

Leanne Armand

List of Publications by Year in descending order

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Version: 2024-02-01

64
papers

4,565
citations

136950

32
h-index

118850

62
g-index

71
all docs

71
docs citations

71
times ranked

4777
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of natural iron fertilization on carbon sequestration in the Southern Ocean. <i>Nature</i> , 2007, 446, 1070-1074.	27.8	707
2	Constraints on the magnitude and patterns of ocean cooling at the Last Glacial Maximum. <i>Nature Geoscience</i> , 2009, 2, 127-132.	12.9	517
3	Sea-surface temperature and sea ice distribution of the Southern Ocean at the EPILOG Last Glacial Maximum—a circum-Antarctic view based on siliceous microfossil records. <i>Quaternary Science Reviews</i> , 2005, 24, 869-896.	3.0	470
4	The biogeography of major diatom taxa in Southern Ocean sediments. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2005, 223, 93-126.	2.3	209
5	A global diatom database — abundance, biovolume and biomass in the world ocean. <i>Earth System Science Data</i> , 2012, 4, 149-165.	9.9	183
6	The Southern Hemisphere westerlies in the Australasian sector over the last glacial cycle: a synthesis. <i>Quaternary International</i> , 2004, 118-119, 23-53.	1.5	182
7	The biogeography of major diatom taxa in Southern Ocean sediments: 2. Open ocean related species. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2005, 223, 66-92.	2.3	176
8	Late Quaternary sea ice history in the Indian sector of the Southern Ocean as recorded by diatom assemblages. <i>Marine Micropaleontology</i> , 2004, 50, 209-223.	1.2	168
9	Climate variability over the last 35,000 years recorded in marine and terrestrial archives in the Australian region: an OZ-INTIMATE compilation. <i>Quaternary Science Reviews</i> , 2013, 74, 21-34.	3.0	162
10	Insights into Southern Ocean carbon export from the $\delta^{13}C$ of particles and dissolved inorganic carbon during the SOIREE iron release experiment. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2001, 48, 2655-2680.	1.4	108
11	Late summer diatom biomass and community structure on and around the naturally iron-fertilised Kerguelen Plateau in the Southern Ocean. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2008, 55, 653-676.	1.4	107
12	Impact of iron on silicon utilization by diatoms in the Southern Ocean: A case study of Si/N cycle decoupling in a naturally iron-enriched area. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2008, 55, 801-819.	1.4	96
13	Ancient DNA from marine sediments: Precautions and considerations for seafloor coring, sample handling and data generation. <i>Earth-Science Reviews</i> , 2019, 196, 102887.	9.1	90
14	The biogeography of major diatom taxa in Southern Ocean surface sediments: 3. Tropical/Subtropical species. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2005, 223, 49-65.	2.3	84
15	A review of the Australian—New Zealand sector of the Southern Ocean over the last 30 ka (Aus-INTIMATE project). <i>Quaternary Science Reviews</i> , 2013, 74, 35-57.	3.0	77
16	Continental shelf drift deposit indicates non-steady state Antarctic bottom water production in the Holocene. <i>Marine Geology</i> , 2001, 179, 1-8.	2.1	53
17	Biovolume and biomass estimates of key diatoms in the Southern Ocean. <i>Aquatic Microbial Ecology</i> , 2007, 48, 295-308.	1.8	53
18	Export fluxes in a naturally iron-fertilized area of the Southern Ocean — Part 2: Importance of diatom resting spores and faecal pellets for export. <i>Biogeosciences</i> , 2015, 12, 3171-3195.	3.3	51

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19	Potential and limitations of marine and ice core sea ice proxies: an example from the Indian Ocean sector. <i>Quaternary Science Reviews</i> , 2010, 29, 296-302.	3.0	49
20	Diatoms preserved in surface sediments of the northeastern Kerguelen Plateau. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2008, 55, 677-692.	1.4	47
21	Abundance and richness of key Antarctic seafloor fauna correlates with modelled food availability. <i>Nature Ecology and Evolution</i> , 2018, 2, 71-80.	7.8	46
22	Phytoplankton composition under contrasting oceanographic conditions: Upwelling and downwelling (Eastern Australia). <i>Continental Shelf Research</i> , 2014, 75, 54-67.	1.8	45
23	Geochemical particle fluxes in the Southern Indian Ocean seasonal ice zone: Prydz Bay region, East Antarctica. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2004, 51, 307-332.	1.4	43
24	The risk of harmful algal blooms (HABs) in the oyster-growing estuaries of New South Wales, Australia. <i>Environmental Monitoring and Assessment</i> , 2013, 185, 5295-5316.	2.7	42
25	Sourcing the iron in the naturally fertilised bloom around the Kerguelen Plateau: particulate trace metal dynamics. <i>Biogeosciences</i> , 2015, 12, 739-755.	3.3	42
26	A diatom and benthic foraminiferal record from the South Tasman Rise (southeastern Indian Ocean): implications for palaeoceanographic changes for the last 200,000 years. <i>Marine Micropaleontology</i> , 1999, 38, 69-89.	1.2	41
27	DIATOM SPECIES OF THE GENUS RHIZOLENIA FROM SOUTHERN OCEAN SEDIMENTS: DISTRIBUTION AND TAXONOMIC NOTES. <i>Diatom Research</i> , 2001, 16, 259-294.	1.2	41
28	A decadal decline in relative abundance and a shift in microphytoplankton composition at a long-term coastal station off southeast Australia. <i>Limnology and Oceanography</i> , 2014, 59, 519-531.	3.1	38
29	Distributions of highly branched isoprenoid alkenes and other algal lipids in surface waters from East Antarctica: Further insights for biomarker-based paleo sea-ice reconstruction. <i>Organic Geochemistry</i> , 2016, 95, 71-80.	1.8	38
30	Latitudinal and temporal distributions of diatom populations in the pelagic waters of the Subantarctic and Polar Frontal zones of the Southern Ocean and their role in the biological pump. <i>Biogeosciences</i> , 2015, 12, 5309-5337.	3.3	36
31	Seasonal dynamics in diatom and particulate export fluxes to the deep sea in the Australian sector of the southern Antarctic Zone. <i>Journal of Marine Systems</i> , 2015, 142, 62-74.	2.1	36
32	First records of winter sea ice concentration in the southwest Pacific sector of the Southern Ocean. <i>Paleoceanography</i> , 2015, 30, 1525-1539.	3.0	34
33	The diatom genus <i>Pseudo-nitzschia</i> (<i>Bacillariophyceae</i>) in New South Wales, Australia: morphotaxonomy, molecular phylogeny, toxicity, and distribution. <i>Journal of Phycology</i> , 2013, 49, 765-785.	2.3	32
34	Composition of diatom communities and their contribution to plankton biomass in the naturally iron-fertilized region of Kerguelen in the Southern Ocean. <i>FEMS Microbiology Ecology</i> , 2016, 92, fiw171.	2.7	32
35	The fate of diatom valves in the Subantarctic and Polar Frontal Zones of the Southern Ocean: Sediment trap versus surface sediment assemblages. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2016, 457, 129-143.	2.3	27
36	Taxon-specific responses of Southern Ocean diatoms to Fe enrichment revealed by synchrotron radiation FTIR microspectroscopy. <i>Biogeosciences</i> , 2014, 11, 5795-5808.	3.3	24

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37	Plio-Quaternary sedimentation on the Wilkes land continental rise: preliminary results. Deep-Sea Research Part II: Topical Studies in Oceanography, 2003, 50, 1529-1562.	1.4	23
38	Settling fluxes of diatoms to the interior of the Antarctic circumpolar current along 170°W. Deep-Sea Research Part I: Oceanographic Research Papers, 2014, 93, 1-13.	1.4	23
39	Marine diatoms as indicators of modern changes in oceanographic conditions. , 2010, , 373-400.		22
40	Interactions between seasonality and oceanic forcing drive the phytoplankton variability in the tropical-temperate transition zone (~ 30°S) of Eastern Australia. Journal of Marine Systems, 2015, 144, 92-106.	2.1	21
41	Efficient silicon recycling in summer in both the Polar Frontal and Subantarctic Zones of the Southern Ocean. Marine Ecology - Progress Series, 2011, 435, 47-61.	1.9	20
42	First reports of <i>Pseudo-nitzschia micropora</i> and <i>Pseudo-nitzschia hasleana</i> (Bacillariaceae) from the Southern Hemisphere: Morphological, molecular and toxicological characterization. Phycological Research, 2013, 61, 237-248.	1.6	19
43	The Contrasting Ecology of Temperate Macrotidal and Microtidal Estuaries. Oceanography and Marine Biology, 2016, , 387-412.	1.0	17
44	Statistical modeling of Southern Ocean marine diatom proxy and winter sea ice data: Model comparison and developments. Progress in Oceanography, 2015, 131, 100-112.	3.2	14
45	Comparison of the cross-shelf phytoplankton distribution of two oceanographically distinct regions off Australia. Journal of Marine Systems, 2015, 148, 26-38.	2.1	14
46	Continental slope and rise geomorphology seaward of the Totten Glacier, East Antarctica (112°E-122°E). Marine Geology, 2020, 427, 106221.	2.1	14
47	Upper slope processes and seafloor ecosystems on the Sabrina continental slope, East Antarctica. Marine Geology, 2020, 422, 106091.	2.1	13
48	A new approach to testing the agreement of two phytoplankton quantification techniques: Microscopy and CHEMTAX. Limnology and Oceanography: Methods, 2015, 13, 425-437.	2.0	11
49	Quantitative comparison of taxa and taxon concepts in the diatom genus <i>Fragilariopsis</i> : a case study on using slide scanning, multiexpert image annotation, and image analysis in taxonomy ¹ . Journal of Phycology, 2018, 54, 703-719.	2.3	10
50	Temporal changes in size distributions of the Southern Ocean diatom <i>Fragilariopsis kerguelensis</i> through high-throughput microscopy of sediment trap samples. Diatom Research, 2019, 34, 133-147.	1.2	10
51	Abiotic degradation of highly branched isoprenoid alkenes and other lipids in the water column off East Antarctica. Marine Chemistry, 2019, 210, 34-47.	2.3	10
52	Controls Since the mid-Pleistocene Transition on Sedimentation and Primary Productivity Downslope of Totten Glacier, East Antarctica. Paleooceanography and Paleoclimatology, 2020, 35, e2020PA003981.	2.9	10
53	Indices based on silicoflagellate assemblages offer potential for paleo-reconstructions of the main oceanographic zones of the Southern Ocean. Geo-Marine Letters, 2016, 36, 271-280.	1.1	9
54	First observations of living sea-ice diatom agglomeration to tintinnid loricae in East Antarctica. Journal of Plankton Research, 2017, 39, 795-802.	1.8	9

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55	Variability in diatom and silicoflagellate assemblages during mid-Pliocene glacial-interglacial cycles determined in Hole U1361A of IODP Expedition 318, Antarctic Wilkes Land Margin. <i>Marine Micropaleontology</i> , 2018, 139, 28-41.	1.2	9
56	Diatom species fluxes in the seasonally ice-covered Antarctic Zone: New data from offshore Prydz Bay and comparison with other regions from the eastern Antarctic and western Pacific sectors of the Southern Ocean. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2019, 161, 92-104.	1.4	9
57	Scratching the Surface: A Marine Sediment Provenance Record From the Continental Slope of Central Wilkes Land, East Antarctica. <i>Geochemistry, Geophysics, Geosystems</i> , 2020, 21, e2020GC009156.	2.5	9
58	Biogeochemical flux and phytoplankton succession: A year-long sediment trap record in the Australian sector of the Subantarctic Zone. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2017, 121, 143-159.	1.4	7
59	The influence of Totten Glacier on the Late Cenozoic sedimentary record. <i>Antarctic Science</i> , 2020, 32, 288-300.	0.9	6
60	The Southern Ocean Radiolarian (SO-RAD) dataset: a new compilation of modern radiolarian census data. <i>Earth System Science Data</i> , 2021, 13, 5441-5453.	9.9	4
61	Diversity and taxonomic identification of <i>Shionodiscus</i> spp. in the Australian sector of the Subantarctic Zone. <i>Diatom Research</i> , 2017, 32, 295-307.	1.2	3
62	NEOGENE POLAR MARINE DIATOM WORKSHOP, 16-17 AUGUST 2005, YAMAGATA, JAPAN. <i>Diatom Research</i> , 2006, 21, 227-228.	1.2	2
63	3rd Polar Marine Diatom Taxonomy and Ecology Workshop Department of Biological Sciences, Macquarie University, Sydney, Australia, 4-8 July 2011. <i>Diatom Research</i> , 2011, 26, 341-342.	1.2	0
64	Using a New Fluorescent Probe of Silicification to Measure Species-Specific Activities of Diatoms Under Varying Environmental Conditions. , 2010, , 283-287.		0