

Antoni Rosell-MelÀ©

List of Publications by Year in descending order

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109
papers

7,724
citations

47006

47
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54911

84
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112
all docs

112
docs citations

112
times ranked

6384
citing authors

#	ARTICLE	IF	CITATIONS
1	Calibration of the alkenone paleotemperature index U37K ^{cat} based on core-tops from the eastern South Atlantic and the global ocean (60°N-60°S). <i>Geochimica Et Cosmochimica Acta</i> , 1998, 62, 1757-1772.	3.9	900
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	North Pacific seasonality and the glaciation of North America 2.7 million years ago. <i>Nature</i> , 2005, 433, 821-825.	27.8	336
4	Upwelling Intensification As Part of the Pliocene-Pleistocene Climate Transition. <i>Science</i> , 2000, 290, 2288-2291.	12.6	306
5	Southern Ocean dust-climate coupling over the past four million years. <i>Nature</i> , 2011, 476, 312-315.	27.8	298
6	Multiproxy approach for the reconstruction of the glacial ocean surface (MARGO). <i>Quaternary Science Reviews</i> , 2005, 24, 813-819.	3.0	233
7	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
8	Climate Sensitivity Estimated from Temperature Reconstructions of the Last Glacial Maximum. <i>Science</i> , 2011, 334, 1385-1388.	12.6	212
9	Subpolar Link to the Emergence of the Modern Equatorial Pacific Cold Tongue. <i>Science</i> , 2010, 328, 1550-1553.	12.6	179
10	Last Glacial Maximum temperatures over the North Atlantic, Europe and western Siberia: a comparison between PMIP models, MARGO sea-surface temperatures and pollen-based reconstructions. <i>Quaternary Science Reviews</i> , 2006, 25, 2082-2102.	3.0	170
11	Interhemispheric appraisal of the value of alkenone indices as temperature and salinity proxies in high-latitude locations. <i>Paleoceanography</i> , 1998, 13, 694-703.	3.0	166
12	Atlantic core-top calibration of the U37K index as a sea-surface palaeotemperature indicator. <i>Geochimica Et Cosmochimica Acta</i> , 1995, 59, 3099-3107.	3.9	156
13	Pleistocene sea-surface temperature evolution: Early cooling, delayed glacial intensification, and implications for the mid-Pleistocene climate transition. <i>Earth-Science Reviews</i> , 2013, 123, 173-193.	9.1	149
14	Molecular record of secular sea surface temperature changes on 100-year timescales for glacial terminations I, II and IV. <i>Nature</i> , 1992, 356, 423-426.	27.8	148
15	Variability in the Benguela Current upwelling system over the past 70,000 years. <i>Progress in Oceanography</i> , 1995, 35, 207-251.	3.2	142
16	Late Glacial-Holocene climate variability at the south-eastern margin of the Aegean Sea. <i>Marine Geology</i> , 2009, 266, 182-197.	2.1	129
17	A comparison of PMIP2 model simulations and the MARGO proxy reconstruction for tropical sea surface temperatures at last glacial maximum. <i>Climate Dynamics</i> , 2009, 32, 799-815.	3.8	126
18	Risk excess of soft-tissue sarcoma and thyroid cancer in a community exposed to airborne organochlorinated compound mixtures with a high hexachlorobenzene content. <i>International Journal of Cancer</i> , 1994, 56, 200-203.	5.1	116

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19	Chlorin accumulation rate as a proxy for Quaternary marine primary productivity. <i>Nature</i> , 1996, 383, 63-65.	27.8	116
20	Comparing proxies for the reconstruction of LGM sea-surface conditions in the northern North Atlantic. <i>Quaternary Science Reviews</i> , 2006, 25, 2820-2834.	3.0	108
21	The emergence of modern sea ice cover in the Arctic Ocean. <i>Nature Communications</i> , 2014, 5, 5608.	12.8	99
22	Temperature and Salinity Effects on Alkenone Ratios Measured in Surface Sediments from the Indian Ocean. <i>Quaternary Research</i> , 1997, 47, 344-355.	1.7	92
23	Links between the onset of modern Walker circulation and the mid-Pleistocene climate transition. <i>Geology</i> , 2005, 33, 389.	4.4	90
24	Variability of unusual distributions of alkenones in the surface waters of the Nordic seas. <i>Paleoceanography</i> , 2005, 20, n/a-n/a.	3.0	76
25	High-resolution alkenone sea surface temperature variability on the North Icelandic Shelf: implications for Nordic Seas palaeoclimatic development during the Holocene. <i>Holocene</i> , 2007, 17, 9-24.	1.7	76
26	Seasonality of TEX_{86} and BIT analysis of sediments, extracts, and standard mixtures. <i>Geochemistry, Geophysics, Geosystems</i> , 2013, 14, 5263-5285.	3.0	76
27	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
28	Distributions of long-chain alkenones and alkyl alkenoates in marine surface sediments from the North East Atlantic. <i>Organic Geochemistry</i> , 1994, 22, 501-509.	1.8	72
29	Comparison of instrumental and GDGT-based estimates of sea surface and air temperatures from the Skagerrak. <i>Organic Geochemistry</i> , 2009, 40, 287-291.	1.8	72
30	Appraisal of TEX_{86} and TEX_{86} thermometries in subpolar and polar regions. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 131, 213-226.	1.8	72
31	Core-top calibration of the alkenone index vs sea surface temperature in the Indian Ocean. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 1997, 44, 1445-1460.	1.4	67
32	Application of microwave-assisted extraction to the analysis of biomarker climate proxies in marine sediments. <i>Organic Geochemistry</i> , 2003, 34, 1517-1523.	1.8	62
33	Expansion of subarctic water masses in the North Atlantic and Pacific oceans and implications for mid-Pleistocene ice sheet growth. <i>Paleoceanography</i> , 2008, 23, .	3.0	62
34	Management opportunities for soil carbon sequestration following agricultural land abandonment. <i>Environmental Science and Policy</i> , 2020, 108, 104-111.	4.9	61
35	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
36	Biomarker evidence for Heinrich events. <i>Geochimica Et Cosmochimica Acta</i> , 1997, 61, 1671-1678.	3.9	57

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37	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
38	Determination of the UK37 index in geological samples. <i>Analytical Chemistry</i> , 1995, 67, 1283-1289.	6.5	56
39	Distributions of UK37 and UK37 ² in the surface waters and sediments of the Nordic Seas: Implications for paleoceanography. <i>Geochemistry, Geophysics, Geosystems</i> , 2004, 5, n/a-n/a.	2.5	56
40	Water contamination from oil extraction activities in Northern Peruvian Amazonian rivers. <i>Environmental Pollution</i> , 2017, 225, 370-380.	7.5	55
41	Global distribution patterns of hydroxy glycerol dialkyl glycerol tetraethers. <i>Organic Geochemistry</i> , 2013, 57, 107-118.	1.8	54
42	Influence of water availability in the distributions of branched glycerol dialkyl glycerol tetraether in soils of the Iberian Peninsula. <i>Biogeosciences</i> , 2014, 11, 2571-2581.	3.3	53
43	An interlaboratory study of TEX ₈₆ and BIT analysis using high-performance liquid chromatography-mass spectrometry. <i>Geochemistry, Geophysics, Geosystems</i> , 2009, 10, .	2.5	52
44	Sea surface temperature anomalies in the oceans at the LGM estimated from the alkenone-U37K ² index: comparison with GCMs. <i>Geophysical Research Letters</i> , 2004, 31, .	4.0	50
45	Oil pollution in soils and sediments from the Northern Peruvian Amazon. <i>Science of the Total Environment</i> , 2018, 610-611, 1010-1019.	8.0	50
46	Appraisal of a molecular approach to infer variations in surface ocean freshwater inputs into the North Atlantic during the last glacial. <i>Global and Planetary Change</i> , 2002, 34, 143-152.	3.5	48
47	Alkenone and coccolith records of the mid-Pleistocene in the south-east Atlantic: Implications for the U37K ² index and South African climate. <i>Quaternary Science Reviews</i> , 2005, 24, 1559-1572.	3.0	48
48	Climatic bisection of the last interglacial warm period in the Polar North Atlantic. <i>Quaternary Science Reviews</i> , 2011, 30, 1813-1818.	3.0	46
49	Bacterial dominance in subseafloor sediments characterized by methane hydrates. <i>FEMS Microbiology Ecology</i> , 2012, 81, 88-98.	2.7	46
50	Hydroxylated isoprenoidal GDGTs in the Nordic Seas. <i>Marine Chemistry</i> , 2013, 152, 1-10.	2.3	45
51	Evidence for a Warm Last Glacial Maximum in the Nordic Seas or an example of shortcomings in UK37 ² and UK37 to estimate low sea surface temperature?. <i>Paleoceanography</i> , 1999, 14, 770-776.	3.0	44
52	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
53	Liquid chromatography/tandem mass spectrometry of free base alkyl porphyrins for the characterization of the macrocyclic substituents in components of complex mixtures. , 1999, 13, 568-573.		39
54	Time-transgressive North Atlantic productivity changes upon Northern Hemisphere glaciation. <i>Paleoceanography</i> , 2013, 28, 740-751.	3.0	39

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55	Alkenone fluxes and anomalous U37K values during 1989–1990 in the Northeast Atlantic (48°N 21°W). <i>Marine Chemistry</i> , 2000, 71, 251-264.	2.3	37
56	Links between media communication and local perceptions of climate change in an indigenous society. <i>Climatic Change</i> , 2015, 131, 307-320.	3.6	37
57	Soil organic carbon accumulation rates on Mediterranean abandoned agricultural lands. <i>Science of the Total Environment</i> , 2021, 759, 143535.	8.0	34
58	Comparison of two U37K-sea surface temperature records for the last climatic cycle at ODP Site 658 from the sub-tropical Northeast Atlantic. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 1993, 103, 57-65.	2.3	33
59	Variability of the Arctic front during the last climatic cycle: application of a novel molecular proxy. <i>Terra Nova</i> , 1998, 10, 86-89.	2.1	32
60	The composition of volatile and particulate hydrocarbons in urban air. <i>Fresenius' Journal of Analytical Chemistry</i> , 1991, 339, 689-698.	1.5	31
61	Paleoclimatic significance of the stratigraphic occurrence of photosynthetic biomarker pigments in the Nordic seas. <i>Geology</i> , 1997, 25, 49.	4.4	31
62	Project takes a new look at past sea surface temperatures. <i>Eos</i> , 1998, 79, 393-393.	0.1	31
63	Multi-proxy constraints on sapropel formation during the late Pliocene of central Mediterranean (southwest Sicily). <i>Earth and Planetary Science Letters</i> , 2015, 420, 30-44.	4.4	31
64	Belowground biota responses to maize biochar addition to the soil of a Mediterranean vineyard. <i>Science of the Total Environment</i> , 2019, 660, 1522-1532.	8.0	31
65	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
66	Rapid screening of glycerol dialkyl glycerol tetraethers in continental Eurasia samples using HPLC/APCI-ion trap mass spectrometry. <i>Organic Geochemistry</i> , 2007, 38, 161-164.	1.8	29
67	Biomarker seasonality study in Lake Van, Turkey. <i>Organic Geochemistry</i> , 2011, 42, 1289-1298.	1.8	27
68	Analytical Considerations for the Use of the Paleothermometer Tetraether Index ₈₆ and the Branched vs Isoprenoid Tetraether Index Regarding the Choice of Cleanup and Instrumental Conditions. <i>Analytical Chemistry</i> , 2009, 81, 2701-2707.	6.5	26
69	High-performance liquid chromatography-mass spectrometry of porphyrins by using an atmospheric pressure interface. <i>Journal of the American Society for Mass Spectrometry</i> , 1996, 7, 965-971.	2.8	25
70	Sediment reworking on high-latitude continental margins and its implications for palaeoceanographic studies: insights from the Norwegian-Greenland Sea. <i>Geological Society Special Publication</i> , 2002, 203, 325-348.	1.3	25
71	Molecular dynamics simulation study of the effect of glycerol dialkyl glycerol tetraether hydroxylation on membrane thermostability. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2017, 1859, 966-974.	2.6	25
72	Eolian transport of glycerol dialkyl glycerol tetraethers (GDGTs) off northwest Africa. <i>Organic Geochemistry</i> , 2013, 64, 112-118.	1.8	24

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73	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
74	Crenarchaea and phytoplankton coupling in sedimentary archives: Common trigger or metabolic dependence?. <i>Limnology and Oceanography</i> , 2011, 56, 1907-1916.	3.1	20
75	Late Pliocene upwelling in the Southern Benguela region. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2015, 429, 62-71.	2.3	19
76	Vapor-particle partitioning of hydrocarbons in Western Mediterranean urban and marine atmospheres. <i>Mikrochimica Acta</i> , 1991, 104, 13-27.	5.0	18
77	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
78	Oceanographic and climatic evolution of the southeastern subtropical Atlantic over the last 3.5 Ma. <i>Earth and Planetary Science Letters</i> , 2018, 492, 12-21.	4.4	18
79	First evidences of Amazonian wildlife feeding on petroleum-contaminated soils: A new exposure route to petrogenic compounds?. <i>Environmental Research</i> , 2018, 160, 514-517.	7.5	18
80	Branched GDGT variability in sediments and soils from catchments with marked temperature seasonality. <i>Organic Geochemistry</i> , 2018, 122, 98-114.	1.8	18
81	Anthropogenic lead in Amazonian wildlife. <i>Nature Sustainability</i> , 2019, 2, 702-709.	23.7	18
82	Coupling of air and sea surface temperatures in the eastern Fram Strait during the last 2000 years. <i>Holocene</i> , 2013, 23, 692-698.	1.7	16
83	Organic biomarker records spanning the last 34,800 years from the southeastern Brazilian upper slope: links between sea surface temperature, displacement of the Brazil Current, and marine productivity. <i>Geo-Marine Letters</i> , 2016, 36, 361-369.	1.1	16
84	Polycyclic aromatic hydrocarbons, polychlorinated biphenyls and organochlorine pesticides in European hake (<i>Merluccius merluccius</i>) muscle from the Western Mediterranean Sea. <i>Marine Pollution Bulletin</i> , 2015, 95, 513-519.	5.0	15
85	Abundance and Co-Distribution of Widespread Marine Archaeal Lineages in Surface Sediments of Freshwater Water Bodies across the Iberian Peninsula. <i>Microbial Ecology</i> , 2017, 74, 776-787.	2.8	15
86	Appraisal of sedimentary alkenones for the quantitative reconstruction of phytoplankton biomass. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, e2014787118.	7.1	15
87	Phase distribution of hydrocarbons in the water column after a pelagic deep ocean oil spill. <i>Marine Pollution Bulletin</i> , 2010, 60, 1667-1673.	5.0	14
88	Postglacial paleoceanography of the western Barents Sea: Implications for alkenone-based sea surface temperatures and primary productivity. <i>Quaternary Science Reviews</i> , 2019, 224, 105973.	3.0	14
89	Seasonal effects of water temperature and dissolved oxygen on the isoGDGT proxy (TEX86) in a Mediterranean oligotrophic lake. <i>Chemical Geology</i> , 2020, 551, 119759.	3.3	14
90	Modelling nitrogen and phosphorus loads in a Mediterranean river catchment (La Tordera, NE Spain). <i>Hydrology and Earth System Sciences</i> , 2012, 16, 2417-2435.	4.9	13

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91	Modern Analogue Approach Applied to High-Resolution Varved Sediments—A Synthesis for Lake Montcortès (Central Pyrenees). <i>Quaternary</i> , 2020, 3, 1.	2.0	12
92	Rapid Characterization of Metallo Porphyrin Classes in Natural Extracts by Gel Permeation Chromatography/Atmospheric Pressure Chemical Ionization/Mass Spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 1996, 10, 209-213.	1.5	11
93	Preliminary study of fluxes of major lipid biomarker classes in the water column and sediments of Lake Baikal, Russia. <i>Global and Planetary Change</i> , 2005, 46, 45-56.	3.5	11
94	Alkenones, alkenoates, and organic matter in coastal environments of NW Scotland: Assessment of potential application for sea level reconstruction. <i>Geochemistry, Geophysics, Geosystems</i> , 2009, 10, .	2.5	11
95	Alkenones and coccoliths in ice-rafted debris during the Last Glacial Maximum in the North Atlantic: implications for the use of $U^{K/37}$ as a sea surface temperature proxy. <i>Journal of Quaternary Science</i> , 2011, 26, 657-664.	2.1	11
96	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
97	Chapter Eleven Biomarkers as Paleoceanographic Proxies. <i>Developments in Marine Geology</i> , 2007, , 441-490.	0.4	9
98	Participatory scenario development for integrated assessment of nutrient flows in a Catalan river catchment. <i>Hydrology and Earth System Sciences</i> , 2007, 11, 1843-1855.	4.9	9
99	Improving the Fertigation of Soilless Urban Vertical Agriculture Through the Combination of Struvite and Rhizobia Inoculation in <i>Phaseolus vulgaris</i> . <i>Frontiers in Plant Science</i> , 2021, 12, 649304.	3.6	8
100	Response to Comment on “Climate Sensitivity Estimated from Temperature Reconstructions of the Last Glacial Maximum”. <i>Science</i> , 2012, 337, 1294-1294.	12.6	5
101	Evidence of bee products processing: A functional definition of a specialized type of macro-lithic tool. <i>Journal of Archaeological Science: Reports</i> , 2017, 14, 638-650.	0.5	5
102	Modelling of the Effect of Chromatographic Resolution on the Determination of the UK37' Index. <i>Journal of Chromatographic Science</i> , 1999, 37, 245-250.	1.4	3
103	Archaeobacterial lipids in drill core samples from the Bosumtwi impact structure, Ghana. <i>Meteoritics and Planetary Science</i> , 2008, 43, 1777-1782.	1.6	3
104	Fast preparation of the seawater accommodated fraction of heavy fuel oil by sonication. <i>Chemosphere</i> , 2008, 73, 1811-1816.	8.2	2
105	Dataset on the evidence of bee products processing: A functional definition of a specialized type of macro-lithic tool. <i>Data in Brief</i> , 2017, 14, 738-758.	1.0	2
106	Biomarker Fingerprint of Debris Flow Deposits as a Paleoproxy for IRD Sources in the Last Glacial North Atlantic. <i>Paleoceanography and Paleoclimatology</i> , 2020, 35, e2020PA003850.	2.9	1
107	Examination of the Use of Biomarker Proxies for the Reconstruction of Paleoceanographic Conditions in the Northern North Atlantic. , 2001, , 353-363.		1
108	Languages: Catalan speakers learn a wider range. <i>Nature</i> , 2008, 455, 26-26.	27.8	0

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109	Reply to: Improper estimation of lead contamination. <i>Nature Sustainability</i> , 2021, 4, 19-20.	23.7	0