

# Norbert Frank

## List of Publications by Citations

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113  
papers

3,710  
citations

36  
h-index

57  
g-index

142  
ext. papers

4,308  
ext. citations

4.4  
avg, IF

4.94  
L-index

#	Paper	IF	Citations
113	Strong and deep Atlantic meridional overturning circulation during the last glacial cycle. <i>Nature</i> , <b>2015</b> , 517, 73-6	50.4	291
112	Speleothem-based paleoclimate record from northern Oman. <i>Geology</i> , <b>1998</b> , 26, 499	5	150
111	Rapid and accurate U-Th dating of ancient carbonates using inductively coupled plasma-quadrupole mass spectrometry. <i>Chemical Geology</i> , <b>2010</b> , 272, 1-11	4.2	105
110	Sediment sources and East Asian monsoon intensity over the last 450 ky. Mineralogical and geochemical investigations on South China Sea sediments. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , <b>2005</b> , 228, 260-277	2.9	100
109	Evolution of weathering patterns in the Indo-Burman Ranges over the last 280 kyr: Effects of sediment provenance on $^{87}\text{Sr}/^{86}\text{Sr}$ ratios tracer. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2006</b> , 7, n/a-n/a	3.6	100
108	GEOTRACES intercalibration of neodymium isotopes and rare earth element concentrations in seawater and suspended particles. Part 1: reproducibility of results for the international intercomparison. <i>Limnology and Oceanography: Methods</i> , <b>2012</b> , 10, 234-251	2.6	93
107	Warm Period Growth of Travertine during the Last Interglaciation in Southern Germany. <i>Quaternary Research</i> , <b>2000</b> , 54, 38-48	1.9	93
106	Eastern North Atlantic deep-sea corals: tracing upper intermediate water $\delta^{14}\text{C}$ during the Holocene. <i>Earth and Planetary Science Letters</i> , <b>2004</b> , 219, 297-309	5.3	88
105	Li/Mg systematics in scleractinian corals: Calibration of the thermometer. <i>Geochimica Et Cosmochimica Acta</i> , <b>2014</b> , 132, 288-310	5.5	79
104	Late Quaternary climatic control on erosion and weathering in the eastern Tibetan Plateau and the Mekong Basin. <i>Quaternary Research</i> , <b>2005</b> , 63, 316-328	1.9	78
103	The geochemistry of deep-sea coral skeletons: A review of vital effects and applications for palaeoceanography. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , <b>2014</b> , 99, 184-198	2.3	74
102	Start of the last interglacial period at 135 ka: Evidence from a high Alpine speleothem. <i>Geology</i> , <b>2002</b> , 30, 815	5	74
101	Northeastern Atlantic cold-water coral reefs and climate. <i>Geology</i> , <b>2011</b> , 39, 743-746	5	72
100	Synchronous and proportional deglacial changes in Atlantic meridional overturning and northeast Brazilian precipitation. <i>Paleoceanography</i> , <b>2017</b> , 32, 622-633		70
99	Biological and physical controls in the Southern Ocean on past millennial-scale atmospheric CO <sub>2</sub> changes. <i>Nature Communications</i> , <b>2016</b> , 7, 11539	17.4	70
98	The Holocene occurrence of cold water corals in the NE Atlantic: Implications for coral carbonate mound evolution. <i>Marine Geology</i> , <b>2009</b> , 266, 129-142	3.3	70
97	Transferring radiometric dating of the last interglacial sea level high stand to marine and ice core records. <i>Earth and Planetary Science Letters</i> , <b>2008</b> , 265, 183-194	5.3	70

96	A new technique for precise uranium-series dating of travertine micro-samples. <i>Geochimica Et Cosmochimica Acta</i> , <b>2002</b> , 66, 4261-4272	5.5	67
95	Glacial cold-water coral growth in the Gulf of Cádiz: Implications of increased palaeo-productivity. <i>Earth and Planetary Science Letters</i> , <b>2010</b> , 298, 405-416	5.3	66
94	Neodymium isotopic composition of deep-sea corals from the NE Atlantic: implications for past hydrological changes during the Holocene. <i>Quaternary Science Reviews</i> , <b>2010</b> , 29, 2509-2517	3.9	65
93	Carbonate mounds in a mud volcano province off north-west Morocco: Key to processes and controls. <i>Marine Geology</i> , <b>2008</b> , 248, 74-96	3.3	62
92	Diagenetic formation of gypsum and dolomite in a cold-water coral mound in the Porcupine Seabight, off Ireland. <i>Sedimentology</i> , <b>2010</b> , 57, 786-805	3.3	60
91	Productivity controlled cold-water coral growth periods during the last glacial off Mauritania. <i>Marine Geology</i> , <b>2011</b> , 280, 143-149	3.3	59
90	Cold-water coral habitats in the Penmarc'h and Guilvinec Canyons (Bay of Biscay): Deep-water versus shallow-water settings. <i>Marine Geology</i> , <b>2011</b> , 282, 40-52	3.3	59
89	Coral provides way to age deep water. <i>Nature</i> , <b>1998</b> , 392, 347-348	50.4	59
88	The large-scale evolution of neodymium isotopic composition in the global modern and Holocene ocean revealed from seawater and archive data. <i>Chemical Geology</i> , <b>2017</b> , 457, 131-148	4.2	58
87	Morphology and sedimentology of (clustered) cold-water coral mounds at the south Rockall Trough margins, NE Atlantic Ocean. <i>Facies</i> , <b>2009</b> , 55, 1-26	1.8	55
86	Nd isotopes in deep-sea corals in the North-eastern Atlantic. <i>Quaternary Science Reviews</i> , <b>2010</b> , 29, 2499-2508	3.9	54
85	A geochemical perspective on Parisian urban history based on U-Th dating, laminae counting and yttrium and REE concentrations of recent carbonates in underground aqueducts. <i>Quaternary Geochronology</i> , <b>2014</b> , 24, 44-53	2.7	50
84	Extracting foraminiferal seawater Nd isotope signatures from bulk deep sea sediment by chemical leaching. <i>Chemical Geology</i> , <b>2016</b> , 439, 189-204	4.2	48
83	Successive reef depositional events along the Marquesas foreslopes (French Polynesia) since 26 ka. <i>Marine Geology</i> , <b>2008</b> , 254, 18-34	3.3	46
82	Global ocean conveyor lowers extinction risk in the deep sea. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , <b>2014</b> , 88, 8-16	2.5	43
81	Tsunami deposits in Santiago Island (Cape Verde archipelago) as possible evidence of a massive flank failure of Fogos volcano. <i>Sedimentary Geology</i> , <b>2011</b> , 239, 129-145	2.8	42
80	Cold-water coral mounds on the Pen Duick Escarpment, Gulf of Cadiz: The MiCROSYSTEMS project approach. <i>Marine Geology</i> , <b>2011</b> , 282, 102-117	3.3	41
79	Open system U-series ages of corals from a subsiding reef in New Caledonia: Implications for sea level changes, and subsidence rate. <i>Earth and Planetary Science Letters</i> , <b>2006</b> , 249, 274-289	5.3	40

78	Variations of biogenic particle flux in the southern Atlantic section of the Subantarctic Zone during the late Quaternary: Evidence from sedimentary and. <i>Marine Geology</i> , <b>1999</b> , 159, 63-78	3.3	38
77	The chronology and structure of the western New Caledonian barrier reef tracts. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , <b>2008</b> , 268, 91-105	2.9	36
76	The giant Mauritanian cold-water coral mound province: Oxygen control on coral mound formation. <i>Quaternary Science Reviews</i> , <b>2018</b> , 185, 135-152	3.9	35
75	Coherency of late Holocene European speleothem $\delta^{18}O$ records linked to North Atlantic Ocean circulation. <i>Climate Dynamics</i> , <b>2017</b> , 49, 595-618	4.2	35
74	Barium isotopes in cold-water corals. <i>Earth and Planetary Science Letters</i> , <b>2018</b> , 491, 183-192	5.3	32
73	Late Holocene intermediate water variability in the northeastern Atlantic as recorded by deep-sea corals. <i>Earth and Planetary Science Letters</i> , <b>2012</b> , 313-314, 34-44	5.3	31
72	New ESR/U-series data for the early Middle Pleistocene site of Isernia la Pineta, Italy. <i>Radiation Measurements</i> , <b>2011</b> , 46, 847-852	1.5	30
71	High precision U-series dating of scleractinian cold-water corals using an automated chromatographic U and Th extraction. <i>Chemical Geology</i> , <b>2017</b> , 475, 140-148	4.2	29
70	The Middle Pleistocene site of Guado San Nicola (Monteroduni, Central Italy) on the Lower/Middle Palaeolithic transition. <i>Quaternary International</i> , <b>2016</b> , 411, 301-315	2	28
69	The earliest settlers of Mesoamerica date back to the late Pleistocene. <i>PLoS ONE</i> , <b>2017</b> , 12, e0183345	3.7	28
68	Reconstruction of late Holocene autumn/winter precipitation variability in SW Romania from a high-resolution speleothem trace element record. <i>Earth and Planetary Science Letters</i> , <b>2018</b> , 499, 122-133	5.3	27
67	Nd isotopic composition of water masses and dilution of the Mediterranean outflow along the southwest European margin. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2011</b> , 12, n/a-n/a	3.6	27
66	New insights into hydrological exchange between the South China Sea and the Western Pacific Ocean based on the Nd isotopic composition of seawater. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , <b>2015</b> , 122, 25-40	2.3	26
65	Revisiting the Quaternary development history of the western New Caledonian shelf system: From ramp to barrier reef. <i>Marine Geology</i> , <b>2011</b> , 280, 57-75	3.3	26
64	Thorium and uranium isotopes in a manganese nodule from the Peru basin determined by alpha spectrometry and thermal ionization mass spectrometry (TIMS): Are manganese supply and growth related to climate?. <i>Geologische Rundschau: Zeitschrift Fur Allgemeine Geologie</i> , <b>1996</b> , 85, 577-585		24
63	Sensitivity of Bunker Cave to climatic forcings highlighted through multi-annual monitoring of rain-, soil-, and dripwaters. <i>Chemical Geology</i> , <b>2017</b> , 449, 194-205	4.2	23
62	Multiple dating approach ( $^{14}C$ , $^{230}Th/U$ and $^{36}Cl$ ) of tsunami-transported reef-top boulders on Bonaire (Leeward Antilles) [Current achievements and challenges. <i>Marine Geology</i> , <b>2018</b> , 396, 100-113	3.3	23
61	. <i>IEEE Geoscience and Remote Sensing Letters</i> , <b>2014</b> , 11, 1896-1900	4.1	23

60	Late Miocene to early Pliocene climate variability off NW Africa (ODP Site 659). <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , <b>2014</b> , 401, 81-95	2.9	21
59	The resilience and sensitivity of Northeast Atlantic deep water Nδ to overprinting by detrital fluxes over the past 30,000 years. <i>Geochimica Et Cosmochimica Acta</i> , <b>2019</b> , 245, 79-97	5.5	21
58	420,000 year assessment of fault leakage rates shows geological carbon storage is secure. <i>Scientific Reports</i> , <b>2019</b> , 9, 769	4.9	20
57	Decadal changes in the mid-depth water mass dynamic of the Northeastern Atlantic margin (Bay of Biscay). <i>Earth and Planetary Science Letters</i> , <b>2013</b> , 364, 134-144	5.3	20
56	<sup>210</sup> Pb- <sup>226</sup> Ra chronology reveals rapid growth rate of <i>Madrepora oculata</i> and <i>Lophelia pertusa</i> on world's largest cold-water coral reef. <i>Biogeosciences</i> , <b>2012</b> , 9, 1253-1265	4.6	20
55	Diagenetic processes in carbonate mound sediments at the south-west Rockall Trough margin. <i>Sedimentology</i> , <b>2010</b> , 57, 912-931	3.3	20
54	Kinematics of the Corinth Gulf inferred from calcite dating and syntectonic sedimentary characteristics. <i>Comptes Rendus - Geoscience</i> , <b>2004</b> , 336, 281-290	1.4	20
53	Two pillars of cold-water coral reefs along Atlantic European margins: Prevalent association of <i>Madrepora oculata</i> with <i>Lophelia pertusa</i> , from reef to colony scale. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , <b>2017</b> , 145, 110-119	2.3	19
52	Interglacial occurrence of cold-water corals off Cape Lookout (NW Atlantic): First evidence of the Gulf Stream influence. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , <b>2015</b> , 105, 158-170	2.5	19
51	Cross-Dating (Th/U-14C) of Calcite Covering Prehistoric Paintings at Serra da Capivara National Park, Piaui, Brazil. <i>Radiocarbon</i> , <b>2013</b> , 55, 1191-1198	4.6	19
50	The climate influence on the mid-depth Northeast Atlantic gyres viewed by cold-water corals. <i>Geophysical Research Letters</i> , <b>2011</b> , 38, n/a-n/a	4.9	19
49	Coral mound development at the Campeche cold-water coral province, southern Gulf of Mexico: Implications of Antarctic Intermediate Water increased influence during interglacials. <i>Marine Geology</i> , <b>2017</b> , 392, 53-65	3.3	18
48	Neodymium isotopic composition in foraminifera and authigenic phases of the South China Sea sediments: Implications for the hydrology of the North Pacific Ocean over the past 25 kyr. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2015</b> , 16, 3883-3904	3.6	17
47	A High-Resolution Coral-Based <sup>14</sup> C Record of Surface Water Processes in the Western Mediterranean Sea. <i>Radiocarbon</i> , <b>2013</b> , 55, 1617-1630	4.6	16
46	Explaining discrepant depth profiles of <sup>234</sup> U/ <sup>238</sup> U and <sup>230</sup> Th/ <sup>ex</sup> c in Mn-crusts. <i>Geochimica Et Cosmochimica Acta</i> , <b>1999</b> , 63, 2211-2218	5.5	16
45	Fingerprinting Northeast Atlantic water masses using neodymium isotopes. <i>Geochimica Et Cosmochimica Acta</i> , <b>2017</b> , 210, 267-288	5.5	14
44	Carbon and oxygen isotope fractionation in the water-calcite-aragonite system. <i>Geochimica Et Cosmochimica Acta</i> , <b>2018</b> , 235, 127-139	5.5	14
43	Sedimentation patterns on a cold-water coral mound off Mauritania. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , <b>2014</b> , 99, 307-315	2.3	14

42	Protactinium determination in manganese crust VA13/2 by thermal ionization mass spectrometry (TIMS). <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>1999</b> , 149, 353-360	1.2	14
41	40 Ar/ 39 Ar and ESR/U-series dates for Guado San Nicola, Middle Pleistocene key site at the Lower/Middle Palaeolithic transition in Italy. <i>Quaternary Geochronology</i> , <b>2016</b> , 36, 67-75	2.7	14
40	South Atlantic intermediate water advances into the North-east Atlantic with reduced Atlantic meridional overturning circulation during the last glacial period. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2016</b> , 17, 2336-2353	3.6	14
39	A stalactite record of four relative sea-level highstands during the Middle Pleistocene Transition. <i>Quaternary Science Reviews</i> , <b>2017</b> , 173, 92-100	3.9	12
38	ESR and ESR/U-series dating study of several middle Palaeolithic sites of Pléneuf-Val-André (Brittany, France): Piñu, Les Vallées and Nantois. <i>Quaternary Geochronology</i> , <b>2012</b> , 10, 424-429	2.7	12
37	Paleotemperatures from deep-sea corals: scale effects <b>2005</b> , 1081-1096		12
36	The importance of the terrigenous fraction within a cold-water coral mound: A case study. <i>Marine Geology</i> , <b>2011</b> , 282, 13-25	3.3	11
35	The Chan Hol cave near Tulum (Quintana Roo, Mexico): evidence for long-lasting human presence during the early to middle Holocene. <i>Journal of Quaternary Science</i> , <b>2018</b> , 33, 444-454	2.3	10
34	Deep-water corals of the northeastern Atlantic margin: carbonate mound evolution and upper intermediate water ventilation during the Holocene <b>2005</b> , 113-133		10
33	Deglacial upslope shift of NE Atlantic intermediate waters controlled slope erosion and cold-water coral mound formation (Porcupine Seabight, Irish margin). <i>Quaternary Science Reviews</i> , <b>2020</b> , 237, 106310	3.9	8
32	Out of the Mediterranean? Post-glacial colonization pathways varied among cold-water coral species. <i>Journal of Biogeography</i> , <b>2019</b> , 46, 915-931	4.1	7
31	Imprint of Holocene Climate Variability on Cold-Water Coral Reef Growth at the SW Rockall Trough Margin, NE Atlantic. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2018</b> , 19, 2437-2452	3.6	7
30	Carbonate precipitation, U-series dating and U-isotopic variations in a Holocene travertine platform at Bad Langensalza - Thuringia Basin, Germany. <i>Quaternaire</i> , <b>2006</b> , 333-342	0.5	6
29	Speleothems from the High-Alpine Spannagel Cave, Zillertal Alps (Austria) <b>2004</b> , 243-256		6
28	Millennial-scale variations of the Holocene North Atlantic mid-depth gyre inferred from radiocarbon and neodymium isotopes in cold water corals. <i>Quaternary Science Reviews</i> , <b>2019</b> , 211, 93-106	3.9	5
27	New evidence for an early settlement of the Yucatán Peninsula, Mexico: The Chan Hol 3 woman and her meaning for the Peopling of the Americas. <i>PLoS ONE</i> , <b>2020</b> , 15, e0227984	3.7	5
26	<sup>230</sup> Th/U dating of the Trojan Water quarries <i>Archaeometry</i> , <b>2002</b> , 44, 305-314	1.6	5
25	Speleothem growth phases in the central Eastern Desert of Egypt reveal enhanced humidity throughout MIS 5. <i>Quaternary International</i> , <b>2021</b> ,	2	5



24	Evaluating the potential of tree-ring methodology for cross-dating of three annually laminated stalagmites from Zoolithencave (SE Germany). <i>Quaternary Geochronology</i> , <b>2019</b> , 52, 37-50	2.7	4
23	Trace element partitioning in fluvial tufa reveals variable portions of biologically influenced calcite precipitation. <i>Geochimica Et Cosmochimica Acta</i> , <b>2018</b> , 225, 176-191	5.5	4
22	Hells Bells Unique speleothems from the Yucatán Peninsula, Mexico, generated under highly specific subaquatic conditions. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , <b>2018</b> , 489, 209-229	2.9	4
21	Microborer ichnocoenoses in Quaternary corals from New Caledonia: reconstructions of paleo-water depths and reef growth strategies in relation to environmental changes. <i>Quaternary Science Reviews</i> , <b>2011</b> , 30, 2827-2838	3.9	4
20	Solenosmilia variabilis-bearing cold-water coral mounds off Brazil. <i>Coral Reefs</i> , <b>2020</b> , 39, 69-83	4.2	4
19	Climate-induced speleothem radiocarbon variability on Socotra Island from the Last Glacial Maximum to the Younger Dryas. <i>Climate of the Past</i> , <b>2020</b> , 16, 409-421	3.9	3
18	Restitution de l'histoire de la mousson nord-africaine entre 6,2 et 4,9Ma et relations possibles avec les événements tardi-Miocène. <i>Comptes Rendus - Geoscience</i> , <b>2008</b> , 340, 749-760	1.4	3
17	A record of changing redox conditions in the northern Peru Basin during the Late Quaternary deduced from Mn/Fe and growth rate variations in two diagenetic manganese nodules. <i>Earth and Planetary Science Letters</i> , <b>1999</b> , 170, 403-415	5.3	3
16	A simplified procedure for the measurement of <sup>231</sup> Pa in Mn encrustations. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>1995</b> , 101, 258-262	1.2	3
15	Limited influence of basalt weathering inputs on the seawater neodymium isotope composition of the northern Iceland Basin. <i>Chemical Geology</i> , <b>2019</b> , 511, 358-370	4.2	3
14	Cross-Dating (Th/U-14C) of Calcite Covering Prehistoric Paintings at Serra da Capivara National Park, Piauí, Brazil. <i>Radiocarbon</i> , <b>2013</b> , 55,	4.6	2
13	Characterizing tufa barrages in relation to channel bed morphology in a small karstic river by airborne LiDAR topo-bathymetry. <i>Proceedings of the Geologists Association</i> , <b>2016</b> , 127, 664-675	1.1	2
12	Solar forcing of early Holocene droughts on the Yucatán peninsula. <i>Scientific Reports</i> , <b>2021</b> , 11, 13885	4.9	2
11	Geochemical Insights Into an Active Calcareous Tufa Depositing System in Southern Germany. <i>Procedia Earth and Planetary Science</i> , <b>2017</b> , 17, 328-331		1
10	Palynological Study of Carbonated Mounds during the Holocene along the Atlantic and Mediterranean Moroccan Margins. <i>Review of Palaeobotany and Palynology</i> , <b>2020</b> , 278, 104213	1.7	1
9	Last Interglacial Climate in Northern Sweden Insights from a Speleothem Record. <i>Quaternary</i> , <b>2019</b> , 2, 29	2.2	1
8	A High-Resolution Coral-Based <sup>14</sup> C Record of Surface Water Processes in the Western Mediterranean Sea. <i>Radiocarbon</i> , <b>2013</b> , 55,	4.6	1
7	The fate of a travertine record: Impact of early diagenesis on the Y-10 core (Mammoth Hot Springs, Yellowstone National Park, USA). <i>Depositional Record</i> ,	2	1

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|---|--|-----|---|
| 6 | Constraining the formation of authigenic carbonates in a seepage-affected cold-water coral mound by lipid biomarkers. <i>Geobiology</i> , <b>2020</b> , 18, 185-206                        | 4.3 | ○ |
| 5 | HEIDELBERG RADIOCARBON LAB [ESTABLISHING A NEW CARBON DIOXIDE EXTRACTION LINE FOR CARBONATE SAMPLES. <i>Radiocarbon</i> , <b>2021</b> , 63, 915-924  | 4.6 | ○ |
| 4 | Reconstruction of Middle to Late Quaternary sea level using submerged speleothems from the northeastern Yucatán Peninsula. <i>Journal of Quaternary Science</i> , <b>2021</b> , 36, 1190   | 2.3 | ○ |
| 3 | The impact of seasonal and event-based infiltration on transition metals (Cu, Ni, Co) in tropical cave drip water.. <i>Rapid Communications in Mass Spectrometry</i> , <b>2022</b> , e9278 | 2.2 | ○ |
| 2 | Dating of Corals and Other Geological Samples via the Radioactive Disequilibrium of Uranium and Thorium Isotopes. <i>Frontiers in Earth Sciences</i> , <b>2021</b> , 89-100                | 1.6 |   |
| 1 | Speleothems From The High-Alpine Spannagel Cave, Zillertal Alps (Austria) <b>2007</b> , 243-256  |     |   |