Fausto Ferraccioli

List of Publications by Year
in descending order

73	5,000	126858	91828
papers	citations	33 h-index	69 g-index

75	75	75	3593
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Bedmap2: improved ice bed, surface and thickness datasets for Antarctica. Cryosphere, 2013, 7, 375-393.	1.5	1,455
2	Deep glacial troughs and stabilizing ridges unveiled beneath the margins of the Antarctic ice sheet. Nature Geoscience, 2020, 13, 132-137.	5.4	431
3	East Antarctic rifting triggers uplift of the Gamburtsev Mountains. Nature, 2011, 479, 388-392.	13.7	198
4	Evidence from ice shelves for channelized meltwater flow beneath the Antarctic Ice Sheet. Nature Geoscience, 2013, 6, 945-948.	5.4	163
5	Widespread Persistent Thickening of the East Antarctic Ice Sheet by Freezing from the Base. Science, 2011, 331, 1592-1595.	6.0	161
6	New boundary conditions for the West Antarctic ice sheet: Subglacial topography beneath Pine Island Glacier. Geophysical Research Letters, 2006, 33, .	1.5	146
7	The subglacial geology of Wilkes Land, East Antarctica. Geophysical Research Letters, 2014, 41, 2390-2400.	1.5	129
8	Aeromagnetic exploration over the East Antarctic Ice Sheet: A new view of the Wilkes Subglacial Basin. Tectonophysics, 2009, 478, 62-77.	0.9	109
9	Steep reverse bed slope at the grounding line of the Weddell Sea sector in West Antarctica. Nature Geoscience, 2012, 5, 393-396.	5.4	109
10	Inland thinning of West Antarctic Ice Sheet steered along subglacial rifts. Nature, 2012, 487, 468-471.	13.7	80
11	New Magnetic Anomaly Map of the Antarctic. Geophysical Research Letters, 2018, 45, 6437-6449.	1.5	78
12	Reconstructions of Antarctic topography since the Eoceneâ€“Oligocene boundary. Palaeogeography, Palaeoclimatology, Palaeoecology, 2019, 535, 109346.	1.0	78
13	Aerogravity evidence for major crustal thinning under the Pine Island Glacier region (West) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 5	1.6	76
14	Early East Antarctic Ice Sheet growth recorded in the landscape of the Gamburtsev Subglacial Mountains. Earth and Planetary Science Letters, 2013, 375, 1-12.	1.8	75
15	New Antarctic gravity anomaly grid for enhanced geodetic and geophysical studies in Antarctica. Geophysical Research Letters, 2016, 43, 600-610.	1.5	74
16	Rifted(?) crust at the East Antarctic Craton margin: gravity and magnetic interpretation along a traverse across the Wilkes Subglacial Basin region. Earth and Planetary Science Letters, 2001, 192, 407-421.	1.8	70
17	Inland extent of the Weddell Sea Rift imaged by new aerogeophysical data. Tectonophysics, 2013, 585, 137-160.	0.9	67
18	New aerogeophysical view of the Antarctic Peninsula: More pieces, less puzzle. Geophysical Research Letters, 2006, 33, .	1.5	65

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19	Microlevelling procedures applied to regional aeromagnetic data: an example from the Transantarctic Mountains (Antarctica). Geophysical Prospecting, 1998, 46, 177-196.	1.0	57
20	New geophysical compilations link crustal block motion to Jurassic extension and strike-slip faulting in the Weddell Sea Rift System of West Antarctica. Gondwana Research, 2017, 42, 29-48.	3.0	57
21	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.	1.4	56
22	East Antarctic ice stream tributary underlain by major sedimentary basin. Geology, 2006, 34, 33.	2.0	53
23	Earth tectonics as seen by GOCE - Enhanced satellite gravity gradient imaging. Scientific Reports, 2018, 8, 16356.	1.6	49
24	Aeromagnetic and gravity anomaly constraints for an early Paleozoic subduction system of Victoria Land, Antarctica. Geophysical Research Letters, 2002, 29, 44-1-44-4.	1.5	48
25	Tectonic and magmatic patterns in the Jutulstraumen rift (?) region, East Antarctica, as imaged by high-resolution aeromagnetic data. Earth, Planets and Space, 2005, 57, 767-780.	0.9	42
26	Boundary conditions of an active West Antarctic subglacial lake: implications for storage of water beneath the ice sheet. Cryosphere, 2014, 8, 15-24.	1.5	42
27	Inherited crustal features and tectonic blocks of the Transantarctic Mountains: An aeromagnetic perspective (Victoria Land, Antarctica). Journal of Geophysical Research, 1999, 104, 25297-25319.	3.3	41
28	Crustal architecture of the Wilkes Subglacial Basin in East Antarctica, as revealed from airborne gravity data. Tectonophysics, 2013, 585, 196-206.	0.9	41
29	Moho Depths of Antarctica: Comparison of Seismic, Gravity, and Isostatic Results. Geochemistry, Geophysics, Geosystems, 2019, 20, 1629-1645.	1.0	39
30	Subglacial imprints of early Gondwana break-up as identified from high resolution aerogeophysical data over western Dronning Maud Land, East Antarctica. Terra Nova, 2005, 17, 573-579.	0.9	38
31	Basal roughness of the Institute and MÃ¶ller Ice Streams, West Antarctica: Process determination and landscape interpretation. Geomorphology, 2014, 214, 139-147.	1.1	38
32	Freezing of ridges and water networks preserves the Gamburtsev Subglacial Mountains for millions of years. Geophysical Research Letters, 2014, 41, 8114-8122.	1.5	38
33	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.	1.0	37
34	Magmatic and tectonic patterns over the Northern Victoria Land sector of the Transantarctic Mountains from new aeromagnetic imaging. Tectonophysics, 2009, 478, 43-61.	0.9	34
35	Sensitivity of the Weddell Sea sector ice streams to sub-shelf melting and surface accumulation. Cryosphere, 2014, 8, 2119-2134.	1.5	33
36	The Paleocene of Antarctica: Dinoflagellate cyst biostratigraphy, chronostratigraphy and implications for the palaeo-Pacific margin of Gondwana. Gondwana Research, 2016, 38, 132-148.	3.0	32

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37	Distribution of subglacial sediments across the Wilkes Subglacial Basin, East Antarctica. Journal of Geophysical Research F: Earth Surface, 2016, 121, 790-813.	1.0	31
38	Influx of meltwater to subglacial Lake Concordia, East Antarctica. Journal of Glaciology, 2005, 51, 96-104.	1.1	30
39	Regional compilation and analysis of aeromagnetic anomalies for the Transantarctic Mountainsâ€“Ross Sea sector of the Antarctic. Tectonophysics, 2002, 347, 121-137.	0.9	28
40	Erosion-driven uplift in the Gamburtsev Subglacial Mountains of East Antarctica. Earth and Planetary Science Letters, 2016, 452, 1-14.	1.8	28
41	Subglacial geology in Coats Land, East Antarctica, revealed by airborne magnetics and radar sounding. Earth and Planetary Science Letters, 2006, 244, 323-335.	1.8	27
42	Synchronous oceanic spreading and continental rifting in West Antarctica. Geophysical Research Letters, 2016, 43, 6162-6169.	1.5	27
43	Aeromagnetic signatures over western Marie Byrd Land provide insight into magmatic arc basement, mafic magmatism and structure of the Eastern Ross Sea Rift flank. Tectonophysics, 2002, 347, 139-165.	0.9	26
44	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.	0.8	26
45	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.	1.8	25
46	Modeling Satellite Gravity Gradient Data to Derive Density, Temperature, and Viscosity Structure of the Antarctic Lithosphere. Journal of Geophysical Research: Solid Earth, 2019, 124, 12053-12076.	1.4	25
47	A temperate former West Antarctic ice sheet suggested by an extensive zone of subglacial meltwater channels. Geology, 2014, 42, 971-974.	2.0	24
48	Longâ€Term Increase in Antarctic Ice Sheet Vulnerability Driven by Bed Topography Evolution. Geophysical Research Letters, 2020, 47, e2020GL090003.	1.5	24
49	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.	1.4	23
50	Subglacial Geology and Geomorphology of the Pensacolaâ€Pole Basin, East Antarctica. Geochemistry, Geophysics, Geosystems, 2019, 20, 2786-2807.	1.0	22
51	Bedrock Erosion Surfaces Record Former East Antarctic Ice Sheet Extent. Geophysical Research Letters, 2018, 45, 4114-4123.	1.5	21
52	Jurassic high heat production granites associated with the Weddell Sea rift system, Antarctica. Tectonophysics, 2018, 722, 249-264.	0.9	20
53	East Antarctica magnetically linked to its ancient neighbours in Gondwana. Scientific Reports, 2021, 11, 5513.	1.6	20
54	Air and shipborne magnetic surveys of the Antarctic into the 21st century. Tectonophysics, 2013, 585, 3-12.	0.9	19

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55	Structure and evolution of Cenozoic arc magmatism on the Antarctic Peninsula: a high resolution aeromagnetic perspective. Geophysical Journal International, 2014, 198, 1758-1774.	1.0	18
56	Cenozoic strike-slip faulting from the eastern margin of the Wilkes Subglacial Basin to the western margin of the Ross Sea Rift: an aeromagnetic connection. Geological Society Special Publication, 2003, 210, 109-133.	0.8	17
57	Ancient pre-glacial erosion surfaces preserved beneath the West Antarctic Ice Sheet. Earth Surface Dynamics, 2015, 3, 139-152.	1.0	17
58	The Role of Lithospheric Flexure in the Landscape Evolution of the Wilkes Subglacial Basin and Transantarctic Mountains, East Antarctica. Journal of Geophysical Research F: Earth Surface, 2019, 124, 812-829.	1.0	17
59	First airborne gravity results over the Thwaites Glacier catchment, West Antarctica. Geochemistry, Geophysics, Geosystems, 2008, 9, .	1.0	16
60	Improved magnetic anomalies of the Antarctic lithosphere from satellite and near-surface data. Geophysical Journal International, 2007, 171, 119-126.	1.0	14
61	Position and variability of complex structures in the central East Antarctic Ice Sheet. Geological Society Special Publication, 2018, 461, 113-129.	0.8	13
62	High geothermal heat flow beneath Thwaites Glacier in West Antarctica inferred from aeromagnetic data. Communications Earth & Environment, 2021, 2, .	2.6	13
63	Airborne gravity reveals interior of Antarctic volcano. Physics of the Earth and Planetary Interiors, 2009, 175, 127-136.	0.7	11
64	Analysis of James Ross Island volcanic complex and sedimentary basin based on high-resolution aeromagnetic data. Tectonophysics, 2013, 585, 90-101.	0.9	11
65	Basal Settings Control Fast Ice Flow in the Recovery/Slessor/Bailey Region, East Antarctica. Geophysical Research Letters, 2018, 45, 2706-2715.	1.5	11
66	Summit of the East Antarctic Ice Sheet underlain by thick ice-crystal fabric layers linked to glacialâ€“interglacial environmental change. Geological Society Special Publication, 2018, 461, 131-143.	0.8	11
67	Recent progress in magnetic anomaly mapping over Victoria Land (Antarctica) and the GITARA 5 survey. Antarctic Science, 1999, 11, 209-216.	0.5	10
68	Magnetic susceptibilities of rocks of the Antarctic Peninsula: Implications for the redox state of the batholith and the extent of metamorphic zones. Tectonophysics, 2013, 585, 48-67.	0.9	9
69	Topographic Steering of Enhanced Ice Flow at the Bottleneck Between East and West Antarctica. Geophysical Research Letters, 2018, 45, 4899-4907.	1.5	9
70	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.	1.0	7
71	An embayment in the East Antarctic basement constrains the shape of the Rodinian continental margin. Communications Earth & Environment, 2022, 3, .	2.6	6
72	Crustal structure of the Gamburtsev Province, East Antarctica, from airborne geophysics. , 2017, , .		2

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73	Statistical analysis of the oceanic magnetic anomaly data. Physics of the Earth and Planetary Interiors, 2018, 284, 28-35.	0.7	2