Tom A Jordan

List of Publications by Year
in descending order

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	Bedmap2: improved ice bed, surface and thickness datasets for Antarctica. Cryosphere, 2013, 7, 375-393.	3.9	1,455
2	East Antarctic rifting triggers uplift of the Gamburtsev Mountains. Nature, 2011, 479, 388-392.	27.8	198
3	Gravity anomalies, flexure and the elastic thickness structure of the Indiaâ€“Eurasia collisional system. Earth and Planetary Science Letters, 2005, 236, 732-750.	4.4	164
4	Evidence from ice shelves for channelized meltwater flow beneath the Antarctic Ice Sheet. Nature Geoscience, 2013, 6, 945-948.	12.9	163
5	Widespread Persistent Thickening of the East Antarctic Ice Sheet by Freezing from the Base. Science, 2011, 331, 1592-1595.	12.6	161
6	Heat Flux Distribution of Antarctica Unveiled. Geophysical Research Letters, 2017, 44, 11,417.	4.0	136
7	Aeromagnetic exploration over the East Antarctic Ice Sheet: A new view of the Wilkes Subglacial Basin. Tectonophysics, 2009, 478, 62-77.	2.2	109
8	Steep reverse bed slope at the grounding line of the Weddell Sea sector in West Antarctica. Nature Geoscience, 2012, 5, 393-396.	12.9	109
9	The geological history and evolution of West Antarctica. Nature Reviews Earth & Environment, 2020, 1, 117-133.	29.7	87
10	New Magnetic Anomaly Map of the Antarctic. Geophysical Research Letters, 2018, 45, 6437-6449.	4.0	78
11	Aerogravity evidence for major crustal thinning under the Pine Island Glacier region (West) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf	3.3	76
12	Early East Antarctic Ice Sheet growth recorded in the landscape of the Gamburtsev Subglacial Mountains. Earth and Planetary Science Letters, 2013, 375, 1-12.	4.4	75
13	Inland extent of the Weddell Sea Rift imaged by new aerogeophysical data. Tectonophysics, 2013, 585, 137-160.	2.2	67
14	Geothermal Heat Flux Reveals the Iceland Hotspot Track Underneath Greenland. Geophysical Research Letters, 2018, 45, 8214-8222.	4.0	67
15	Influence of subglacial conditions on ice stream dynamics: Seismic and potential field data from Pine Island Glacier, West Antarctica. Journal of Geophysical Research: Solid Earth, 2013, 118, 1471-1482.	3.4	56
16	Anomalously high geothermal flux near the South Pole. Scientific Reports, 2018, 8, 16785.	3.3	45
17	The Ellsworth Subglacial Highlands: Inception and retreat of the West Antarctic Ice Sheet. Bulletin of the Geological Society of America, 2014, 126, 3-15.	3.3	44
18	Crustal architecture of the Wilkes Subglacial Basin in East Antarctica, as revealed from airborne gravity data. Tectonophysics, 2013, 585, 196-206.	2.2	41

#	Article	IF	Citations
19	Freezing of ridges and water networks preserves the Gamburtsev Subglacial Mountains for millions of years. Geophysical Research Letters, 2014, 41, 8114-8122.	4.0	38
20	Iceâ€flow structure and ice dynamic changes in the Weddell Sea sector of West Antarctica from radarâ€imaged internal layering. Journal of Geophysical Research F: Earth Surface, 2015, 120, 655-670.	2.8	37
21	Sensitivity of the Weddell Sea sector ice streams to sub-shelf melting and surface accumulation. Cryosphere, 2014, 8, 2119-2134.	3.9	33
22	Rapid subglacial erosion beneath Pine Island Glacier, West Antarctica. Geophysical Research Letters, 2012, 39, .	4.0	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. Cryosphere, 2020, 14, 2883-2908.	3.9	27
24	Exploring the Recovery Lakes region and interior Dronning Maud Land, East Antarctica, with airborne gravity, magnetic and radar measurements. Geological Society Special Publication, 2018, 461, 23-34.	1.3	26
25	Variable crustal thickness beneath Thwaites Glacier revealed from airborne gravimetry, possible implications for geothermal heat flux in West Antarctica. Earth and Planetary Science Letters, 2014, 407, 109-122.	4.4	25
26	New gravity-derived bathymetry for the Thwaites, Crosson, and Dotson ice shelves revealing two ice shelf populations. Cryosphere, 2020, 14, 2869-2882.	3.9	25
27	A temperate former West Antarctic ice sheet suggested by an extensive zone of subglacial meltwater channels. Geology, 2014, 42, 971-974.	4.4	24
28	Uplift and tilting of the Shackleton Range in East Antarctica driven by glacial erosion and normal faulting. Journal of Geophysical Research: Solid Earth, 2017, 122, 2390-2408.	3.4	23
29	Subglacial Geology and Geomorphology of the Pensacolaâ€Pole Basin, East Antarctica. Geochemistry, Geophysics, Geosystems, 2019, 20, 2786-2807.	2.5	22
30	Jurassic high heat production granites associated with the Weddell Sea rift system, Antarctica. Tectonophysics, 2018, 722, 249-264.	2.2	20
31	Englacial Architecture and Ageâ€Depth Constraints Across the West Antarctic Ice Sheet. Geophysical Research Letters, 2020, 47, e2019GL086663.	4.0	20
32	The geological evolution of southern McMurdo Sound - new evidence from a high-resolution aeromagnetic survey. Geophysical Journal International, 2007, 170, 93-100.	2.4	19
33	Magmatism of the Weddell Sea rift system in Antarctica: Implications for the age and mechanism of rifting and early stage Gondwana breakup. Gondwana Research, 2020, 79, 185-196.	6.0	19
34	Ancient pre-glacial erosion surfaces preserved beneath the West Antarctic Ice Sheet. Earth Surface Dynamics, 2015, 3, 139-152.	2.4	17
35	First airborne gravity results over the Thwaites Glacier catchment, West Antarctica. Geochemistry, Geophysics, Geosystems, 2008, 9, .	2.5	16
36	Past and future dynamics of the Brunt Ice Shelf from seabed bathymetry and ice shelf geometry. Cryosphere, 2019, 13, 545-556.	3.9	16

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37	Hypothesis for mega-outburst flooding from a palaeo-subglacial lake beneath the East Antarctic Ice Sheet. Terra Nova, 2010, 22, no-no.	2.1	13
38	Position and variability of complex structures in the central East Antarctic Ice Sheet. Geological Society Special Publication, 2018, 461, 113-129.	1.3	13
39	Airborne gravity reveals interior of Antarctic volcano. Physics of the Earth and Planetary Interiors, 2009, 175, 127-136.	1.9	11
40	Analysis of James Ross Island volcanic complex and sedimentary basin based on high-resolution aeromagnetic data. Tectonophysics, 2013, 585, 90-101.	2.2	11
41	Basal Settings Control Fast Ice Flow in the Recovery/Slessor/Bailey Region, East Antarctica. Geophysical Research Letters, 2018, 45, 2706-2715.	4.0	11
42	A joint inversion of receiver function and Rayleigh wave phase velocity dispersion data to estimate crustal structure in West Antarctica. Geophysical Journal International, 2020, 223, 1644-1657.	2.4	11
43	Investigating the distribution of magmatism at the onset of Gondwana breakup with novel strapdown gravity and aeromagnetic data. Physics of the Earth and Planetary Interiors, 2018, 282, 77-88.	1.9	10
44	Topographic Steering of Enhanced Ice Flow at the Bottleneck Between East and West Antarctica. Geophysical Research Letters, 2018, 45, 4899-4907.	4.0	9
45	Patchy Lakes and Topographic Origin for Fast Flow in the Recovery Glacier System, East Antarctica. Journal of Geophysical Research F: Earth Surface, 2019, 124, 287-304.	2.8	7
46	An embayment in the East Antarctic basement constrains the shape of the Rodinian continental margin. Communications Earth & Environment, 2022, 3, .	6.8	6
47	Seafloor Depth of George VI Sound, Antarctic Peninsula, From Inversion of Aerogravity Data. Geophysical Research Letters, 2020, 47, e2020GL088654.	4.0	5
48	Reprint of: Flexural controls on late Neogene basin evolution in southern McMurdo Sound, Antarctica. Global and Planetary Change, 2012, 96-97, 9-22.	3.5	0
49	An Avionics Platform for Multi-instrument Survey Navigation. Journal of Navigation, 2016, 69, 927-939.	1.7	0