Thomas Felis

List of Publications by Year
in descending order

64 papers	2,897 citations	186265 28 h-index	182427 51 g-index
73 all docs	73 docs citations	73 times ranked	3113 citing authors

#	Article	IF	Citations
1	Increased seasonality in Middle East temperatures during the last interglacial period. Nature, 2004, 429, 164-168.	27.8	251
2	Interlaboratory study for coral Sr/Ca and other element/Ca ratio measurements. Geochemistry, Geophysics, Geosystems, 2013, 14, 3730-3750.	2.5	183
3	A coral oxygen isotope record from the northern Red Sea documenting NAO, ENSO, and North Pacific teleconnections on Middle East climate variability since the year 1750. Paleoceanography, 2000, 15, 679-694.	3.0	168
4	Palaeoclimate constraints on the impact of 2 Â°C anthropogenic warming and beyond. Nature Geoscience, 2018, 11, 474-485.	12.9	166
5	Carbonate clumped isotope variability in shallow water corals: Temperature dependence and growth-related vital effects. Geochimica Et Cosmochimica Acta, 2012, 99, 224-242.	3.9	120
6	Mean oxygen-isotope signatures in Porites spp. corals: inter-colony variability and correction for extension-rate effects. Coral Reefs, 2003, 22, 328-336.	2.2	118
7	Subtropical coral reveals abrupt early-twentieth-century freshening in the western North Pacific Ocean. Geology, 2009, 37, 527-530.	4.4	107
8	Chapter 1 Mediterranean climate variability over the last centuries: A review. Developments in Earth and Environmental Sciences, 2006, 4, 27-148.	0.1	105
9	U-series dating of diagenetically altered fossil reef corals. Earth and Planetary Science Letters, 2004, 218, 163-178.	4.4	93
10	Comparing proxy and model estimates of hydroclimate variability and change over the Common Era. Climate of the Past, 2017, 13, 1851-1900.	3.4	93
11	Climate records from corals. Wiley Interdisciplinary Reviews: Climate Change, 2010, 1, 318-331.	8.1	90
12	Î´18O, Sr/Ca and Mg/Ca records of Porites lutea corals from Leizhou Peninsula, northern South China Sea, and their applicability as paleoclimatic indicators. Palaeogeography, Palaeoclimatology, Palaeoecology, 2005, 218, 57-73.	2.3	89
13	A Review of 2000 Years of Paleoclimatic Evidence in the Mediterranean. , 2012, , 87-185.		86
14	Vertical water mass mixing and plankton blooms recorded in skeletal stable carbon isotopes of a Red Sea coral. Journal of Geophysical Research, 1998, 103, 30731-30739.	3.3	79
15	Intensification of the meridional temperature gradient in the Great Barrier Reef following the Last Glacial Maximum. Nature Communications, 2014, 5, 4102.	12.8	72
16	Lithium in the aragonite skeletons of massive Porites corals: A new tool to reconstruct tropical sea surface temperatures. Paleoceanography, 2013, 28, 143-152.	3.0	61
17	Pronounced interannual variability in tropical South Pacific temperatures during Heinrich Stadial 1. Nature Communications, 2012, 3, 965.	12.8	60
18	Evidence for tropical South Pacific climate change during the Younger Dryas and the BÃllingâ€“AllerÃ¸d from geochemical records of fossil Tahiti corals. Earth and Planetary Science Letters, 2009, 288, 96-107.	4.4	59

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19	230Th/U dating of Last Interglacial brain corals from Bonaire (southern Caribbean) using bulk and theca wall material. Geochimica Et Cosmochimica Acta, 2016, 178, 20-40.	3.9	59
20	Porites corals from Crete (Greece) open a window into Late Miocene (10Ma) seasonal and interannual climate variability. Earth and Planetary Science Letters, 2006, 245, 81-94.	4.4	55
21	Arctic Oscillation signature in a Red Sea coral. Geophysical Research Letters, 2001, 28, 2959-2962.	4.0	51
22	Pacific Decadal Oscillation documented in a coral record of North Pacific winter temperature since 1873. Geophysical Research Letters, 2010, 37, .	4.0	50
23	Mid- to late Holocene changes in tropical Atlantic temperature seasonality and interannual to multidecadal variability documented in southern Caribbean corals. Earth and Planetary Science Letters, 2012, 331-332, 187-200.	4.4	46
24	Shift in ENSO Teleconnections Recorded by a Northern Red Sea Coral. Journal of Climate, 2003, 16, 1414-1422.	3.2	40
25	Geochemistry and skeletal structure of Diploria strigosa, implications for coral-based climate reconstruction. Palaeogeography, Palaeoclimatology, Palaeoecology, 2010, 298, 378-387.	2.3	38
26	Tropical Atlantic temperature seasonality at the end of the last interglacial. Nature Communications, 2015, 6, 6159.	12.8	35
27	Effect of skeletal growth and lack of species effects in the skeletal oxygen isotope climate signal within the coral genus Porites. Marine Geology, 2004, 207, 193-208.	2.1	33
28	Mediterranean climate variability documented in oxygen isotope records from northern Red Sea coralsâ€"A review. Global and Planetary Change, 2010, 71, 232-241.	3.5	30
29	Laser ablation ICP-MS screening of corals for diagenetically affected areas applied to Tahiti corals from the last deglaciation. Geochimica Et Cosmochimica Acta, 2011, 75, 1490-1506.	3.9	30
30	PaCTS 1.0: A Crowdsourced Reporting Standard for Paleoclimate Data. Paleoceanography and Paleoclimatology, 2019, 34, 1570-1596.	2.9	30
31	Annually-resolved coral skeletal Î´138/134Ba records: A new proxy for oceanic Ba cycling. Geochimica Et Cosmochimica Acta, 2019, 247, 27-39.	3.9	30
32	Climate Records from Corals. , 2003, , 11-27.		27
33	Last interglacial temperature seasonality reconstructed from tropical Atlantic corals. Earth and Planetary Science Letters, 2016, 449, 418-429.	4.4	24
34	Constraining calcium isotope fractionation (Î´44/40Ca) in modern and fossil scleractinian coral skeleton. Chemical Geology, 2013, 340, 49-58.	3.3	20
35	Mild and Arid Climate in the Eastern Saharaâ€Arabian Desert During the Late Little Ice Age. Geophysical Research Letters, 2018, 45, 7112-7119.	4.0	20
36	Consistent CO2 release by pyrite oxidation on continental shelves prior to glacial terminations. Nature Geoscience, 2019, 12, 929-934.	12.9	19

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37	Controls of Caribbean surface hydrology during the mid- to late Holocene: insights from monthly resolved coral records. Climate of the Past, 2013, 9, 841-858.	3.4	18
38	Potential and limits of combining studies of coarse- and fine-grained sediments for the coastal event history of a Caribbean carbonate environment. Geological Society Special Publication, 2014, 388, 503-531.	1.3	13
39	Last Interglacial Hydroclimate Seasonality Reconstructed From Tropical Atlantic Corals. Paleoceanography and Paleoclimatology, 2018, 33, 198-213.	2.9	13
40	Long-term variability in the stable carbon isotopic composition of Porites corals at the northern Gulf of Aqaba, Red Sea. Palaeogeography, Palaeoclimatology, Palaeoecology, 2013, 381-382, 1-14.	2.3	12
41	Tides in the Last Interglacial: insights from notch geometry and palaeo tidal models in Bonaire, Netherland Antilles. Scientific Reports, 2017, 7, 16241.	3.3	12
42	Seasonal variations in the stable oxygen isotopic composition in Porites corals from the northern Gulf of Aqaba, Red Sea. Geochemical Journal, 2007, 41, 333-340.	1.0	11
43	IODP Expedition 310 Reconstructs Sea Level, Climatic and Environmental chagnes in the South Pacific during the Last Deglaciation. Scientific Drilling, 2007, , .	0.6	11
44	Winter and summer climate patterns in the European-Middle East during recent centuries as documented in a northern Red Sea coral record. Holocene, 2006, 16, 321-330.	1.7	10
45	Distinct modes of East Asian Winter Monsoon documented by a southern Red Sea coral record. Journal of Geophysical Research: Oceans, 2014, 119, 1517-1533.	2.6	10
46	Extending the Instrumental Record of Ocean-Atmosphere Variability into the Last Interglacial Using Tropical Corals. Oceanography, 2020, 33, .	1.0	10
47	Distinct modes of bidecadal and multidecadal variability in a climate reconstruction of the last centuries from a South Pacific coral. Climate Dynamics, 2005, 25, 329-336.	3.8	9
48	Improved constraints on open-system processes in fossil reef corals by combined Th/U, Pa/U and Ra/Th dating: A case study from Aqaba, Jordan. Geochimica Et Cosmochimica Acta, 2019, 245, 459-478.	3.9	8
49	A review of last interglacial sea-level proxies in the western Atlantic and southwestern Caribbean, from Brazil to Honduras. Earth System Science Data, 2021, 13, 4819-4845.	9.9	7
50	Changes to YucatÃ¡n Peninsula precipitation associated with salinity and temperature extremes of the Caribbean Sea during the Maya civilization collapse. Scientific Reports, 2017, 7, 15825.	3.3	6
51	Assessing the potential of Southern Caribbean corals for reconstructions of Holocene temperature variability. IOP Conference Series: Earth and Environmental Science, 2010, 9, 012021.	0.3	5
52	Chemical separation and MC-ICPMS analysis of U, Th, Pa and Ra isotope ratios of carbonates. Journal of Analytical Atomic Spectrometry, 2018, 33, 1372-1383.	3.0	5
53	Coral Record of Younger Dryas Chronozone Warmth on the Great Barrier Reef. Paleoceanography and Paleoclimatology, 2020, 35, e2020PA003962.	2.9	5
54	Monthly resolved coral barium isotopes record increased riverine inputs during the South Asian summer monsoon. Geochimica Et Cosmochimica Acta, 2022, 329, 152-167.	3.9	5

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55	Corals as Climate Archive. Zeitschrift FâˆšÂºr EuropâˆšÂ§isches Unternehmens- Und Verbraucherrecht, 2004, , 91-108.	0.2	4
56	Pacing of Red Sea Deep Water Renewal During the Last Centuries. Geophysical Research Letters, 2019, 46, 4413-4420.	4.0	4
57	Role of the Deglacial Buildup of the Great Barrier Reef for the Global Carbon Cycle. Geophysical Research Letters, 2022, 49, .	4.0	4
58	Tropical Atlantic Cooling and Freshening in the Middle of the Last Interglacial From Coral Proxy Records. Geophysical Research Letters, 2019, 46, 8289-8299.	4.0	3
59	Saving Our Marine Archives. Eos, 2017, , .	0.1	3
60	Mid to late 20th century freshening of the western tropical South Atlantic triggered by southward migration of the Intertropical Convergence Zone. Palaeogeography, Palaeoclimatology, Palaeoecology, 2022, 597, 111013.	2.3	3
61	Detection of Climate Modes as Recorded in a Seasonal-resolution Coral Record Covering the Last 250 Years. Zeitschrift FâˆšÂºr EuropâˆšÂ§isches Unternehmens- Und Verbraucherrecht, 2004, , 281-292.	0.2	1
62	Reconstructing Climate and Environment from Coral Archives. Eos, 2018, 99, .	0.1	1
63	Slow-growing reef corals as climate archives: A case study of the Middle Eocene Climatic Optimum 40 Ma ago. Science Advances, 2022, 8, .	10.3	1
64	On the relationship between Scandinavian extreme precipitation days, atmospheric blocking and Red Sea coral oxygen isotopes. , 0, , .		1