

Tom A Jordan

List of Publications by Year in descending order

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Version: 2024-02-01

49
papers

3,677
citations

257450

24
h-index

214800

47
g-index

63
all docs

63
docs citations

63
times ranked

3293
citing authors

#	ARTICLE	IF	CITATIONS
1	An embayment in the East Antarctic basement constrains the shape of the Rodinian continental margin. <i>Communications Earth & Environment</i> , 2022, 3, .	6.8	6
2	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.	6.0	19
3	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.	2.4	11
4	Seafloor Depth of George VI Sound, Antarctic Peninsula, From Inversion of Aerogravity Data. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL088654.	4.0	5
5	Englacial Architecture and Age-Depth Constraints Across the West Antarctic Ice Sheet. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL086663.	4.0	20
6	The geological history and evolution of West Antarctica. <i>Nature Reviews Earth & Environment</i> , 2020, 1, 117-133.	29.7	87
7	New gravity-derived bathymetry for the Thwaites, Crosson, and Dotson ice shelves revealing two ice shelf populations. <i>Cryosphere</i> , 2020, 14, 2869-2882.	3.9	25
8	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.	3.9	27
9	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.	2.8	7
10	Subglacial Geology and Geomorphology of the Pensacola-Pole Basin, East Antarctica. <i>Geochemistry, Geophysics, Geosystems</i> , 2019, 20, 2786-2807.	2.5	22
11	Past and future dynamics of the Brunt Ice Shelf from seabed bathymetry and ice shelf geometry. <i>Cryosphere</i> , 2019, 13, 545-556.	3.9	16
12	Basal Settings Control Fast Ice Flow in the Recovery/Slessor/Bailey Region, East Antarctica. <i>Geophysical Research Letters</i> , 2018, 45, 2706-2715.	4.0	11
13	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
14	Jurassic high heat production granites associated with the Weddell Sea rift system, Antarctica. <i>Tectonophysics</i> , 2018, 722, 249-264.	2.2	20
15	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.	1.3	26
16	Anomalously high geothermal flux near the South Pole. <i>Scientific Reports</i> , 2018, 8, 16785.	3.3	45
17	Geothermal Heat Flux Reveals the Iceland Hotspot Track Underneath Greenland. <i>Geophysical Research Letters</i> , 2018, 45, 8214-8222.	4.0	67
18	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.	1.9	10

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19	Topographic Steering of Enhanced Ice Flow at the Bottleneck Between East and West Antarctica. <i>Geophysical Research Letters</i> , 2018, 45, 4899-4907.	4.0	9
20	New Magnetic Anomaly Map of the Antarctic. <i>Geophysical Research Letters</i> , 2018, 45, 6437-6449.	4.0	78
21	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.	3.4	23
22	Heat Flux Distribution of Antarctica Unveiled. <i>Geophysical Research Letters</i> , 2017, 44, 11,417.	4.0	136
23	An Avionics Platform for Multi-instrument Survey Navigation. <i>Journal of Navigation</i> , 2016, 69, 927-939.	1.7	0
24	Ancient pre-glacial erosion surfaces preserved beneath the West Antarctic Ice Sheet. <i>Earth Surface Dynamics</i> , 2015, 3, 139-152.	2.4	17
25	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
26	Sensitivity of the Weddell Sea sector ice streams to sub-shelf melting and surface accumulation. <i>Cryosphere</i> , 2014, 8, 2119-2134.	3.9	33
27	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
28	Freezing of ridges and water networks preserves the Gamburtsev Subglacial Mountains for millions of years. <i>Geophysical Research Letters</i> , 2014, 41, 8114-8122.	4.0	38
29	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
30	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.	4.4	25
31	Inland extent of the Weddell Sea Rift imaged by new aerogeophysical data. <i>Tectonophysics</i> , 2013, 585, 137-160.	2.2	67
32	Evidence from ice shelves for channelized meltwater flow beneath the Antarctic Ice Sheet. <i>Nature Geoscience</i> , 2013, 6, 945-948.	12.9	163
33	Analysis of James Ross Island volcanic complex and sedimentary basin based on high-resolution aeromagnetic data. <i>Tectonophysics</i> , 2013, 585, 90-101.	2.2	11
34	Crustal architecture of the Wilkes Subglacial Basin in East Antarctica, as revealed from airborne gravity data. <i>Tectonophysics</i> , 2013, 585, 196-206.	2.2	41
35	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.	4.4	75
36	Bedmap2: improved ice bed, surface and thickness datasets for Antarctica. <i>Cryosphere</i> , 2013, 7, 375-393.	3.9	1,455

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37	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.	3.4	56
38	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
39	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.	3.5	0
40	Rapid subglacial erosion beneath Pine Island Glacier, West Antarctica. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	29
41	Widespread Persistent Thickening of the East Antarctic Ice Sheet by Freezing from the Base. <i>Science</i> , 2011, 331, 1592-1595.	12.6	161
42	East Antarctic rifting triggers uplift of the Gamburtsev Mountains. <i>Nature</i> , 2011, 479, 388-392.	27.8	198
43	Hypothesis for mega-outburst flooding from a palaeo-subglacial lake beneath the East Antarctic Ice Sheet. <i>Terra Nova</i> , 2010, 22, no-no.	2.1	13
44	Aerogravity evidence for major crustal thinning under the Pine Island Glacier region (West) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 462 Td	3.3	76
45	Aeromagnetic exploration over the East Antarctic Ice Sheet: A new view of the Wilkes Subglacial Basin. <i>Tectonophysics</i> , 2009, 478, 62-77.	2.2	109
46	Airborne gravity reveals interior of Antarctic volcano. <i>Physics of the Earth and Planetary Interiors</i> , 2009, 175, 127-136.	1.9	11
47	First airborne gravity results over the Thwaites Glacier catchment, West Antarctica. <i>Geochemistry, Geophysics, Geosystems</i> , 2008, 9, .	2.5	16
48	The geological evolution of southern McMurdo Sound - new evidence from a high-resolution aeromagnetic survey. <i>Geophysical Journal International</i> , 2007, 170, 93-100.	2.4	19
49	Gravity anomalies, flexure and the elastic thickness structure of the Indiaâ€“Eurasia collisional system. <i>Earth and Planetary Science Letters</i> , 2005, 236, 732-750.	4.4	164