

Alfredo MartÃ-nez-GarcÃ-a

List of Publications by Year in descending order

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73
papers

3,816
citations

147801

31
h-index

128289

60
g-index

80
all docs

80
docs citations

80
times ranked

3783
citing authors

#	ARTICLE	IF	CITATIONS
1	Iron Fertilization of the Subantarctic Ocean During the Last Ice Age. <i>Science</i> , 2014, 343, 1347-1350.	12.6	350
2	Southern Ocean dust-climate coupling over the past four million years. <i>Nature</i> , 2011, 476, 312-315.	27.8	298
3	Links between iron supply, marine productivity, sea surface temperature, and CO ₂ over the last 1.1 Ma. <i>Paleoceanography</i> , 2009, 24, .	3.0	216
4	Two Modes of Change in Southern Ocean Productivity Over the Past Million Years. <i>Science</i> , 2013, 339, 1419-1423.	12.6	194
5	Increased Dust Deposition in the Pacific Southern Ocean During Glacial Periods. <i>Science</i> , 2014, 343, 403-407.	12.6	184
6	Subpolar Link to the Emergence of the Modern Equatorial Pacific Cold Tongue. <i>Science</i> , 2010, 328, 1550-1553.	12.6	179
7	Covariation of deep Southern Ocean oxygenation and atmospheric CO ₂ through the last ice age. <i>Nature</i> , 2016, 530, 207-210.	27.8	173
8	Causes of ice age intensification across the Mid-Pleistocene Transition. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 13114-13119.	7.1	166
9	Molecular records of continental air temperature and monsoon precipitation variability in East Asia spanning the past 130,000 years. <i>Quaternary Science Reviews</i> , 2014, 83, 76-82.	3.0	118
10	Strengthening of North American dust sources during the late Pliocene (2.7 Ma). <i>Earth and Planetary Science Letters</i> , 2012, 317-318, 8-19.	4.4	101
11	Antarctic Zone nutrient conditions during the last two glacial cycles. <i>Paleoceanography</i> , 2015, 30, 845-862.	3.0	88
12	An interlaboratory study of TEX ₈₆ and BIT analysis of sediments, extracts, and standard mixtures. <i>Geochemistry, Geophysics, Geosystems</i> , 2013, 14, 5263-5285.	2.5	76
13	Changes in North Atlantic nitrogen fixation controlled by ocean circulation. <i>Nature</i> , 2013, 501, 200-203.	27.8	75
14	Deglacial pulses of deep-ocean silicate into the subtropical North Atlantic Ocean. <i>Nature</i> , 2013, 495, 495-498.	27.8	75
15	Appraisal of TEX ₈₆ and $\delta^{13}C_{org}$ thermometries in subpolar and polar regions. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 131, 213-226.	3.3	72
16	A stagnation event in the deep South Atlantic during the last interglacial period. <i>Science</i> , 2014, 346, 1514-1517.	12.6	62
17	Constraints in the application of the Branched and Isoprenoid Tetraether index as a terrestrial input proxy. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	59
18	The residence time of Southern Ocean surface waters and the 100,000-year ice age cycle. <i>Science</i> , 2019, 363, 1080-1084.	12.6	58

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19	Sea surface temperature variability in the Pacific sector of the Southern Ocean over the past 700 kyr. <i>Paleoceanography</i> , 2012, 27, .	3.0	57
20	Deep-sea coral evidence for lower Southern Ocean surface nitrate concentrations during the last ice age. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 3352-3357.	7.1	57
21	Southern Ocean upwelling, Earth's obliquity, and glacial-interglacial atmospheric CO ₂ change. <i>Science</i> , 2020, 370, 1348-1352.	12.6	57
22	Impact of glacial/interglacial sea level change on the ocean nitrogen cycle. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E6759-E6766.	7.1	55
23	The Southern Ocean during the ice ages: A review of the Antarctic surface isolation hypothesis, with comparison to the North Pacific. <i>Quaternary Science Reviews</i> , 2021, 254, 106732.	3.0	46
24	Glacial Indonesian Throughflow weakening across the Mid-Pleistocene Climatic Transition. <i>Scientific Reports</i> , 2019, 9, 16995.	3.3	44
25	Nitrogen isotope evidence for expanded ocean suboxia in the early Cenozoic. <i>Science</i> , 2019, 364, 386-389.	12.6	43
26	Co-variation of crenarchaeol and branched GDGTs in globally-distributed marine and freshwater sedimentary archives. <i>Global and Planetary Change</i> , 2012, 92-93, 275-285.	3.5	41
27	Modern planktic foraminifers in the high-latitude ocean. <i>Marine Micropaleontology</i> , 2017, 136, 1-13.	1.2	41
28	Increased nutrient supply to the Southern Ocean during the Holocene and its implications for the pre-industrial atmospheric CO ₂ rise. <i>Nature Geoscience</i> , 2018, 11, 756-760.	12.9	40
29	Enhanced stratification and seasonality in the Subarctic Pacific upon Northern Hemisphere Glaciation—New evidence from diatom-bound nitrogen isotopes, alkenones and archaeal tetraethers. <i>Earth and Planetary Science Letters</i> , 2012, 351-352, 84-94.	4.4	39
30	Time-transgressive North Atlantic productivity changes upon Northern Hemisphere glaciation. <i>Paleoceanography</i> , 2013, 28, 740-751.	3.0	39
31	Coupled Southern Ocean cooling and Antarctic ice sheet expansion during the middle Miocene. <i>Nature Geoscience</i> , 2020, 13, 634-639.	12.9	36
32	Advances in planktonic foraminifer research: New perspectives for paleoceanography. <i>Revue De Micropaleontologie</i> , 2018, 61, 113-138.	0.4	32
33	Persistent warmth across the Benguela upwelling system during the Pliocene epoch. <i>Earth and Planetary Science Letters</i> , 2014, 386, 10-20.	4.4	30
34	Glacial-interglacial dust and export production records from the Southern Indian Ocean. <i>Earth and Planetary Science Letters</i> , 2019, 525, 115716.	4.4	30
35	Megacity development and the demise of coastal coral communities: Evidence from coral skeleton δ ¹⁵ N records in the Pearl River estuary. <i>Global Change Biology</i> , 2020, 26, 1338-1353.	9.5	30
36	The isotope effect of nitrate assimilation in the Antarctic Zone: Improved estimates and paleoceanographic implications. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 247, 261-279.	3.9	28

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37	Nitrogen isotopes in tooth enamel record diet and trophic level enrichment: Results from a controlled feeding experiment. <i>Chemical Geology</i> , 2021, 563, 120047.	3.3	28
38	Transient hydrodynamic effects influence organic carbon signatures in marine sediments. <i>Nature Communications</i> , 2018, 9, 4690.	12.8	27
39	Glacial heterogeneity in Southern Ocean carbon storage abated by fast South Indian deglacial carbon release. <i>Nature Communications</i> , 2020, 11, 6192.	12.8	27
40	Arctic Ocean stratification set by sea level and freshwater inputs since the last ice age. <i>Nature Geoscience</i> , 2021, 14, 684-689.	12.9	27
41	Nitrogen isotopic composition of organic matter from a 168 year-old coral skeleton: Implications for coastal nutrient cycling in the Great Barrier Reef Lagoon. <i>Earth and Planetary Science Letters</i> , 2016, 434, 161-170.	4.4	25
42	Stepwise Weakening of the Pliocene Leeuwin Current. <i>Geophysical Research Letters</i> , 2019, 46, 8310-8319.	4.0	24
43	Determination of the Mg/Mn ratio in foraminiferal coatings: An approach to correct Mg/Ca temperatures for Mn-rich contaminant phases. <i>Earth and Planetary Science Letters</i> , 2017, 457, 335-347.	4.4	22
44	Glacial Southern Ocean freshening at the onset of the Middle Pleistocene Climate Transition. <i>Earth and Planetary Science Letters</i> , 2012, 345-348, 194-202.	4.4	21
45	Penultimate deglaciation Asian monsoon response to North Atlantic circulation collapse. <i>Nature Geoscience</i> , 2021, 14, 937-941.	12.9	21
46	Crenarchaea and phytoplankton coupling in sedimentary archives: Common trigger or metabolic dependence?. <i>Limnology and Oceanography</i> , 2011, 56, 1907-1916.	3.1	20
47	The Nitrogen Isotopic Composition of Tissue and Shell-Bound Organic Matter of Planktic Foraminifera in Southern Ocean Surface Waters. <i>Geochemistry, Geophysics, Geosystems</i> , 2020, 21, e2019GC008440.	2.5	20
48	Benefits of freeze-drying sediments for the analysis of total chlorins and alkenone concentrations in marine sediments. <i>Organic Geochemistry</i> , 2007, 38, 1002-1007.	1.8	18
49	Muted multidecadal climate variability in central Europe during cold stadial periods. <i>Nature Geoscience</i> , 2021, 14, 651-658.	12.9	18
50	Nitrogen isotopic constraints on nutrient transport to the upper ocean. <i>Nature Geoscience</i> , 2021, 14, 855-861.	12.9	17
51	Appraising GDGT-based seawater temperature indices in the Southern Ocean. <i>Organic Geochemistry</i> , 2016, 102, 93-105.	1.8	16
52	Nitrogen isotopic evidence for a shift from nitrate- to diazotroph-fueled export production in the VAHINE mesocosm experiments. <i>Biogeosciences</i> , 2016, 13, 4645-4657.	3.3	15
53	Gulf Stream intensification after the early Pliocene shoaling of the Central American Seaway. <i>Earth and Planetary Science Letters</i> , 2019, 520, 268-278.	4.4	15
54	Simultaneous extraction and chromatographic separation of n-alkanes and alkenones from glycerol dialkyl glycerol tetraethers via selective Accelerated Solvent Extraction. <i>Organic Geochemistry</i> , 2020, 143, 103979.	1.8	15

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55	Cenozoic megatooth sharks occupied extremely high trophic positions. <i>Science Advances</i> , 2022, 8, .	10.3	15
56	Temporal variation of seston biomarkers within the Humboldt Current System off northern Chile (21°S): first simultaneous records on fatty acids, alkanes and glycerol-dialkyl-glycerol-tetraethers (GDGT). <i>Advances in Oceanography and Limnology</i> , 2012, 3, 17-40.	0.6	13
57	Ice Age-Holocene Similarity of Foraminifera-Bound Nitrogen Isotope Ratios in the Eastern Equatorial Pacific. <i>Paleoceanography and Paleoclimatology</i> , 2021, 36, e2020PA004063.	2.9	13
58	Intensified organic carbon burial on the Australian shelf after the Middle Pleistocene transition. <i>Quaternary Science Reviews</i> , 2021, 262, 106965.	3.0	13
59	Multi-isotopic and trace element evidence against different formation pathways for oyster microstructures. <i>Geochimica Et Cosmochimica Acta</i> , 2021, 308, 326-352.	3.9	13
60	A Seasonal Model of Nitrogen Isotopes in the Ice Age Antarctic Zone: Support for Weakening of the Southern Ocean Upper Overturning Cell. <i>Paleoceanography and Paleoclimatology</i> , 2018, 33, 1453-1471.	2.9	12
61	Mg/Ca-temperature calibration for the benthic foraminifera <i>Melonis barleanum</i> and <i>Melonis pompilioides</i> . <i>Geochimica Et Cosmochimica Acta</i> , 2017, 217, 365-383.	3.9	10
62	Early deglacial CO ₂ release from the Sub-Antarctic Atlantic and Pacific oceans. <i>Earth and Planetary Science Letters</i> , 2021, 554, 116649.	4.4	10
63	Transfer of seston lipids during a flagellate bloom from the surface to the benthic community in the Weddell Sea. <i>Scientia Marina</i> , 2013, 77, 397-407.	0.6	10
64	Iron fertilization in the glacial ocean. <i>Past Global Change Magazine</i> , 2014, 22, 82-83.	0.1	7
65	Distribution of Glycerol Dialkyl Glycerol Tetraethers (GDGTs) in Microbial Mats From Holocene and Miocene Sabkha Sediments. <i>Frontiers in Earth Science</i> , 2019, 7, .	1.8	6
66	Temperature Reconstructions Using Speleothems. <i>Elements</i> , 2021, 17, 101-106.	0.5	6
67	Opposite dust grain-size patterns in the Pacific and Atlantic sectors of the Southern Ocean during the last 260,000 years. <i>Quaternary Science Reviews</i> , 2021, 263, 106978.	3.0	6
68	Fingerprint of tropical climate variability and sea level in sediments of the Cariaco Basin during the last glacial period. <i>Sedimentology</i> , 2019, 66, 1967-1988.	3.1	5
69	Correlation between the carbon isotopic composition of planktonic foraminifera-bound organic matter and surface water pCO ₂ across the equatorial Pacific. <i>Geochimica Et Cosmochimica Acta</i> , 2021, 306, 281-303.	3.9	5
70	Distinct nitrogen isotopic compositions of healthy and cancerous tissue in mice brain and head&neck micro-biopsies. <i>BMC Cancer</i> , 2021, 21, 805.	2.6	3
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73	Comment on “The transition on North America from the warm humid Pliocene to the glaciated Quaternary traced by eolian dust deposition at a benchmark North Atlantic Ocean drill site, by David Lang et al. Quaternary Science Reviews 93: 125–141”, Quaternary Science Reviews, 2014, 103, 175-179.	3.0	0