Ludvig A LÃ¶wemark

List of Publications by Year
in descending order

78 papers	2,925 citations	126907 33 h-index	175258 52 g-index
80 all docs	80 docs citations	80 times ranked	3439 citing authors

#	Article	IF	Citations
1	Normalizing XRF-scanner data: A cautionary note on the interpretation of high-resolution records from organic-rich lakes. Journal of Asian Earth Sciences, 2011, 40, 1250-1256.	2.3	229
2	Ocean surface water response to short-term climate changes revealed by coccolithophores from the Gulf of Cadiz (NE Atlantic) and Alboran Sea (W Mediterranean). Palaeogeography, Palaeoclimatology, Palaeoecology, 2004, 205, 317-336.	2.3	138
3	Distribution and quantity of microplastic on sandy beaches along the northern coast of Taiwan. Marine Pollution Bulletin, 2016, 111, 126-135.	5.0	127
4	Mg/Ca ratios of twoGlobigerinoides ruber(white) morphotypes: Implications for reconstructing past tropical/subtropical surface water conditions. Geochemistry, Geophysics, Geosystems, 2005, 6, n/a-n/a.	2.5	106
5	Microplastic pollution of the Tamsui River and its tributaries in northern Taiwan: Spatial heterogeneity and correlation with precipitation. Environmental Pollution, 2020, 260, 113935.	7.5	105
6	An Arctic Ocean ice shelf during MIS 6 constrained by new geophysical and geological data. Quaternary Science Reviews, 2010, 29, 3505-3517.	3.0	104
7	On the influence of sea level and monsoon climate on the southern South China Sea freshwater budget over the last 22,000 years. Quaternary Science Reviews, 2006, 25, 1475-1488.	3.0	84
8	Recommendations for using XRF core scanning as a tool in tephrochronology. Holocene, 2012, 22, 371-375.	1.7	77
9	Ethological implications from a detailed X-ray radiograph and 14C study of the modern deep-sea Zoophycos. Palaeogeography, Palaeoclimatology, Palaeoecology, 2003, 192, 101-121.	2.3	74
10	Geochemical responses to paleoclimatic changes in southern Sweden since the late glacial: the HÃsseldala Port lake sediment record. Journal of Paleolimnology, 2013, 50, 57-70.	1.6	74
11	Rainfall variations in central Indo-Pacific over the past 2,700 y. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 17201-17206.	7.1	73
12	Reconstructing the southern South China Sea upper water column structure since the Last Glacial Maximum: Implications for the East Asian winter monsoon development. Paleoceanography, 2010, 25, .	3.0	72
13	Testing commonly used Xâ€ray fluorescence core scanningâ€based proxies for organicâ€rich lake sediments and peat. Boreas, 2016, 45, 180-189.	2.4	67
14	Arctic Ocean Mn-stratigraphy: genesis, synthesis and inter-basin correlation. Quaternary Science Reviews, 2014, 92, 97-111.	3.0	64
15	Trace fossils as a paleoceanographic tool: evidence from Late Quaternary sediments of the southwestern Iberian margin. Marine Geology, 2004, 204, 27-41.	2.1	63
16	Arctic Ocean manganese contents and sediment colour cycles. Polar Research, 2008, 27, 105-113.	1.6	60
17	Enhanced Mediterraneanâ€Atlantic exchange during Atlantic freshening phases. Geochemistry, Geophysics, Geosystems, 2010, 11, .	2.5	57
18	High-resolution geophysical observations of the Yermak Plateau and northern Svalbard margin: implications for ice-sheet grounding and deep-keeled icebergs. Quaternary Science Reviews, 2010, 29, 3518-3531.	3.0	57

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19	Dating errors in high-resolution stratigraphy: a detailed X-ray radiograph and AMS- 14 C study of Zoophycos burrows. Marine Geology, 2001, 177, 191-198.	2.1	56
20	Current perspectives on the capabilities of high resolution XRF core scanners. Quaternary International, 2019, 514, 5-15.	1.5	54
21	Oceanic density fronts steering bottom-current induced sedimentation deduced from a 50Âka contourite-drift record and numerical modeling (off NW Spain). Quaternary Science Reviews, 2015, 112, 207-225.	3.0	52
22	A test of different factors influencing the isotopic signal of planktonic foraminifera in surface sediments from the northern South China Sea. Marine Micropaleontology, 2005, 55, 49-62.	1.2	50
23	An Arctic perspective on dating Mid-Late Pleistocene environmental history. Quaternary Science Reviews, 2014, 92, 9-31.	3.0	48
24	Testing ethological hypotheses of the trace fossil Zoophycos based on Quaternary material from the Greenland and Norwegian Seas. Palaeogeography, Palaeoclimatology, Palaeoecology, 2015, 425, 1-13.	2.3	44
25	A multiproxy lake record from Inner Mongolia displays a late Holocene teleconnection between Central Asian and North Atlantic climates. Quaternary International, 2010, 227, 170-182.	1.5	43
26	Changes in sea ice cover and ice sheet extent at the Yermak Plateau during the last 160 ka â€“ Reconstructions from biomarker records. Quaternary Science Reviews, 2018, 182, 93-108.	3.0	43
27	Late Quaternary spatial and temporal variability in Arctic deep-sea bioturbation and its relation to Mn cycles. Palaeogeography, Palaeoclimatology, Palaeoecology, 2012, 365-366, 192-208.	2.3	42
28	Lake Kumphawapi â€“ an archive of Holocene palaeoenvironmental and palaeoclimatic changes in northeast Thailand. Quaternary Science Reviews, 2013, 68, 59-75.	3.0	40
29	Practical guidelines and recent advances in the Itrax XRF core-scanning procedure. Quaternary International, 2019, 514, 16-29.	1.5	39
30	Variations in monsoonal rainfall over the last 21 kyr inferred from sedimentary organic matter in Tung-Yuan Pond, southern Taiwan. Quaternary Science Reviews, 2011, 30, 3413-3422.	3.0	37
31	Ethological analysis of the trace fossil Zoophycos : hints from the Arctic Ocean. Lethaia, 2012, 45, 290-298.	1.4	37
32	Ethology of the Zoophycos-Producer: Arguments against the Gardening Model from 13 org C Evidences of the Spreiten Material. Terrestrial, Atmospheric and Oceanic Sciences, 2004, 15, 713.	0.6	37
33	Temporal variations of the trace fossil Zoophycos in a 425 ka long sediment record from the South China Sea: implications for the ethology of the Zoophycos producer. Geological Magazine, 2006, 143, 105-114.	1.5	35
34	Sapropel burn-down and ichnological response to late Quaternary sapropel formation in two â^¼400Âky records from the eastern Mediterranean Sea. Palaeogeography, Palaeoclimatology, Palaeoecology, 2006, 239, 406-425.	2.3	34
35	Pyritic and baritic burrows and microbial filaments in postglacial lacustrine clays in the northern Baltic Sea. Journal of the Geological Society, 2010, 167, 1185-1198.	2.1	33
36	Large age differences between planktic foraminifers caused by abundance variations andZoophycosbioturbation. Paleoceanography, 2004, 19, n/a-n/a.	3.0	32

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37	Hydroclimatic shifts in northeast Thailand during the last two millennia â€“ the record of Lake Pa Kho. Quaternary Science Reviews, 2015, 111, 62-71.	3.0	31
38	Biogenic and detrital-rich intervals in central Arctic Ocean cores identified using x-ray fluorescence scanning. Polar Research, 2013, 32, 18386.	1.6	28
39	Automatic image analysis of X-ray radiographs: a new method for ichnofabric evaluation. Deep-Sea Research Part I: Oceanographic Research Papers, 2003, 50, 815-827.	1.4	25
40	Bias in foraminiferal multispecies reconstructions of paleohydrographic conditions caused by foraminiferal abundance variations and bioturbational mixing: A model approach. Marine Geology, 2008, 256, 101-106.	2.1	25
41	Holocene environmental changes in northeast Thailand as reconstructed from a tropical wetland. Global and Planetary Change, 2012, 92-93, 148-161.	3.5	25
42	Palaeoenvironmental record of glacial lake evolution during the early <scp>H</scp>olocene at <scp>S</scp>okli, <scp>NE F</scp>inland. Boreas, 2014, 43, 362-376.	2.4	25
43	Choosing optimal exposure times for <scp>XRF</scp> coreâ€scanning: Suggestions based on the analysis of geological reference materials. Geochemistry, Geophysics, Geosystems, 2016, 17, 1558-1566.	2.5	24
44	Rapid assessment of heavy metal pollution using ion-exchange resin sachets and micro-XRF core-scanning. Scientific Reports, 2019, 9, 6601.	3.3	23
45	Middle to Late Pleistocene Arctic paleoceanographic changes based on sedimentary records from Mendeleev Ridge and Makarov Basin. Quaternary Science Reviews, 2020, 228, 106105.	3.0	23
46	Can XRF scanning of speleothems be used as a non-destructive method to identify paleoflood events in caves?. International Journal of Speleology, 2015, 44, 17-23.	1.0	22
47	Zoophycos cyclicity during the last 425ka in the northeastern South China Sea: Evidence for monsoon fluctuation at the Milankovitch scale. Palaeogeography, Palaeoclimatology, Palaeoecology, 2011, 305, 256-263.	2.3	21
48	Schaubcylindrichnus formosusisp. nov. in Miocene Sandstones from Northeastern Taiwan. Ichnos, 2006, 13, 267-276.	0.5	19
49	Flow of Canadian basin deep water in the Western Eurasian Basin of the Arctic Ocean. Deep-Sea Research Part I: Oceanographic Research Papers, 2010, 57, 577-586.	1.4	19
50	Morphology, ethology and taxonomy of the ichnogenus Schaubcylindrichnus: Notes for clarification. Palaeogeography, Palaeoclimatology, Palaeoecology, 2010, 297, 184-187.	2.3	18
51	Monsoonal Forcing of European Iceâ€Sheet Dynamics During the Late Quaternary. Geophysical Research Letters, 2018, 45, 7066-7074.	4.0	17
52	Paleohydrological changes in northeastern Taiwan over the past 2ky inferred from biological proxies in the sediment record of a floodplain lake. Palaeogeography, Palaeoclimatology, Palaeoecology, 2014, 410, 401-411.	2.3	15
53	Variations in glacial and interglacial marine conditions over the last two glacial cycles off northern Greenland. Quaternary Science Reviews, 2016, 147, 164-177.	3.0	14
54	High resolution XRF core scanners: A key tool for the environmental and palaeoclimate sciences. Quaternary International, 2019, 514, 1-4.	1.5	13

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55	Hydroclimate variability of central Indo-Pacific region during the Holocene. Quaternary Science Reviews, 2021, 253, 106779.	3.0	13
56	New evidence for a glacioeustatic influence on deep water circulation, bottom water ventilation and primary productivity in the South China Sea. Dynamics of Atmospheres and Oceans, 2009, 47, 138-153.	1.8	12
57	Stratigraphic Occurrences of Sub-Polar Planktic Foraminifera in Pleistocene Sediments on the Lomonosov Ridge, Arctic Ocean. Frontiers in Earth Science, 2019, 7, .	1.8	12
58	Development of an Eemian (MIS 5e) Interglacial palaeolake at Sokli (N Finland) inferred using multiple proxies. Palaeogeography, Palaeoclimatology, Palaeoecology, 2016, 463, 11-26.	2.3	11
59	Evidence for targeted elasmobranch predation on thalassinidean shrimp in the Miocene Taliao Formation, NE Taiwan. Lethaia, 2015, 48, 227-234.	1.4	10
60	A peculiar reworking ofOphiomorphashafts in the Miocene Nangang Formation, Taiwan. Geodinamica Acta, 2016, 28, 71-85.	2.2	10
61	Disentangling Natural and Anthropogenic Signals in Lacustrine Records: An Example from the Ilan Plain, NE Taiwan. Frontiers in Earth Science, 2016, 4, .	1.8	9
62	New constraints on Arctic Ocean Mn stratigraphy from radiocarbon dating on planktonic foraminifera. Quaternary International, 2017, 447, 13-26.	1.5	9
63	Deciphering â^¼45.000 years of Arctic Ocean lithostratigraphic variability through multivariate statistical analysis. Quaternary International, 2019, 514, 141-151.	1.5	9
64	A muted El NiÃ±o-like condition during late MIS 3. Quaternary Science Reviews, 2021, 254, 106782.	3.0	9
65	Re-evaluating ¹⁴C dating accuracy in deep-sea sediment archives. Geochronology, 2020, 2, 17-31.	2.5	9
66	Deformation of pyritized burrows: A novel technique for the detection and estimation of core shortening in gravity cores. Marine Geology, 2006, 233, 37-48.	2.1	7
67	What caused the cultural hiatus in the Iron-Age Kiwulan Site, northeastern Taiwan?. Quaternary International, 2019, 514, 186-194.	1.5	7
68	Importance and Usefulness of Trace Fossils and Bioturbation in Paleoceanography. , 2007, , 413-427.		5
69	New insights from XRF core scanning data into boreal lake ontogeny during the Eemian (Marine) Tj ETQq1 1 0.784314 rgBT /Overlock	1.7	5
70	The 20-million-year old lair of an ambush-predatory worm preserved in northeast Taiwan. Scientific Reports, 2021, 11, 1174.	3.3	5
71	Age-Heterogeneity in Marine Sediments Revealed by Three-Dimensional High-Resolution Radiocarbon Measurements. Frontiers in Earth Science, 2022, 10, .	1.8	3
72	East Asian winter monsoon variation during the last 3000â€‰years as recorded in a subtropical mountain lake, northeastern Taiwan. Holocene, 0, , 095968362110190.	1.7	2

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73	Corascope: Software assisted XRF scan merging. Computers and Geosciences, 2021, 156, 104906.	4.2	2
74	Selective colonization after storm events in a delta environment: applied ichnology from the early Miocene of Taiwan. Ichnos, 0, , 1-13.	0.5	1
75	Potential and pitfalls of XRF-CS analysis of ion-exchange resins in environmental studies. Scientific Reports, 2021, 11, 20941.	3.3	1
76	The Tienchi Pond on Lanyu Island (Western Pacific): Lake formation and potential as environmental archive. Journal of Asian Earth Sciences, 2015, 114, 435-446.	2.3	0
77	Editorial: AMS C14 applications. Quaternary International, 2017, 447, 1-2.	1.5	0
78	A Test of the Gardening Hypothesis for the Trace Fossil <italic>Zoophycos</italic>. , 2007, , .		0