Philip T Leat

List of Publications by Year
in descending order

33 papers	1,585 citations	361413 20 h-index	395702 33 g-index
34 all docs	34 docs citations	34 times ranked	1473 citing authors

#	Article	IF	Citations
1	The Chon Aike province of Patagonia and related rocks in West Antarctica: A silicic large igneous province. Journal of Volcanology and Geothermal Research, 1998, 81, 113-136.	2.1	306
2	Origins of Large Volume Rhyolitic Volcanism in the Antarctic Peninsula and Patagonia by Crustal Melting. Journal of Petrology, 2001, 42, 1043-1065.	2.8	235
3	Earlyâ€“Middle Jurassic Dolerite Dykes from Western Dronning Maud Land (Antarctica): Identifying Mantle Sources in the Karoo Large Igneous Province. Journal of Petrology, 2005, 46, 1489-1524.	2.8	136
4	Magma genesis and mantle flow at a subducting slab edge: the South Sandwich arc-basin system. Earth and Planetary Science Letters, 2004, 227, 17-35.	4.4	125
5	Inland extent of the Weddell Sea Rift imaged by new aerogeophysical data. Tectonophysics, 2013, 585, 137-160.	2.2	67
6	Large volume silicic volcanism along the proto-Pacific margin of Gondwana: lithological and stratigraphical investigations from the Antarctic Peninsula. Geological Magazine, 1999, 136, 1-16.	1.5	65
7	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.	6.0	57
8	Ultramafic lamprophyres of the Ferrar large igneous province: evidence for a HIMU mantle component. Lithos, 2003, 66, 63-76.	1.4	48
9	Growth and mass wasting of volcanic centers in the northern South Sandwich arc, South Atlantic, revealed by new multibeam mapping. Marine Geology, 2010, 275, 110-126.	2.1	47
10	Geochemistry of mafic dykes in the Antarctic Peninsula continental-margin batholith: a record of arc evolution. Contributions To Mineralogy and Petrology, 1998, 131, 289-305.	3.1	42
11	Middle Cambrian rift-related volcanism in the Ellsworth Mountains, Antarctica: tectonic implications for the palaeo-Pacific margin of Gondwana. Tectonophysics, 1999, 304, 275-299.	2.2	41
12	The form, distribution and anisotropy of magnetic susceptibility of Jurassic dykes in H.U. Sverdrupfjella, Dronning Maud Land, Antarctica. Implications for dyke swarm emplacement. Journal of Structural Geology, 2008, 30, 1429-1447.	2.3	35
13	A revised geochronology of Thurston Island, West Antarctica, and correlations along the proto-Pacific margin of Gondwana. Antarctic Science, 2017, 29, 47-60.	0.9	34
14	Large-scale submarine landslides, channel and gully systems on the southern Weddell Sea margin, Antarctica. Marine Geology, 2014, 348, 73-87.	2.1	33
15	Volcanic evolution of the South Sandwich volcanic arc, South Atlantic, from multibeam bathymetry. Journal of Volcanology and Geothermal Research, 2013, 265, 60-77.	2.1	29
16	BjÃ¶rnnutane and Sembberget basalt lavas and the geochemical provinciality of Karoo magmatism in western Dronning Maud Land, Antarctica. Journal of Volcanology and Geothermal Research, 2010, 198, 1-18.	2.1	27
17	Crustal thickening along the West Antarctic Gondwana margin during mid-Cretaceous deformation of the Triassic intra-oceanic Dyer Arc. Lithos, 2012, 142-143, 130-147.	1.4	27
18	Bathymetry and geological setting of the South Sandwich Islands volcanic arc. Antarctic Science, 2016, 28, 293-303.	0.9	27

#	Article	IF	Citations
19	Composition and evolution of the Ancestral South Sandwich Arc: Implications for the flow of deep ocean water and mantle through the Drake Passage Gateway. Global and Planetary Change, 2014, 123, 298-322.	3.5	24
20	Thinning of the Antarctic Peninsula lithosphere through the Mesozoic: evidence from Middle Jurassic basaltic lavas. Lithos, 2003, 67, 163-179.	1.4	22
21	Jurassic high heat production granites associated with the Weddell Sea rift system, Antarctica. Tectonophysics, 2018, 722, 249-264.	2.2	20
22	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
23	Geochronology and geochemistry of the northern Scotia Sea: A revised interpretation of the North and West Scotia ridge junction. Earth and Planetary Science Letters, 2019, 518, 136-147.	4.4	18
24	Central volcanoes as sources for the Antarctic Peninsula Volcanic Group. Antarctic Science, 1994, 6, 365-374.	0.9	17
25	Submarine caldera and other volcanic observations in Southern Thule, South Sandwich Islands. Antarctic Science, 1998, 10, 171-172.	0.9	16
26	Chapter 3.1aâ€ƒAntarctic Peninsula and South Shetland Islands: volcanology. Geological Society Memoir, 2021, 55, 185-212.	1.7	16
27	Antarctic Peninsula granitoid petrogenesis: a case study from Mount Charity, north-eastern Palmer Land. Antarctic Science, 1996, 8, 193-206.	0.9	14
28	The global relevance of the Scotia Arc: An introduction. Global and Planetary Change, 2015, 125, A1-A8.	3.5	12
29	Chapter 3.1bâ€ƒAntarctic Peninsula and South Shetland Islands: petrology. Geological Society Memoir, 2021, 55, 213-226.	1.7	10
30	Chapter 2.2aâ€ƒPalmer Land and Graham Land volcanic groups (Antarctic Peninsula): volcanology. Geological Society Memoir, 2021, 55, 121-138.	1.7	7
31	Geochronology and geochemistry of the South Scotia Ridge: Miocene island arc volcanism of the Scotia Sea. Global and Planetary Change, 2021, 205, 103615.	3.5	5
32	Chapter 2.2bâ€ƒPalmer Land and Graham Land volcanic groups (Antarctic Peninsula): petrology. Geological Society Memoir, 2021, 55, 139-156.	1.7	3
33	Ultramafic mantle xenoliths in the Late Cenozoic volcanic rocks of the Antarctic Peninsula and Jones Mountains, West Antarctica. Geological Society Memoir, 2023, 56, 101-114.	1.7	1