

Robert D Larter

List of Publications by Year in descending order

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125
papers

6,411
citations

57681

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h-index

84171

75
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152
all docs

152
docs citations

152
times ranked

4965
citing authors

#	ARTICLE	IF	CITATIONS
1	Cenozoic history of Antarctic glaciation and climate from onshore and offshore studies. , 2022, , 41-164.		3
2	Ice front retreat reconfigures meltwater-driven gyres modulating ocean heat delivery to an Antarctic ice shelf. Nature Communications, 2022, 13, 306.	5.8	10
3	Recognizing key sedimentary facies and their distribution in mixed turbidite“contourite depositional systems: The case of the Pacific margin of the Antarctic Peninsula. Sedimentology, 2022, 69, 1953-1991.	1.6	12
4	Subglacial Water Flow Over an Antarctic Palaeo“Ice Stream Bed. Journal of Geophysical Research F: Earth Surface, 2022, 127, .	1.0	2
5	Deep water inflow slowed offshore expansion of the West Antarctic Ice Sheet at the Eocene-Oligocene transition. Communications Earth & Environment, 2022, 3, .	2.6	3
6	Sedimentary Signatures of Persistent Subglacial Meltwater Drainage From Thwaites Glacier, Antarctica. Frontiers in Earth Science, 2022, 10, .	0.8	8
7	The International Bathymetric Chart of the Southern Ocean Version 2. Scientific Data, 2022, 9, .	2.4	28
8	History of Anvers-Hugo Trough, western Antarctic Peninsula shelf, since the Last Glacial Maximum. Part II: Palaeo-productivity and palaeoceanographic changes during the Last Glacial Transition. Quaternary Science Reviews, 2022, , 107503.	1.4	0
9	Pathways and modification of warm water flowing beneath Thwaites Ice Shelf, West Antarctica. Science Advances, 2021, 7, .	4.7	39
10	Morphometry of bedrock meltwater channels on Antarctic inner continental shelves: Implications for channel development and subglacial hydrology. Geomorphology, 2020, 370, 107369.	1.1	10
11	Temperate rainforests near the South Pole during peak Cretaceous warmth. Nature, 2020, 580, 81-86.	13.7	69
12	Past ice sheet“seabed interactions in the northeastern Weddell Sea embayment, Antarctica. Cryosphere, 2020, 14, 2115-2135.	1.5	7
13	New gravity-derived bathymetry for the Thwaites, Crosson, and Dotson ice shelves revealing two ice shelf populations. Cryosphere, 2020, 14, 2869-2882.	1.5	25
14	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.	1.5	27
15	Past water flow beneath Pine Island and Thwaites glaciers, West Antarctica. Cryosphere, 2019, 13, 1959-1981.	1.5	25
16	Subglacial hydrological control on flow of an Antarctic Peninsula palaeo-ice stream. Cryosphere, 2019, 13, 1583-1596.	1.5	21
17	Fauna of the Kemp Caldera and its upper bathyal hydrothermal vents (South Sandwich Arc,) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tj ETQq1 1 0.784314 rgBT /Overlock 10	1.1	15
18	Morphological and geological features of Drake Passage, Antarctica, from a new digital bathymetric model. Journal of Maps, 2019, 15, 49-59.	1.0	19

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19	Bathymetric controls on calving processes at Pine Island Glacier. <i>Cryosphere</i> , 2018, 12, 2039-2050.	1.5	20
20	Calibrated Seismic Imaging of Eddy-Dominated Warm-Water Transport Across the Bellingshausen Sea, Southern Ocean. <i>Journal of Geophysical Research: Oceans</i> , 2018, 123, 3072-3099.	1.0	18
21	Deglaciation and future stability of the Coats Land ice margin, Antarctica. <i>Cryosphere</i> , 2018, 12, 2383-2399.	1.5	13
22	Evidence of marine ice-cliff instability in Pine Island Bay from iceberg-keel plough marks. <i>Nature</i> , 2017, 550, 506-510.	13.7	57
23	Neogene to Quaternary stratigraphic evolution of the Antarctic Peninsula, Pacific Margin offshore of Adelaide Island: Transitions from a non-glacial, through glacially-influenced to a fully glacial state. <i>Global and Planetary Change</i> , 2017, 156, 80-111.	1.6	24
24	The periodic topography of ice stream beds: Insights from the Fourier spectra of mega-scale glacial lineations. <i>Journal of Geophysical Research F: Earth Surface</i> , 2017, 122, 1355-1373.	1.0	30
25	West Antarctic Ice Sheet retreat driven by Holocene warm water incursions. <i>Nature</i> , 2017, 547, 43-48.	13.7	109
26	MeBo70 Seabed Drilling on a Polar Continental Shelf: Operational Report and Lessons From Drilling in the Amundsen Sea Embayment of West Antarctica. <i>Geochemistry, Geophysics, Geosystems</i> , 2017, 18, 4235-4250.	1.0	9
27	Debris-flow deposits on the West Antarctic continental slope. <i>Geological Society Memoir</i> , 2016, 46, 375-376.	0.9	1
28	Iceberg ploughmarks and associated sediment ridges on the southern Weddell Sea margin. <i>Geological Society Memoir</i> , 2016, 46, 289-290.	0.9	4
29	Submarine gullies on the southern Weddell Sea slope, Antarctica. <i>Geological Society Memoir</i> , 2016, 46, 383-384.	0.9	1
30	Components of an Antarctic trough-mouth fan: examples from the Cray Fan, Weddell Sea. <i>Geological Society Memoir</i> , 2016, 46, 377-378.	0.9	3
31	Mapping submarine glacial landforms using acoustic methods. <i>Geological Society Memoir</i> , 2016, 46, 17-40.	0.9	24
32	Bedrock channels in Pine Island Bay, West Antarctica. <i>Geological Society Memoir</i> , 2016, 46, 217-218.	0.9	4
33	Large sediment drifts on the upper continental rise west of the Antarctic Peninsula. <i>Geological Society Memoir</i> , 2016, 46, 401-402.	0.9	2
34	A glacial landform assemblage from an inter-ice stream setting in the eastern Amundsen Sea Embayment, West Antarctica. <i>Geological Society Memoir</i> , 2016, 46, 349-352.	0.9	7
35	Submarine landform assemblage produced beneath the Dotson-Getz palaeo-ice stream, West Antarctica. <i>Geological Society Memoir</i> , 2016, 46, 345-348.	0.9	5
36	Subglacial meltwater channels in Marguerite Trough, western Antarctic Peninsula. <i>Geological Society Memoir</i> , 2016, 46, 215-216.	0.9	3

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37	Crag-and-tail features on the Amundsen Sea continental shelf, West Antarctica. Geological Society Memoir, 2016, 46, 199-200.	0.9	6
38	Submarine glacial-landform distribution across the West Antarctic margin, from grounding line to slope: the Pine Island–Thwaites ice-stream system. Geological Society Memoir, 2016, 46, 493-500.	0.9	9
39	Bathymetry and geological setting of the South Sandwich Islands volcanic arc. Antarctic Science, 2016, 28, 293-303.	0.5	27
40	Configuration of the Northern Antarctic Peninsula Ice Sheet at LGM based on a new synthesis of seabed imagery. Cryosphere, 2015, 9, 613-629.	1.5	37
41	Reconstruction of changes in the Amundsen Sea and Bellingshausen Sea sector of the West Antarctic Ice Sheet since the Last Glacial Maximum. Quaternary Science Reviews, 2014, 100, 55-86.	1.4	94
42	Rapid Thinning of Pine Island Glacier in the Early Holocene. Science, 2014, 343, 999-1001.	6.0	67
43	New constraints on the timing of West Antarctic Ice Sheet retreat in the eastern Amundsen Sea since the Last Glacial Maximum. Global and Planetary Change, 2014, 122, 224-237.	1.6	41
44	A community-based geological reconstruction of Antarctic Ice Sheet deglaciation since the Last Glacial Maximum. Quaternary Science Reviews, 2014, 100, 1-9.	1.4	228
45	A new bathymetric compilation for the South Orkney Islands region, Antarctic Peninsula (49°S–39°W). Tj ETQq1 1 0.784314 rgBT Geophysics, Geosystems, 2014, 15, 2494-2514.	1.0	29
46	Reconstruction of ice-sheet changes in the Antarctic Peninsula since the Last Glacial Maximum. Quaternary Science Reviews, 2014, 100, 87-110.	1.4	129
47	Reconstruction of changes in the Weddell Sea sector of the Antarctic Ice Sheet since the Last Glacial Maximum. Quaternary Science Reviews, 2014, 100, 111-136.	1.4	85
48	Geomorphic signature of Antarctic submarine gullies: Implications for continental slope processes. Marine Geology, 2013, 337, 112-124.	0.9	48
49	Palaeoenvironmental records from the West Antarctic Peninsula drift sediments over the last 75 ka. Geological Society Special Publication, 2013, 381, 263-276.	0.8	5
50	Arctic and Antarctic submarine gullies—A comparison of high latitude continental margins. Geomorphology, 2013, 201, 449-461.	1.1	37
51	First geomorphological record and glacial history of an inter-ice stream ridge on the West Antarctic continental shelf. Quaternary Science Reviews, 2013, 61, 47-61.	1.4	43
52	Seabed corrugations beneath an Antarctic ice shelf revealed by autonomous underwater vehicle survey: Origin and implications for the history of Pine Island Glacier. Journal of Geophysical Research F: Earth Surface, 2013, 118, 1356-1366.	1.0	46
53	Seismic stratigraphic record of the Amundsen Sea Embayment shelf from pre-glacial to recent times: Evidence for a dynamic West Antarctic ice sheet. Marine Geology, 2013, 344, 115-131.	0.9	54
54	Heat-flow determinations of basement age in small oceanic basins of the southern central Scotia Sea. Geological Society Special Publication, 2013, 381, 139-150.	0.8	20

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55	Paleo ice flow and subglacial meltwater dynamics in Pine Island Bay, West Antarctica. <i>Cryosphere</i> , 2013, 7, 249-262.	1.5	91
56	Grounding-line retreat of the West Antarctic Ice Sheet from inner Pine Island Bay. <i>Geology</i> , 2013, 41, 35-38.	2.0	77
57	Tectonic Deformation in the Upper Crust and Sediments at the South Shetland Trench. <i>Antarctic Research Series</i> , 2013, , 157-166.	0.2	6
58	The Discovery of New Deep-Sea Hydrothermal Vent Communities in the Southern Ocean and Implications for Biogeography. <i>PLoS Biology</i> , 2012, 10, e1001234.	2.6	225
59	Marine geological constraints for the grounding-line position of the Antarctic Ice Sheet on the southern Weddell Sea shelf at the Last Glacial Maximum. <i>Quaternary Science Reviews</i> , 2012, 32, 25-47.	1.4	38
60	Late Quaternary grounded ice extent in the Filchner Trough, Weddell Sea, Antarctica: new marine geophysical evidence. <i>Quaternary Science Reviews</i> , 2012, 53, 111-122.	1.4	41
61	Antarctic topography at the Eocene–Oligocene boundary. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2012, 335-336, 24-34.	1.0	151
62	Did massive glacial dewatering modify sedimentary structures on the Amundsen Sea Embayment shelf, West Antarctica?. <i>Global and Planetary Change</i> , 2012, 92-93, 8-16.	1.6	9
63	Southern Weddell Sea shelf edge geomorphology: Implications for gully formation by the overflow of high-salinity water. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	23
64	Inland thinning of West Antarctic Ice Sheet steered along subglacial rifts. <i>Nature</i> , 2012, 487, 468-471.	13.7	80
65	Deglacial history of the West Antarctic Ice Sheet in the western Amundsen Sea Embayment. <i>Quaternary Science Reviews</i> , 2011, 30, 488-505.	1.4	91
66	A new Holocene relative sea level curve for the South Shetland Islands, Antarctica. <i>Quaternary Science Reviews</i> , 2011, 30, 3152-3170.	1.4	100
67	Provenance changes between recent and glacial-time sediments in the Amundsen Sea embayment, West Antarctica: clay mineral assemblage evidence. <i>Antarctic Science</i> , 2011, 23, 471-486.	0.5	45
68	Till genesis at the bed of an Antarctic Peninsula palaeo-ice stream as indicated by micromorphological analysis. <i>Boreas</i> , 2011, 40, 498-517.	1.2	39
69	Streaming flow of an Antarctic Peninsula palaeo-ice stream, both by basal sliding and deformation of substrate. <i>Journal of Glaciology</i> , 2011, 57, 596-608.	1.1	45
70	An improved bathymetry compilation for the Bellingshausen Sea, Antarctica, to inform ice-sheet and ocean models. <i>Cryosphere</i> , 2011, 5, 95-106.	1.5	35
71	Flow and retreat of the Late Quaternary Pine Island–Thwaites palaeo-ice stream, West Antarctica. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	93
72	Comment on Shaw J., Pugin, A. and Young, R. (2008): ‘A meltwater origin for Antarctic shelf bedforms with special attention to megalineations’, <i>Geomorphology</i> 102, 364–375. <i>Geomorphology</i> , 2010, 117, 195-198.	1.1	16

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73	The sedimentary legacy of a palaeo-ice stream on the shelf of the southern Bellingshausen Sea: Clues to West Antarctic glacial history during the Late Quaternary. <i>Quaternary Science Reviews</i> , 2010, 29, 2741-2763.	1.4	58
74	Subglacial bedforms reveal complex basal regime in a zone of paleo-ice stream convergence, Amundsen Sea embayment, West Antarctica. <i>Geology</i> , 2009, 37, 411-414.	2.0	102
75	The sediment infill of subglacial meltwater channels on the West Antarctic continental shelf. <i>Quaternary Research</i> , 2009, 71, 190-200.	1.0	52
76	Morphology of the upper continental slope in the Bellingshausen and Amundsen Seas – Implications for sedimentary processes at the shelf edge of West Antarctica. <i>Marine Geology</i> , 2009, 258, 100-114.	0.9	71
77	Clay mineral provenance of sediments in the southern Bellingshausen Sea reveals drainage changes of the West Antarctic Ice Sheet during the Late Quaternary. <i>Marine Geology</i> , 2009, 265, 1-18.	0.9	30
78	Mechanisms of Holocene palaeoenvironmental change in the Antarctic Peninsula region. <i>Holocene</i> , 2009, 19, 51-69.	0.9	167
79	Late Cenozoic ice sheet cyclicity in the western Amundsen Sea Embayment – Evidence from seismic records. <i>Global and Planetary Change</i> , 2009, 69, 162-169.	1.6	17
80	Animated tectonic reconstruction of the Southern Pacific and alkaline volcanism at its convergent margins since Eocene times. <i>Tectonophysics</i> , 2009, 464, 21-29.	0.9	46
81	Bedform signature of a West Antarctic palaeo-ice stream reveals a multi-temporal record of flow and substrate control. <i>Quaternary Science Reviews</i> , 2009, 28, 2774-2793.	1.4	133
82	West Antarctic Rift System in the Antarctic Peninsula. <i>Geophysical Research Letters</i> , 2009, 36, .	1.5	37
83	A major trough-mouth fan on the continental margin of the Bellingshausen Sea, West Antarctica: The Belgica Fan. <i>Marine Geology</i> , 2008, 252, 129-140.	0.9	87
84	Chapter 10 Middle Miocene to Pliocene History of Antarctica and the Southern Ocean. <i>Developments in Earth and Environmental Sciences</i> , 2008, 8, 401-463.	0.1	19
85	A new bathymetric compilation highlighting extensive paleo-ice sheet drainage on the continental shelf, South Georgia, sub-Antarctica. <i>Geochemistry, Geophysics, Geosystems</i> , 2008, 9, .	1.0	50
86	Volcanic time-markers for Marine Isotopic Stages 6 and 5 in Southern Ocean sediments and Antarctic ice cores: implications for tephra correlations between palaeoclimatic records. <i>Quaternary Science Reviews</i> , 2008, 27, 518-540.	1.4	46
87	Chapter 5 Cenozoic Climate History from Seismic Reflection and Drilling Studies on the Antarctic Continental Margin. <i>Developments in Earth and Environmental Sciences</i> , 2008, 8, 115-234.	0.1	12
88	LIFE HUNG BY A THREAD: ENDURANCE OF ANTARCTIC FAUNA IN GLACIAL PERIODS. <i>Ecology</i> , 2008, 89, 682-692.	1.5	133
89	Silicic magmas of Protector Shoal, South Sandwich arc: indicators of generation of primitive continental crust in an island arc. <i>Geological Magazine</i> , 2007, 144, 179-190.	0.9	38
90	Margin architecture reveals the transition to the modern Antarctic ice sheet ca. 3 Ma: COMMENT AND REPLY: COMMENT. <i>Geology</i> , 2007, 35, e139-e139.	2.0	4

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91	Bathymetry of the Amundsen Sea continental shelf: Implications for geology, oceanography, and glaciology. <i>Geochemistry, Geophysics, Geosystems</i> , 2007, 8, .	1.0	127
92	Seabed morphology and the bottom-current pathways around Rosemary Bank seamount, northern Rockall Trough, North Atlantic. <i>Marine and Petroleum Geology</i> , 2006, 23, 165-181.	1.5	46
93	Variability in Cenozoic sedimentation along the continental rise of the Bellingshausen Sea, West Antarctica. <i>Marine Geology</i> , 2006, 227, 279-298.	0.9	39
94	Miocene reversal of bottom water flow along the Pacific Margin of the Antarctic Peninsula: Stratigraphic evidence from a contourite sedimentary tail. <i>Marine Geology</i> , 2006, 228, 93-116.	0.9	93
95	Risks posed to the Antarctic marine environment by acoustic instruments: a structured analysis. <i>Antarctic Science</i> , 2005, 17, 533-540.	0.5	5
96	On the origin of Antarctic marine benthic community structure. <i>Trends in Ecology and Evolution</i> , 2005, 20, 534-540.	4.2	242
97	High-resolution animated tectonic reconstruction of the South Pacific and West Antarctic Margin. <i>Geochemistry, Geophysics, Geosystems</i> , 2004, 5, .	1.0	133
98	Life of the Bellingshausen plate. <i>Geophysical Research Letters</i> , 2004, 31, n/a-n/a.	1.5	26
99	Miocene changes in bottom current regime recorded in continental rise sediments on the Pacific margin of the Antarctic Peninsula. <i>Geophysical Research Letters</i> , 2004, 31, .	1.5	19
100	Magma genesis and mantle flow at a subducting slab edge: the South Sandwich arc-basin system. <i>Earth and Planetary Science Letters</i> , 2004, 227, 17-35.	1.8	125
101	Intra-oceanic subduction systems: introduction. <i>Geological Society Special Publication</i> , 2003, 219, 1-17.	0.8	50
102	Magmatism in the South Sandwich arc. <i>Geological Society Special Publication</i> , 2003, 219, 285-313.	0.8	46
103	Structure and tectonic evolution of the South Sandwich arc. <i>Geological Society Special Publication</i> , 2003, 219, 255-284.	0.8	56
104	Slice of intraoceanic arc: Insights from the first multichannel seismic reflection profile across the South Sandwich island arc. <i>Geology</i> , 2002, 30, 819.	2.0	29
105	Sediment subduction, subduction erosion, and strain regime in the northern South Sandwich forearc. <i>Journal of Geophysical Research</i> , 2002, 107, EPM 5-1-EPM 5-24.	3.3	50
106	Tectonic evolution of the Pacific margin of Antarctica 2. Structure of Late Cretaceous-early Tertiary plate boundaries in the Bellingshausen Sea from seismic reflection and gravity data. <i>Journal of Geophysical Research</i> , 2002, 107, EPM 6-1-EPM 6-20.	3.3	24
107	Post-subduction margin structures along Boyd Strait, Antarctic Peninsula. <i>Tectonophysics</i> , 2002, 346, 187-200.	0.9	21
108	Tectonic evolution of the Pacific margin of Antarctica 1. Late Cretaceous tectonic reconstructions. <i>Journal of Geophysical Research</i> , 2002, 107, EPM 5-1-EPM 5-19.	3.3	126

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109	Geometry and development of glacial continental margin depositional systems in the Bellingshausen Sea. <i>Marine Geology</i> , 2000, 162, 277-302.	0.9	67
110	Late Cretaceous to early Tertiary subduction history of the Antarctic Peninsula. <i>Journal of the Geological Society</i> , 1998, 155, 255-268.	0.9	73
111	South sandwich slices reveal much about arc structure, geodynamics, and composition. <i>Eos</i> , 1998, 79, 281-281.	0.1	20
112	Subduction influence on magma supply at the East Scotia Ridge. <i>Earth and Planetary Science Letters</i> , 1997, 150, 261-275.	1.8	84
113	The Antarctic Peninsula Continental Margin Northwest of Anvers Island. , 1997, , 272-275.		0
114	Giant sediment drifts on the continental rise west of the Antarctic Peninsula. <i>Geo-Marine Letters</i> , 1996, 16, 65-75.	0.5	135
115	Relict subglacial deltas on the Antarctic Peninsula outer shelf. <i>Geology</i> , 1995, 23, 33.	2.0	100
116	Forearc tectonic evolution of the South Shetland Margin, Antarctic Peninsula. <i>Tectonics</i> , 1994, 13, 1345-1370.	1.3	93
117	The depositional pattern and distribution of glacial-interglacial sequences on the Antarctic Peninsula Pacific margin. <i>Marine Geology</i> , 1993, 109, 203-219.	0.9	97
118	Trench-proximal volcanism following ridge crest-trench collision along the Antarctic Peninsula. <i>Tectonics</i> , 1993, 12, 897-910.	1.3	57
119	Effects of ridge crest-trench interaction on Antarctic-Phoenix Spreading: Forces on a young subducting plate. <i>Journal of Geophysical Research</i> , 1991, 96, 19583-19607.	3.3	202
120	Seismic stratigraphy of the Antarctic Peninsula Pacific margin: A record of Pliocene-Pleistocene ice volume and paleoclimate. <i>Geology</i> , 1989, 17, 731.	2.0	123
121	Cenozoic Tectonic, Sedimentary and Glacial History of the Continental Shelf West Of Graham Land, Antarctic Peninsula. <i>Antarctic Research Series</i> , 0, , 1-27.	0.2	25
122	The History of Sedimentation on the Continental Rise West of the Antarctic Peninsula. <i>Antarctic Research Series</i> , 0, , 29-49.	0.2	40
123	Deep-Tow Boomer Survey on the Antarctic Peninsula Pacific Margin: An Investigation of the Morphology and Acoustic Characteristics of the Late Quaternary Sedimentary Deposits on the Outer Continental Shelf and Upper Slope. <i>Antarctic Research Series</i> , 0, , 97-121.	0.2	18
124	Neogene Interaction of Tectonic and Glacial Processes at the Pacific Margin of the Antarctic Peninsula. , 0, , 165-186.		33
125	Basal melting, roughness and structural integrity of ice shelves. <i>Geophysical Research Letters</i> , 0, , .	1.5	3