Claire Waelbroeck

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/5868260/publications.pdf

Version: 2024-02-01

89 papers	7,850 citations	57631 44 h-index	51492 86 g-index
94 all docs	94 docs citations	94 times ranked	6604 citing authors

#	Article	IF	Citations
1	Ocean Productivity in the Gulf of Cadiz Over the Last 50 kyr. Paleoceanography and Paleoclimatology, 2022, 37, .	1.3	3
2	A Simplified Palaeoceanography Archiving System (PARIS) and GUI for Storage and Visualisation of Marine Sediment Core Proxy Data vs Age and Depth. Open Quaternary, 2022, 8, .	0.5	1
3	Dansgaard-Oeschger and Heinrich event temperature anomalies in the North Atlantic set by sea ice, frontal position and thermocline structure. Quaternary Science Reviews, 2022, 289, 107599.	1.4	12
4	Atlantic Ocean Ventilation Changes Across the Last Deglaciation and Their Carbon Cycle Implications. Paleoceanography and Paleoclimatology, 2021, 36, e2020PA004074.	1.3	19
5	The North Atlantic Glacial Eastern Boundary Current as a Key Driver for Iceâ€Sheetâ€”AMOC Interactions and Climate Instability. Paleoceanography and Paleoclimatology, 2021, 36, e2020PA004068.	1.3	25
6	Imprint of seasonality changes on fluvio-glacial dynamics across Heinrich Stadial 1 (NE Atlantic) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 54	1.6	3
7	Southern Ocean link between changes in atmospheric CO2 levels and northern-hemisphere climate anomalies during the last two glacial periods. Quaternary Science Reviews, 2020, 230, 106067.	1.4	20
8	Radiogenic isotopic and clay mineralogical signatures of terrigenous particles as water-mass tracers: New insights into South Atlantic deep circulation during the last termination. Quaternary Science Reviews, 2020, 228, 106089.	1.4	4
9	Modelling the impact of biogenic particle flux intensity and composition on sedimentary Pa/Th. Quaternary Science Reviews, 2020, 240, 106394.	1.4	5
10	A proxy modelling approach to assess the potential of extracting ENSO signal from tropical Pacific planktonic foraminifera. Climate of the Past, 2020, 16, 885-910.	1.3	5
11	Carbon isotopes and Paâ•Th response to forced circulation changes: a model perspective. Climate of the Past, 2020, 16, 867-883.	1.3	5
12	Radiocarbon Dating of Small-sized Foraminifer Samples: Insights into Marine sediment Mixing. Radiocarbon, 2020, 62, 313-333.	0.8	12
13	Consistently dated Atlantic sediment cores over the last 40 thousand years. Scientific Data, 2019, 6, 165.	2.4	63
14	Improving North Atlantic Marine Core Chronologies Using ²³⁰Th Normalization. Paleoceanography and Paleoclimatology, 2019, 34, 1057-1073.	1.3	9
15	Downcore Variations of Sedimentary Detrital (²³⁸U/²³²Th) Ratio: Implications on the Use of ²³⁰Th_{xs} and ²³¹Pa_{xs} to Reconstruct Sediment Flux and Ocean Circulation. Geochemistry, Geophysics, Geosystems, 2018, 19, 2560-2573.	1.0	16
16	FAME (v1.0): a simple module to simulate the effect of planktonic foraminifer species-specific habitat on their oxygen isotopic content. Geoscientific Model Development, 2018, 11, 3587-3603.	1.3	15
17	Relative timing of precipitation and ocean circulation changes in the western equatorial Atlantic over the last 45â€‰kyr. Climate of the Past, 2018, 14, 1315-1330.	1.3	20
18	Updated calibration of the clumped isotope thermometer in planktonic and benthic foraminifera. Geochimica Et Cosmochimica Acta, 2018, 239, 1-16.	1.6	66

#	Article	IF	Citations
19	Predicted bounds on peak global mean sea level during marine isotope stages 5a and 5c. Quaternary Science Reviews, 2017, 163, 193-208.	1.4	78
20	Calibration of the carbon isotope composition (Î´¹³C) of benthic foraminifera. Paleoceanography, 2017, 32, 512-530.	3.0	63
21	Age and duration of Laschamp and Iceland Basin geomagnetic excursions in the South Atlantic Ocean. Quaternary Science Reviews, 2017, 167, 1-13.	1.4	21
22	The large-scale evolution of neodymium isotopic composition in the global modern and Holocene ocean revealed from seawater and archive data. Chemical Geology, 2017, 457, 131-148.	1.4	78
23	Changes in the geometry and strength of the Atlantic meridional overturning circulation during the last glacial (20â€“50â€¯ka). Climate of the Past, 2016, 12, 2061-2075.	1.3	22
24	Water and carbon stable isotope records from natural archives: a new database and interactive online platform for data browsing, visualizing and downloading. Climate of the Past, 2016, 12, 1693-1719.	1.3	6
25	Mg/Ca thermometry in planktic foraminifera: Improving paleotemperature estimations for G. bulloides and N. pachyderma left. Geochemistry, Geophysics, Geosystems, 2016, 17, 1249-1264.	1.0	28
26	Carbon isotope offsets between benthic foraminifer species of the genus Cibicides (Cibicidoides) in the glacial subâ€Antarctic Atlantic. Paleoceanography, 2016, 31, 1583-1602.	3.0	39
27	Biological and physical controls in the Southern Ocean on past millennial-scale atmospheric CO2 changes. Nature Communications, 2016, 7, 11539.	5.8	102
28	Radiocarbon evidence for enhanced respired carbon storage in the Atlantic at the Last Glacial Maximum. Nature Communications, 2016, 7, 11998.	5.8	34
29	On the Movements of the North Atlantic Subpolar Front in the Preinstrumental Past*. Journal of Climate, 2016, 29, 1545-1571.	1.2	7
30	Evolution of South Atlantic density and chemical stratification across the last deglaciation. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 514-519.	3.3	53
31	Atlantic Ocean circulation changes preceded millennial tropical South America rainfall events during the last glacial. Geophysical Research Letters, 2015, 42, 411-418.	1.5	38
32	Sequence of events from the onset to the demise of the Last Interglacial: Evaluating strengths and limitations of chronologies usedÂin climatic archives. Quaternary Science Reviews, 2015, 129, 1-36.	1.4	126
33	Contribution of seasonal sub-Antarctic surface water variability to millennial-scale changes in atmospheric CO2 over the last deglaciation and Marine Isotope Stage 3. Earth and Planetary Science Letters, 2015, 411, 87-99.	1.8	23
34	Abrupt changes in the southern extent of NorthÂAtlantic Deep Water during Dansgaardâ€“Oeschger events. Nature Geoscience, 2015, 8, 950-954.	5.4	63
35	Oxygen stable isotopes during the Last Glacial Maximum climate: perspectives from dataâ€“model (<i>i</i>LOVECLIM) comparison. Climate of the Past, 2014, 10, 1939-1955.	1.3	31
36	Implication of methodological uncertainties for mid-Holocene sea surface temperature reconstructions. Climate of the Past, 2014, 10, 2237-2252.	1.3	23

#	Article	IF	Citations
37	LGM hosing approach to Heinrich Event 1: results and perspectives from dataâ€“model integration using water isotopes. Quaternary Science Reviews, 2014, 106, 247-261.	1.4	24
38	Radiocarbon evidence for alternating northern and southern sources of ventilation of the deep Atlantic carbon pool during the last deglaciation. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 5480-5484.	3.3	87
39	Temporal and spatial structure of multi-millennial temperature changes at high latitudes during the Last Interglacial. Quaternary Science Reviews, 2014, 103, 116-133.	1.4	146
40	Constraints on surface seawater oxygen isotope change between the Last Glacial Maximum and the Late Holocene. Quaternary Science Reviews, 2014, 105, 102-111.	1.4	12
41	Hydrographic variations in deep ocean temperature over the mid-Pleistocene transition. Quaternary Science Reviews, 2014, 88, 147-158.	1.4	31
42	The â€œMIS 11 paradoxâ€•and ocean circulation: Role of millennial scale events. Earth and Planetary Science Letters, 2013, 371-372, 258-268.	1.8	29
43	Refining benthic foraminiferal Mg/Caâ€‰temperature calibrations using coreâ€‰tops from the western tropical Atlantic: Implication for paleotemperature estimation. Geochemistry, Geophysics, Geosystems, 2013, 14, 929-946.	1.0	19
44	Live (Stained) Benthic Foraminifera Off Walvis Bay, Namibia: A Deep-Sea Ecosystem under the Influence of Bottom Nepheloid Layers. Journal of Foraminiferal Research, 2013, 43, 55-71.	0.1	13
45	North Atlantic versus Southern Ocean contributions to a deglacial surge in deep ocean ventilation. Geology, 2013, 41, 667-670.	2.0	64
46	Persistent influence of ice sheet melting on high northern latitude climate during the early Last Interglacial. Climate of the Past, 2012, 8, 483-507.	1.3	91
47	Impact of oceanic processes on the carbon cycle during the last termination. Climate of the Past, 2012, 8, 149-170.	1.3	26
48	The timing of deglacial circulation changes in the Atlantic. Paleoceanography, 2011, 26, .	3.0	83
49	Influence of Bering Strait flow and North Atlantic circulation on glacial sea-level changes. Nature Geoscience, 2010, 3, 118-121.	5.4	140
50	Ventilation of the Deep Southern Ocean and Deglacial CO ₂ Rise. Science, 2010, 328, 1147-1151.	6.0	420
51	Abrupt change of Antarctic moisture origin at the end of Termination II. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 12091-12094.	3.3	71
52	Late slowdown of the Atlantic Meridional Overturning Circulation during the Last Glacial Inception: New constraints from sedimentary (231Pa/230Th). Earth and Planetary Science Letters, 2010, 289, 520-529.	1.8	31
53	Response of South Atlantic deep waters to deglacial warming during Terminations V and I. Earth and Planetary Science Letters, 2010, 298, 323-333.	1.8	24
54	Benthic foraminiferal abundance and stable isotope changes in the Indian Ocean sector of the Southern Ocean during the last 20 kyr: Paleoceanographic implications. Palaeogeography, Palaeoclimatology, Palaeoecology, 2010, 297, 537-548.	1.0	14

#	Article	IF	Citations
55	Changes in deep Pacific temperature during the mid-Pleistocene transition and Quaternary. Quaternary Science Reviews, 2010, 29, 170-181.	1.4	47
56	Consistent dating for Antarctic and Greenland ice cores. Quaternary Science Reviews, 2010, 29, 8-20.	1.4	259
57	Climate of the last million years: new insights from EPICA and other records. Quaternary Science Reviews, 2010, 29, 1-7.	1.4	24
58	A comparison of PMIP2 model simulations and the MARGO proxy reconstruction for tropical sea surface temperatures at last glacial maximum. Climate Dynamics, 2009, 32, 799-815.	1.7	126
59	Evidence for northward expansion of Antarctic Bottom Water mass in the Southern Ocean during the last glacial inception. Paleoceanography, 2009, 24, .	3.0	79
60	Transferring radiometric dating of the last interglacial sea level high stand to marine and ice core records. Earth and Planetary Science Letters, 2008, 265, 183-194.	1.8	75
61	Marine isotope stage 3 sea level fluctuations: Data synthesis and new outlook. Reviews of Geophysics, 2008, 46, .	9.0	229
62	Search for Supernova-Produced<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mmultiscripts><mml:mi>Fe</mml:mi><mml:mprescripts /><mml:none /><mml:mn>60</mml:mn></mml:mmultiscripts></mml:math>in a Marine Sediment. Physical Review Letters, 2008, 101, 121101.	2.9	78
63	The EDC3 chronology for the EPICA Dome C ice core. Climate of the Past, 2007, 3, 485-497.	1.3	396
64	Low-latitude hydrological cycle and rapid climate changes during the last deglaciation. Geochemistry, Geophysics, Geosystems, 2007, 8, n/a-n/a.	1.0	79
65	A search for supernova produced 244Pu in a marine sediment. Nuclear Instruments & Methods in Physics Research B, 2007, 259, 673-676.	0.6	18
66	On the limits of Antarctic and marine climate records synchronization: Lag estimates during marine isotopic stages 5d and 5c. Paleoceanography, 2006, 21, n/a-n/a.	3.0	9
67	Distant origin of circulation changes in the Indian Ocean during the last deglaciation. Earth and Planetary Science Letters, 2006, 243, 244-251.	1.8	58
68	Changes in deep water hydrology during the Last Deglaciation. Comptes Rendus - Geoscience, 2005, 337, 919-927.	0.4	40
69	A global compilation of late Holocene planktonic foraminiferal Î´18O: relationship between surface water temperature and Î´18O. Quaternary Science Reviews, 2005, 24, 853-868.	1.4	74
70	Estimating glacial western Pacific sea-surface temperature: methodological overview and data compilation of surface sediment planktic foraminifer faunas. Quaternary Science Reviews, 2005, 24, 1049-1062.	1.4	52
71	Reconstruction of sea-surface temperatures from assemblages of planktonic foraminifera: multi-technique approach based on geographically constrained calibration data sets and its application to glacial Atlantic and Pacific Oceans. Quaternary Science Reviews, 2005, 24, 951-998.	1.4	367
72	Multiproxy approach for the reconstruction of the glacial ocean surface (MARGO). Quaternary Science Reviews, 2005, 24, 813-819.	1.4	233

#	Article	IF	Citations
73	Rapid reconstruction of paleoenvironmental features using a new multiplatform program. Micropaleontology, 2004, 50, 391.	0.3	3
74	Sea-level and deep water temperature changes derived from benthic foraminifera isotopic records. Quaternary Science Reviews, 2002, 21, 295-305.	1.4	1,823
75	Atmospheric oxygen 18 and sea-level changes. Quaternary Science Reviews, 2002, 21, 307-314.	1.4	57
76	Constraints on the ocean oxygen isotopic enrichment between the Last Glacial Maximum and the Holocene: Paleoceanographic implications. Quaternary Science Reviews, 2002, 21, 315-330.	1.4	162
77	Deep sea records of past climatic variability. European Physical Journal Special Topics, 2002, 12, 73-84.	0.2	2
78	A 450-kyr record of hydrological conditions on the western Agulhas Bank Slope, south of Africa. Marine Geology, 2002, 180, 183-201.	0.9	74
79	Comment on â€œA High-Resolution Sea-Surface Temperature Record from the tropical South China Sea (16,500â€“3000 yr B.P.)â€•by Steinke et al.. Quaternary Research, 2002, 57, 432-433.	1.0	2
80	Dating the Vostok ice core by an inverse method. Journal of Geophysical Research, 2001, 106, 31837-31851.	3.3	79
81	Comparison of statistical and artificial neural network techniques for estimating past sea surface temperatures from planktonic foraminifer census data. Paleoceanography, 2001, 16, 520-530.	3.0	87
82	The timing of the last deglaciation in North Atlantic climate records. Nature, 2001, 412, 724-727.	13.7	288
83	Temporal variability of the surface and deep waters of the North West Atlantic Ocean at orbital and millenial scales. Geophysical Monograph Series, 1999, , 77-98.	0.1	54
84	Improving past sea surface temperature estimates based on planktonic fossil faunas. Paleoceanography, 1998, 13, 272-283.	3.0	125
85	The impact of permafrost thawing on the carbon dynamics of tundra. Geophysical Research Letters, 1997, 24, 229-232.	1.5	75
86	Climatic interpretation of the recently extended Vostok ice records. Climate Dynamics, 1996, 12, 513-521.	1.7	149
87	Sensitivity analysis of a model of CO2exchange in tundra ecosystems by the adjoint method. Journal of Geophysical Research, 1995, 100, 2801.	3.3	15
88	A comparison of the Vostok ice deuterium record and series from Southern Ocean core MD 88-770 over the last two glacial-interglacial cycles. Climate Dynamics, 1995, 12, 113-123.	1.7	74
89	Climate-soil processes in the presence of permafrost: a systems modelling approach. Ecological Modelling, 1993, 69, 185-225.	1.2	64