

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	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
2	Upper slope processes and seafloor ecosystems on the Sabrina continental slope, East Antarctica. <i>Marine Geology</i> , 2020, 422, 106091.	2.1	13
3	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
4	Controls Since the mid-Pleistocene Transition on Sedimentation and Primary Productivity Downslope of Totten Glacier, East Antarctica. <i>Paleoceanography and Paleoclimatology</i> , 2020, 35, e2020PA003981.	2.9	10
5	The influence of Totten Glacier on the Late Cenozoic sedimentary record. <i>Antarctic Science</i> , 2020, 32, 288-300.	0.9	6
6	Continental slope and rise geomorphology seaward of the Totten Glacier, East Antarctica (112°E-122°E). <i>Marine Geology</i> , 2020, 427, 106221.	2.1	14
7	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
8	Temporal changes in size distributions of the Southern Ocean diatom <i>Fragilariopsis kerguelensis</i> through high-throughput microscopy of sediment trap samples. <i>Diatom Research</i> , 2019, 34, 133-147.	1.2	10
9	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
10	Abiotic degradation of highly branched isoprenoid alkenes and other lipids in the water column off East Antarctica. <i>Marine Chemistry</i> , 2019, 210, 34-47.	2.3	10
11	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
12	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. <i>Journal of Phycology</i> , 2018, 54, 703-719.	2.3	10
13	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
14	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
15	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
16	First observations of living sea-ice diatom agglomeration to tintinnid loricae in East Antarctica. <i>Journal of Plankton Research</i> , 2017, 39, 795-802.	1.8	9
17	Indices based on silicoflagellate assemblages offer potential for paleo-reconstructions of the main oceanographic zones of the Southern Ocean. <i>Geo-Marine Letters</i> , 2016, 36, 271-280.	1.1	9
18	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

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19	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
20	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
21	The Contrasting Ecology of Temperate Macrotidal and Microtidal Estuaries. <i>Oceanography and Marine Biology</i> , 2016, , 387-412.	1.0	17
22	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
23	A new approach to testing the agreement of two phytoplankton quantification techniques: Microscopy and CHEMTAX. <i>Limnology and Oceanography: Methods</i> , 2015, 13, 425-437.	2.0	11
24	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
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	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
27	Statistical modeling of Southern Ocean marine diatom proxy and winter sea ice data: Model comparison and developments. <i>Progress in Oceanography</i> , 2015, 131, 100-112.	3.2	14
28	Comparison of the cross-shelf phytoplankton distribution of two oceanographically distinct regions off Australia. <i>Journal of Marine Systems</i> , 2015, 148, 26-38.	2.1	14
29	Interactions between seasonality and oceanic forcing drive the phytoplankton variability in the tropical-temperate transition zone (~ 30°S) of Eastern Australia. <i>Journal of Marine Systems</i> , 2015, 144, 92-106.	2.1	21
30	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
31	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
32	Settling fluxes of diatoms to the interior of the Antarctic circumpolar current along 170°W. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2014, 93, 1-13.	1.4	23
33	Phytoplankton composition under contrasting oceanographic conditions: Upwelling and downwelling (Eastern Australia). <i>Continental Shelf Research</i> , 2014, 75, 54-67.	1.8	45
34	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
35	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
36	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

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37	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
38	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
39	First reports of <i>Pseudo-nitzschia micropora</i> and <i>P. hasleana</i> (<i>Bacillariaceae</i>) from the Southern Hemisphere: Morphological, molecular and toxicological characterization. <i>Phycological Research</i> , 2013, 61, 237-248.	1.6	19
40	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
41	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
42	Efficient silicon recycling in summer in both the Polar Frontal and Subantarctic Zones of the Southern Ocean. <i>Marine Ecology - Progress Series</i> , 2011, 435, 47-61.	1.9	20
43	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
44	Marine diatoms as indicators of modern changes in oceanographic conditions. , 2010, , 373-400.		22
45	Using a New Fluorescent Probe of Silicification to Measure Species-Specific Activities of Diatoms Under Varying Environmental Conditions. , 2010, , 283-287.		0
46	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
47	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
48	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
49	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
50	Biovolume and biomass estimates of key diatoms in the Southern Ocean. <i>Aquatic Microbial Ecology</i> , 2007, 48, 295-308.	1.8	53
51	Effect of natural iron fertilization on carbon sequestration in the Southern Ocean. <i>Nature</i> , 2007, 446, 1070-1074.	27.8	707
52	NEOGENE POLAR MARINE DIATOM WORKSHOP, 16TH AUGUST 2005, YAMAGATA, JAPAN. <i>Diatom Research</i> , 2006, 21, 227-228.	1.2	2
53	The biogeography of major diatom taxa in Southern Ocean sediments. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2005, 223, 93-126.	2.3	209
54	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

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55	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
56	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
57	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
58	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
59	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
60	Plio-Quaternary sedimentation on the Wilkes land continental rise: preliminary results. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2003, 50, 1529-1562.	1.4	23
61	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
62	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
63	DIATOM SPECIES OF THE GENUS RHIZOSOLENIA FROM SOUTHERN OCEAN SEDIMENTS: DISTRIBUTION AND TAXONOMIC NOTES. <i>Diatom Research</i> , 2001, 16, 259-294.	1.2	41
64	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