

Tom A Jordan

List of Publications by Year in descending order

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Version: 2024-02-01

49
papers

3,677
citations

257357

24
h-index

214721

47
g-index

63
all docs

63
docs citations

63
times ranked

3293
citing authors

#	ARTICLE	IF	CITATIONS
1	Bedmap2: improved ice bed, surface and thickness datasets for Antarctica. <i>Cryosphere</i> , 2013, 7, 375-393.	1.5	1,455
2	East Antarctic rifting triggers uplift of the Gamburtsev Mountains. <i>Nature</i> , 2011, 479, 388-392.	13.7	198
3	Gravity anomalies, flexure and the elastic thickness structure of the India-Eurasia collisional system. <i>Earth and Planetary Science Letters</i> , 2005, 236, 732-750.	1.8	164
4	Evidence from ice shelves for channelized meltwater flow beneath the Antarctic Ice Sheet. <i>Nature Geoscience</i> , 2013, 6, 945-948.	5.4	163
5	Widespread Persistent Thickening of the East Antarctic Ice Sheet by Freezing from the Base. <i>Science</i> , 2011, 331, 1592-1595.	6.0	161
6	Heat Flux Distribution of Antarctica Unveiled. <i>Geophysical Research Letters</i> , 2017, 44, 11,417.	1.5	136
7	Aeromagnetic exploration over the East Antarctic Ice Sheet: A new view of the Wilkes Subglacial Basin. <i>Tectonophysics</i> , 2009, 478, 62-77.	0.9	109
8	Steep reverse bed slope at the grounding line of the Weddell Sea sector in West Antarctica. <i>Nature Geoscience</i> , 2012, 5, 393-396.	5.4	109
9	The geological history and evolution of West Antarctica. <i>Nature Reviews Earth & Environment</i> , 2020, 1, 117-133.	12.2	87
10	New Magnetic Anomaly Map of the Antarctic. <i>Geophysical Research Letters</i> , 2018, 45, 6437-6449.	1.5	78
11	Aerogravity evidence for major crustal thinning under the Pine Island Glacier region (West) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf	1.6	76
12	Early East Antarctic Ice Sheet growth recorded in the landscape of the Gamburtsev Subglacial Mountains. <i>Earth and Planetary Science Letters</i> , 2013, 375, 1-12.	1.8	75
13	Inland extent of the Weddell Sea Rift imaged by new aerogeophysical data. <i>Tectonophysics</i> , 2013, 585, 137-160.	0.9	67
14	Geothermal Heat Flux Reveals the Iceland Hotspot Track Underneath Greenland. <i>Geophysical Research Letters</i> , 2018, 45, 8214-8222.	1.5	67
15	Influence of subglacial conditions on ice stream dynamics: Seismic and potential field data from Pine Island Glacier, West Antarctica. <i>Journal of Geophysical Research: Solid Earth</i> , 2013, 118, 1471-1482.	1.4	56
16	Anomalously high geothermal flux near the South Pole. <i>Scientific Reports</i> , 2018, 8, 16785.	1.6	45
17	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.	1.6	44
18	Crustal architecture of the Wilkes Subglacial Basin in East Antarctica, as revealed from airborne gravity data. <i>Tectonophysics</i> , 2013, 585, 196-206.	0.9	41

#	ARTICLE	IF	CITATIONS
19	Freezing of ridges and water networks preserves the Gamburtsev Subglacial Mountains for millions of years. <i>Geophysical Research Letters</i> , 2014, 41, 8114-8122.	1.5	38
20	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.	1.0	37
21	Sensitivity of the Weddell Sea sector ice streams to sub-shelf melting and surface accumulation. <i>Cryosphere</i> , 2014, 8, 2119-2134.	1.5	33
22	Rapid subglacial erosion beneath Pine Island Glacier, West Antarctica. <i>Geophysical Research Letters</i> , 2012, 39, .	1.5	29
23	Revealing the former bed of Thwaites Glacier using sea-floor bathymetry: implications for warm-water routing and bed controls on ice flow and buttressing. <i>Cryosphere</i> , 2020, 14, 2883-2908.	1.5	27
24	Exploring the Recovery Lakes region and interior Dronning Maud Land, East Antarctica, with airborne gravity, magnetic and radar measurements. <i>Geological Society Special Publication</i> , 2018, 461, 23-34.	0.8	26
25	Variable crustal thickness beneath Thwaites Glacier revealed from airborne gravimetry, possible implications for geothermal heat flux in West Antarctica. <i>Earth and Planetary Science Letters</i> , 2014, 407, 109-122.	1.8	25
26	New gravity-derived bathymetry for the Thwaites, Crosson, and Dotson ice shelves revealing two ice shelf populations. <i>Cryosphere</i> , 2020, 14, 2869-2882.	1.5	25
27	A temperate former West Antarctic ice sheet suggested by an extensive zone of subglacial meltwater channels. <i>Geology</i> , 2014, 42, 971-974.	2.0	24
28	Uplift and tilting of the Shackleton Range in East Antarctica driven by glacial erosion and normal faulting. <i>Journal of Geophysical Research: Solid Earth</i> , 2017, 122, 2390-2408.	1.4	23
29	Subglacial Geology and Geomorphology of the Pensacola Pole Basin, East Antarctica. <i>Geochemistry, Geophysics, Geosystems</i> , 2019, 20, 2786-2807.	1.0	22
30	Jurassic high heat production granites associated with the Weddell Sea rift system, Antarctica. <i>Tectonophysics</i> , 2018, 722, 249-264.	0.9	20
31	Englacial Architecture and Age-Depth Constraints Across the West Antarctic Ice Sheet. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL086663.	1.5	20
32	The geological evolution of southern McMurdo Sound - new evidence from a high-resolution aeromagnetic survey. <i>Geophysical Journal International</i> , 2007, 170, 93-100.	1.0	19
33	Magmatism of the Weddell Sea rift system in Antarctica: Implications for the age and mechanism of rifting and early stage Gondwana breakup. <i>Gondwana Research</i> , 2020, 79, 185-196.	3.0	19
34	Ancient pre-glacial erosion surfaces preserved beneath the West Antarctic Ice Sheet. <i>Earth Surface Dynamics</i> , 2015, 3, 139-152.	1.0	17
35	First airborne gravity results over the Thwaites Glacier catchment, West Antarctica. <i>Geochemistry, Geophysics, Geosystems</i> , 2008, 9, .	1.0	16
36	Past and future dynamics of the Brunt Ice Shelf from seabed bathymetry and ice shelf geometry. <i>Cryosphere</i> , 2019, 13, 545-556.	1.5	16

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37	Hypothesis for mega-outburst flooding from a palaeo-subglacial lake beneath the East Antarctic Ice Sheet. <i>Terra Nova</i> , 2010, 22, no-no.	0.9	13
38	Position and variability of complex structures in the central East Antarctic Ice Sheet. <i>Geological Society Special Publication</i> , 2018, 461, 113-129.	0.8	13
39	Airborne gravity reveals interior of Antarctic volcano. <i>Physics of the Earth and Planetary Interiors</i> , 2009, 175, 127-136.	0.7	11
40	Analysis of James Ross Island volcanic complex and sedimentary basin based on high-resolution aeromagnetic data. <i>Tectonophysics</i> , 2013, 585, 90-101.	0.9	11
41	Basal Settings Control Fast Ice Flow in the Recovery/Slessor/Bailey Region, East Antarctica. <i>Geophysical Research Letters</i> , 2018, 45, 2706-2715.	1.5	11
42	A joint inversion of receiver function and Rayleigh wave phase velocity dispersion data to estimate crustal structure in West Antarctica. <i>Geophysical Journal International</i> , 2020, 223, 1644-1657.	1.0	11
43	Investigating the distribution of magmatism at the onset of Gondwana breakup with novel strapdown gravity and aeromagnetic data. <i>Physics of the Earth and Planetary Interiors</i> , 2018, 282, 77-88.	0.7	10
44	Topographic Steering of Enhanced Ice Flow at the Bottleneck Between East and West Antarctica. <i>Geophysical Research Letters</i> , 2018, 45, 4899-4907.	1.5	9
45	Patchy Lakes and Topographic Origin for Fast Flow in the Recovery Glacier System, East Antarctica. <i>Journal of Geophysical Research F: Earth Surface</i> , 2019, 124, 287-304.	1.0	7
46	An embayment in the East Antarctic basement constrains the shape of the Rodinian continental margin. <i>Communications Earth & Environment</i> , 2022, 3, .	2.6	6
47	Seafloor Depth of George VI Sound, Antarctic Peninsula, From Inversion of Aerogravity Data. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL088654.	1.5	5
48	Reprint of: Flexural controls on late Neogene basin evolution in southern McMurdo Sound, Antarctica. <i>Global and Planetary Change</i> , 2012, 96-97, 9-22.	1.6	0
49	An Avionics Platform for Multi-instrument Survey Navigation. <i>Journal of Navigation</i> , 2016, 69, 927-939.	1.0	0