaries. <i>Journal of Glaciology</i> , 2000, 46, 702-703.	2.2	54
52	Ice Flow Direction Change in Interior West Antarctica. <i>Science</i> , 2004, 305, 1948-1951.	12.6	54
53	Sustained Antarctic Research: A 21st Century Imperative. <i>One Earth</i> , 2019, 1, 95-113.	6.8	54
54	Subglacial lakes and their changing role in a warming climate. <i>Nature Reviews Earth & Environment</i> , 2022, 3, 106-124.	29.7	54

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55	Subglacial Lake Ellsworth: A candidate for in situ exploration in West Antarctica. <i>Geophysical Research Letters</i> , 2004, 31, .	4.0	53
56	LAKES BENEATH THE ICE SHEET: The Occurrence, Analysis, and Future Exploration of Lake Vostok and Other Antarctic Subglacial Lakes. <i>Annual Review of Earth and Planetary Sciences</i> , 2005, 33, 215-245.	11.0	53
57	East Antarctic ice stream tributary underlain by major sedimentary basin. <i>Geology</i> , 2006, 34, 33.	4.4	53
58	Late Holocene ice-flow reconfiguration in the Weddell Sea sector of West Antarctica. <i>Quaternary Science Reviews</i> , 2013, 78, 98-107.	3.0	53
59	Deep radiostratigraphy of the East Antarctic plateau: connecting the Dome C and Vostok ice core sites. <i>Journal of Glaciology</i> , 2016, 62, 323-334.	2.2	53
60	Twenty-first century sea-level rise could exceed IPCC projections for strong-warming futures. <i>One Earth</i> , 2020, 3, 691-703.	6.8	52
61	Delivering 21st century Antarctic and Southern Ocean science. <i>Antarctic Science</i> , 2016, 28, 407-423.	0.9	51
62	Penetration of Antarctic subglacial lakes by VHF electromagnetic pulses: Information on the depth and electrical conductivity of basal water bodies. <i>Journal of Geophysical Research</i> , 1999, 104, 29311-29320.	3.3	50
63	An analysis of the ice-sheet surface and subsurface topography above the Vostok Station subglacial lake, central East Antarctica. <i>Journal of Geophysical Research</i> , 1998, 103, 10195-10207.	3.3	48
64	On the origin, nature and uses of Antarctic ice-sheet radio-echo layering. <i>Progress in Physical Geography</i> , 1999, 23, 159-179.	3.2	48
65	Dynamic distributed drainage implied by the flow evolution of the 1996-1998 Adventure Trench subglacial lake discharge. <i>Earth and Planetary Science Letters</i> , 2009, 283, 24-37.	4.4	48
66	Self-affine subglacial roughness: consequences for radar scattering and basal water discrimination in northern Greenland. <i>Cryosphere</i> , 2017, 11, 1247-1264.	3.9	48
67	Numerical reconstructions of LGM climate across the Eurasian Arctic. <i>Quaternary Science Reviews</i> , 2001, 20, 1595-1605.	3.0	47
68	Modelling iceberg trajectories, sedimentation rates and meltwater input to the ocean from the Eurasian Ice Sheet at the Last Glacial Maximum. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2006, 236, 135-150.	2.3	47
69	West Antarctic balance calculations: Impact of flux-routing algorithm, smoothing algorithm and topography. <i>Computers and Geosciences</i> , 2006, 32, 1780-1795.	4.2	47
70	Macro-scale bed roughness of the single coast ice streams in West Antarctica. <i>Earth Surface Processes and Landforms</i> , 2004, 29, 1591-1596.	2.5	45
71	Location for direct access to subglacial Lake Ellsworth: An assessment of geophysical data and modeling. <i>Geophysical Research Letters</i> , 2010, 37, .	4.0	45
72	Anomalously high geothermal flux near the South Pole. <i>Scientific Reports</i> , 2018, 8, 16785.	3.3	45

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73	Spectral roughness of glaciated bedrock geomorphic surfaces: Implications for glacier sliding. <i>Journal of Geophysical Research</i> , 2000, 105, 21295-21303.	3.3	44
74	Modeling the refreezing of meltwater as superimposed ice on a high Arctic glacier: A comparison of approaches. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	44
75	The Ellsworth Subglacial Highlands: Inception and retreat of the West Antarctic Ice Sheet. <i>Bulletin of the Geological Society of America</i> , 2014, 126, 3-15.	3.3	44
76	Regional-scale bed roughness beneath ice masses: measurement and analysis. <i>Computers and Geosciences</i> , 2004, 30, 899-908.	4.2	43
77	Organized flow from the South Pole to the Filchner-Ronne ice shelf: An assessment of balance velocities in interior East Antarctica using radio echo sounding data. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	43
78	Topographic controls on post-Oligocene changes in ice-sheet dynamics, Prydz Bay region, East Antarctica. <i>Geology</i> , 2004, 32, 197.	4.4	42
79	Boundary conditions of an active West Antarctic subglacial lake: implications for storage of water beneath the ice sheet. <i>Cryosphere</i> , 2014, 8, 15-24.	3.9	42
80	Glacial–interglacial variations in central East Antarctic ice accumulation rates. <i>Quaternary Science Reviews</i> , 2003, 22, 741-750.	3.0	41
81	A chronology for the Dome C deep ice-core site through radio-echo layer Correlation with the Vostok Ice Core, Antarctica. <i>Geophysical Research Letters</i> , 1998, 25, 1019-1022.	4.0	38
82	Refined broad-scale sub-glacial morphology of Aurora Subglacial Basin, East Antarctica derived by an ice-dynamics-based interpolation scheme. <i>Cryosphere</i> , 2011, 5, 551-560.	3.9	38
83	Basal roughness of the Institute and MÅ¶ller Ice Streams, West Antarctica: Process determination and landscape interpretation. <i>Geomorphology</i> , 2014, 214, 139-147.	2.6	38
84	Ice–flow structure and ice dynamic changes in the Weddell Sea sector of West Antarctica from radar–imaged internal layering. <i>Journal of Geophysical Research F: Earth Surface</i> , 2015, 120, 655-670.	2.8	37
85	Numerical Modeling of the Late Weichselian Svalbard-Barents Sea Ice Sheet. <i>Quaternary Research</i> , 1995, 43, 1-13.	1.7	36
86	An International Plan for Antarctic Subglacial Lake Exploration. <i>Polar Geography</i> , 2003, 27, 69-83.	1.9	36
87	Past rates of accumulation in central West Antarctica. <i>Geophysical Research Letters</i> , 2004, 31, n/a-n/a.	4.0	36
88	Characterization of subglacial landscapes by a two-parameter roughness index. <i>Journal of Glaciology</i> , 2010, 56, 831-836.	2.2	36
89	Airborne radar evidence for tributary flow switching in Institute Ice Stream, West Antarctica: Implications for ice sheet configuration and dynamics. <i>Journal of Geophysical Research F: Earth Surface</i> , 2015, 120, 1611-1625.	2.8	36
90	Is there 1.5-million-year-old ice near Dome C, Antarctica?. <i>Cryosphere</i> , 2017, 11, 2427-2437.	3.9	36

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91	Ocean forced variability of Totten Glacier mass loss. Geological Society Special Publication, 2018, 461, 175-186.	1.3	36
92	Determining basal ice-sheet conditions in the Dome C region of East Antarctica using satellite radar altimetry and airborne radio-echo sounding. Journal of Glaciology, 1998, 44, 1-8.	2.2	35
93	A constraint upon the basal water distribution and thermal state of the Greenland Ice Sheet from radar bed echoes. Cryosphere, 2018, 12, 2831-2854.	3.9	35
94	Antarctic subglacial groundwater: a concept paper on its measurement and potential influence on ice flow. Geological Society Special Publication, 2018, 461, 197-213.	1.3	35
95	Spatio-temporal variability of processes across Antarctic ice-bed-ocean interfaces. Nature Communications, 2018, 9, 2289.	12.8	34
96	Bed topography of Princess Elizabeth Land in East Antarctica. Earth System Science Data, 2020, 12, 2765-2774.	9.9	34
97	Radar-derived bed roughness characterization of Institute and MÅ¶ller ice streams, West Antarctica, and comparison with Siple Coast ice streams. Geophysical Research Letters, 2007, 34, .	4.0	33
98	Reconstructing glacier-based climates of LGM Europe and Russia - Part 2: A dataset of LGM precipitation/temperature relations derived from degree-day modelling of palaeo glaciers. Climate of the Past, 2008, 4, 249-263.	3.4	33
99	Time-dependence of the spatial pattern of accumulation rate in East Antarctica deduced from isochronic radar layers using a 3D numerical ice flow model. Journal of Geophysical Research, 2011, 116, .	3.3	33
100	Sensitivity of the Weddell Sea sector ice streams to sub-shelf melting and surface accumulation. Cryosphere, 2014, 8, 2119-2134.	3.9	33
101	Subglacial controls on the flow of Institute Ice Stream, West Antarctica. Annals of Glaciology, 2016, 57, 19-24.	1.4	33
102	The identification and physiographical setting of Antarctic subglacial lakes: An update based on recent discoveries. Geophysical Monograph Series, 2011, , 9-26.	0.1	33
103	Spatial stability of Ice Stream D and its tributaries, West Antarctica, revealed by radio-echo sounding and interferometry. Annals of Glaciology, 2003, 37, 377-382.	1.4	32
104	Holocene stability of the Amundsen-Weddell ice divide, West Antarctica. Geology, 2011, 39, 935-938.	4.4	31
105	Distribution of subglacial sediments across the Wilkes Subglacial Basin, East Antarctica. Journal of Geophysical Research F: Earth Surface, 2016, 121, 790-813.	2.8	31
106	The Eurasian Arctic During the Last Ice Age. American Scientist, 2002, 90, 32.	0.1	31
107	Ice-sheet radar layering and the development of preferred crystal orientation fabrics between Lake Vostok and Ridge B, central East Antarctica. Earth and Planetary Science Letters, 2000, 179, 227-235.	4.4	30
108	Evidence for a large surface ablation zone in central East Antarctica during the last Ice Age. Quaternary Research, 2003, 59, 114-121.	1.7	30

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109	Antarctic subglacial topography and ice-sheet evolution. <i>Earth Surface Processes and Landforms</i> , 2008, 33, 646-660.	2.5	30
110	An extensive subglacial lake and canyon system in Princess Elizabeth Land, East Antarctica. <i>Geology</i> , 2016, 44, 87-90.	4.4	30
111	Salinity impact on water flow and lake ice in Lake Vostok, Antarctica. <i>Geophysical Research Letters</i> , 2003, 30, .	4.0	29
112	Recent advances in understanding Antarctic climate evolution. <i>Antarctic Science</i> , 2008, 20, 313-325.	0.9	28
113	The tectonic development and erosion of the Knox Subglacial Sedimentary Basin, East Antarctica. <i>Geophysical Research Letters</i> , 2016, 43, 10,728.	4.0	28
114	Basal topography and ice flow in the Bailey/Slessor region of East Antarctica. <i>Journal of Geophysical Research</i> , 2003, 108, n/a-n/a.	3.3	26
115	Numerical modelling of ice-sheet dynamics across the Vostok subglacial lake, central East Antarctica. <i>Journal of Glaciology</i> , 2000, 46, 197-205.	2.2	25
116	Multidecadal observations of the Antarctic ice sheet from restored analog radar records. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 18867-18873.	7.1	25
117	Subglacial roughness of the Greenland Ice Sheet: relationship with contemporary ice velocity and geology. <i>Cryosphere</i> , 2019, 13, 3093-3115.	3.9	25
118	Switch-off of a major enhanced ice flow unit in East Antarctica. <i>Geophysical Research Letters</i> , 2006, 33, .	4.0	24
119	Science, geopolitics and the governance of Antarctica. <i>Nature Geoscience</i> , 2008, 1, 143-145.	12.9	24
120	A temperate former West Antarctic ice sheet suggested by an extensive zone of subglacial meltwater channels. <i>Geology</i> , 2014, 42, 971-974.	4.4	24
121	Technologies for retrieving sediment cores in Antarctic subglacial settings. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2016, 374, 20150056.	3.4	24
122	Internal ice-sheet radar layer profiles and their relation to reflection mechanisms between Dome C and the Transantarctic Mountains. <i>Journal of Glaciology</i> , 2001, 47, 205-212.	2.2	23
123	Subglacial hydrological connectivity within the Byrd Glacier catchment, East Antarctica. <i>Journal of Glaciology</i> , 2014, 60, 345-352.	2.2	23
124	Vostok subglacial lake: A review of geophysical data regarding its discovery and topographic setting. <i>Geophysical Monograph Series</i> , 2011, , 45-60.	0.1	23
125	Modelling the impact of superimposed ice on the mass balance of an Arctic glacier under scenarios of future climate change. <i>Annals of Glaciology</i> , 2005, 42, 277-283.	1.4	22
126	On thick ice: scientific internationalism and Antarctic affairs, 1957-1980. <i>History and Technology</i> , 2008, 24, 351-376.	1.1	22

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127	Accidents and opportunities: a history of the radio echo-sounding of Antarctica, 1958–79. <i>British Journal for the History of Science</i> , 2008, 41, 417-444.	0.7	22
128	The englacial stratigraphy of Wilkes Land, East Antarctica, as revealed by internal radio-echo sounding layering, and its relationship with balance velocities. <i>Annals of Glaciology</i> , 2003, 36, 189-196.	1.4	21
129	Reconstructing ice-sheet accumulation rates at ridge B, East Antarctica. <i>Annals of Glaciology</i> , 2004, 39, 326-330.	1.4	21
130	Quantifying the Mass Balance of Ice Caps on Severnaya Zemlya, Russian High Arctic. I: Climate and Mass Balance of the Vavilov Ice Cap. <i>Arctic, Antarctic, and Alpine Research</i> , 2006, 38, 1-12.	1.1	21
131	Antarctic subglacial lake exploration: first results and future plans. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2016, 374, 20140466.	3.4	21
132	Generating synthetic fjord bathymetry for coastal Greenland. <i>Cryosphere</i> , 2017, 11, 363-380.	3.9	21
133	A large West Antarctic Ice Sheet explains early Neogene sea-level amplitude. <i>Nature</i> , 2021, 600, 450-455.	27.8	21
134	The IGY and the ice sheet: surveying Antarctica. <i>Journal of Historical Geography</i> , 2008, 34, 574-595.	0.7	20
135	An ice-sheet-wide framework for englacial attenuation from ice-penetrating radar data. <i>Cryosphere</i> , 2016, 10, 1547-1570.	3.9	20
136	Spatial Variability of Antarctic Surface Snow Bacterial Communities. <i>Frontiers in Microbiology</i> , 2019, 10, 461.	3.5	20
137	Insights into geological evolution of Princess Elizabeth Land, East Antarctica-clues for continental suturing and breakup since Rodinian time. <i>Gondwana Research</i> , 2020, 84, 260-283.	6.0	20
138	Englacial Architecture and Age-Depth Constraints Across the West Antarctic Ice Sheet. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL086663.	4.0	20
139	Optimal site selection for a high-resolution ice core record in East Antarctica. <i>Climate of the Past</i> , 2016, 12, 595-610.	3.4	20
140	Internal radio-echo layering at Vostok station, Antarctica, as an independent stratigraphic control on the ice-core record. <i>Annals of Glaciology</i> , 1998, 27, 360-364.	1.4	19
141	Incorporation of particulates into accreted ice above subglacial Vostok lake, Antarctica. <i>Annals of Glaciology</i> , 2005, 40, 145-150.	1.4	19
142	Exploring subglacial Antarctic lake environments. <i>Eos</i> , 2005, 86, 193.	0.1	19
143	Clean subglacial access: prospects for future deep hot-water drilling. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2016, 374, 20140304.	3.4	19
144	Evidence for the long-term sedimentary environment in an Antarctic subglacial lake. <i>Earth and Planetary Science Letters</i> , 2018, 504, 139-151.	4.4	19

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145	A new bed elevation model for the Weddell Sea sector of the West Antarctic Ice Sheet. <i>Earth System Science Data</i> , 2018, 10, 711-725.	9.9	19
146	The role of ice thickness and bed properties on the dynamics of the enhanced-flow tributaries of Bailey Ice Stream and Slessor Glacier, East Antarctica. <i>Annals of Glaciology</i> , 2004, 39, 366-372.	1.4	18
147	Land-ice elevation changes from photon-counting swath altimetry: first applications over the Antarctic ice sheet. <i>Journal of Glaciology</i> , 2015, 61, 17-28.	2.2	18
148	Paleofluvial landscape inheritance for Jakobshavn Isbr� catchment, Greenland. <i>Geophysical Research Letters</i> , 2016, 43, 6350-6357.	4.0	18
149	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.	23.0	18
150	Radar-Detected Englacial Debris in the West Antarctic Ice Sheet. <i>Geophysical Research Letters</i> , 2019, 46, 10454-10462.	4.0	18
151	Modelling ice-sheet sensitivity to late weichselian environments in the svalbard-barents sea region. <i>Journal of Quaternary Science</i> , 1995, 10, 33-43.	2.1	17
152	Antarctic Earth Sciences: Preface. <i>Earth and Environmental Science Transactions of the Royal Society of Edinburgh</i> , 2013, 104, 1-1.	0.3	17
153	Ancient pre-glacial erosion surfaces preserved beneath the West Antarctic Ice Sheet. <i>Earth Surface Dynamics</i> , 2015, 3, 139-152.	2.4	17
154	Hard rock landforms generate 130�%km ice shelf channels through water focusing in basal corrugations. <i>Nature Communications</i> , 2018, 9, 4576.	12.8	17
155	A high-resolution synthetic bed elevation grid of the Antarctic continent. <i>Earth System Science Data</i> , 2017, 9, 267-279.	9.9	16
156	Data in Antarctic Science and Politics. <i>Social Studies of Science</i> , 2008, 38, 571-604.	2.5	15
157	Microbiology: lessons from a first attempt at Lake Ellsworth. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2016, 374, 20140291.	3.4	15
158	Governance of the Exploration of Subglacial Antarctica. <i>Frontiers in Environmental Science</i> , 2018, 6, .	3.3	14
159	Reflections on the anomalous ANITA events: the Antarctic subsurface as a possible explanation. <i>Annals of Glaciology</i> , 2020, 61, 92-98.	1.4	14
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161	Position and variability of complex structures in the central East Antarctic Ice Sheet. <i>Geological Society Special Publication</i> , 2018, 461, 113-129.	1.3	13
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