Jens Matthiessen

List of Publications by Year
in descending order

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76 papers	6,392 citations	87723 38 h-index	88477 70 g-index
83 all docs	83 docs citations	83 times ranked	4789 citing authors

#	Article	IF	Citations
1	Subtropical Arctic Ocean temperatures during the Palaeocene/Eocene thermal maximum. Nature, 2006, 441, 610-613.	13.7	578
2	Constraints on the magnitude and patterns of ocean cooling at the Last Glacial Maximum. Nature Geoscience, 2009, 2, 127-132.	5.4	517
3	The Cenozoic palaeoenvironment of the Arctic Ocean. Nature, 2006, 441, 601-605.	13.7	471
4	Atlas of modern dinoflagellate cyst distribution based on 2405 data points. Review of Palaeobotany and Palynology, 2013, 191, 1-197.	0.8	369
5	Dinoflagellate cyst assemblages as tracers of sea-surface conditions in the northern North Atlantic, Arctic and sub-Arctic seas: the new â€˜n= 677â€™ data base and its application for quantitative palaeoceanographic reconstruction. Journal of Quaternary Science, 2001, 16, 681-698.	1.1	303
6	Episodic fresh surface waters in the Eocene Arctic Ocean. Nature, 2006, 441, 606-609.	13.7	284
7	Reconstruction of sea-surface conditions at middle to high latitudes of the Northern Hemisphere during the Last Glacial Maximum (LGM) based on dinoflagellate cyst assemblages. Quaternary Science Reviews, 2005, 24, 897-924.	1.4	283
8	Last Interglacial Arctic warmth confirms polar amplification of climate change. Quaternary Science Reviews, 2006, 25, 1383-1400.	1.4	215
9	Cold marine indicators of the late Quaternary: the new dinoflagellate cyst genusIslandinium and related morphotypes. Journal of Quaternary Science, 2001, 16, 621-636.	1.1	189
10	A multiproxy reconstruction of the evolution of deep and surface waters in the subarctic Nordic seas over the last 30,000yr. Quaternary Science Reviews, 2001, 20, 659-678.	1.4	183
11	The Plio-Pleistocene glaciation of the Barents Seaâ€“Svalbard region: a new model based on revised chronostratigraphy. Quaternary Science Reviews, 2009, 28, 812-829.	1.4	183
12	Organic-walled dinoflagellate cysts: Palynological tracers of sea-surface conditions in middle to high latitude marine environments. Geobios, 1997, 30, 905-920.	0.7	157
13	Determining the absolute abundance of dinoflagellate cysts in recent marine sediments: The Lycopodium marker-grain method put to the test. Review of Palaeobotany and Palynology, 2009, 157, 238-252.	0.8	141
14	Repeated Pleistocene glaciation of the East Siberian continental margin. Nature Geoscience, 2013, 6, 842-846.	5.4	140
15	Reconstruction of sea-surface temperature, salinity, and sea-ice cover in the northern North Atlantic during the last glacial maximum based on dinocyst assemblages. Canadian Journal of Earth Sciences, 2000, 37, 725-750.	0.6	130
16	Distribution patterns of dinoflagellate cysts and other organic-walled microfossils in recent Norwegian-Greenland Sea sediments. Marine Micropaleontology, 1995, 24, 307-334.	0.5	129
17	Plankton in the Norwegian-Greenland Sea: from living communities to sediment assemblages ?an actualistic approach. Geologische Rundschau: Zeitschrift Fur Allgemeine Geologie, 1995, 84, 108.	1.3	119
18	Modern organic-walled dinoflagellate cysts in arctic marine environments and their (paleo-) environmental significance. Palaontologische Zeitschrift, 2005, 79, 3-51.	0.8	98

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19	Marine ice-rafted debris records constrain maximum extent of Saalian and Weichselian ice-sheets along the northern Eurasian margin. Global and Planetary Change, 2001, 31, 45-64.	1.6	96
20	Evidence for ice-free summers in the late Miocene central Arctic Ocean. Nature Communications, 2016, 7, 11148.	5.8	96
21	Manganese-rich brown layers in Arctic Ocean sediments: Composition, formation mechanisms, and diagenetic overprint. Geochimica Et Cosmochimica Acta, 2011, 75, 7668-7687.	1.6	94
22	Freshwater chlorophycean algae in recent marine sediments of the Beaufort, Laptev and Kara Seas (Arctic Ocean) as indicators of river runoff. International Journal of Earth Sciences, 2000, 89, 470-485.	0.9	88
23	Arctic (palaeo) river discharge and environmental change: evidence from the Holocene Kara Sea sedimentary record. Quaternary Science Reviews, 2004, 23, 1485-1511.	1.4	81
24	Pliocene palaeoceanography of the Arctic Ocean and subarctic seas. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2009, 367, 21-48.	1.6	72
25	Effect of early Pliocene uplift on late Pliocene cooling in the Arcticâ€“Atlantic gateway. Earth and Planetary Science Letters, 2014, 387, 132-144.	1.8	71
26	Distribution of common modern dinoflagellate cyst taxa in surface sediments of the Northern Hemisphere in relation to environmental parameters: The new n=1968 database. Marine Micropaleontology, 2020, 159, 101796.	0.5	65
27	Late Quaternary dinoflagellate cyst stratigraphy at the Eurasian continental margin, Arctic Ocean: indications for Atlantic water inflow in the past 150,000 years. Global and Planetary Change, 2001, 31, 65-86.	1.6	62
28	Variations in surface water mass conditions in the Norwegian Sea: Evidence from Holocene coccolith and dinoflagellate cyst assemblages. Marine Micropaleontology, 1992, 20, 129-146.	0.5	61
29	Early Pliocene onset of modern Nordic Seas circulation related to ocean gateway changes. Nature Communications, 2015, 6, 8659.	5.8	59
30	A magnetostratigraphic calibration of Middle Miocene through Pliocene dinoflagellate cyst and acritarch events in the Iceland Sea (Ocean Drilling Program Hole 907A). Review of Palaeobotany and Palynology, 2012, 187, 66-94.	0.8	55
31	Marine dinoflagellate cysts and high latitude Quaternary paleoenvironmental reconstructions: an introduction. Journal of Quaternary Science, 2001, 16, 595-602.	1.1	52
32	Deciphering the palaeoecology of Late Pliocene and Early Pleistocene dinoflagellate cysts. Palaeogeography, Palaeoclimatology, Palaeoecology, 2011, 309, 17-32.	1.0	52
33	A multi-proxy study of Pliocene sediments from ÃŽle de France, North-East Greenland. Palaeogeography, Palaeoclimatology, Palaeoecology, 2002, 186, 1-23.	1.0	49
34	Effects of Arctic freshwater forcing on thermohaline circulation during the Pleistocene. Geology, 2007, 35, 1075.	2.0	48
35	Ballasting by cryogenic gypsum enhances carbon export in a Phaeocystis under-ice bloom. Scientific Reports, 2018, 8, 7703.	1.6	48
36	A forum on Neogene and quaternary dinoflagellate cysts: The edited transcript of a round table discussion held at the third workshop on Neogene and Quaternary dinoflagellates; with taxonomic appendix. Palynology, 1993, 17, 201-239.	0.7	45

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37	An overview and brief description of common marine organic-walled dinoflagellate cyst taxa occurring in surface sediments of the Northern Hemisphere. Marine Micropaleontology, 2020, 159, 101814.	0.5	45
38	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.	1.4	43
39	Dinoflagellate cyst evidence for warm interglacial conditions at the northern Barents Sea margin during marine oxygen isotope stage 5. Journal of Quaternary Science, 2001, 16, 727-737.	1.1	42
40	Re-advance of the Fennoscandian Ice Sheet during Heinrich Event 1. Marine Geology, 2007, 240, 1-18.	0.9	37
41	Response of marine palynomorphs to Neogene climate cooling in the Iceland Sea (ODP Hole 907A). Marine Micropaleontology, 2013, 101, 49-67.	0.5	35
42	Glacial episodes of a freshwater Arctic Ocean covered by a thick ice shelf. Nature, 2021, 590, 97-102.	13.7	32
43	Improved Pleistocene sediment stratigraphy and paleoenvironmental implications for the western Arctic Ocean off the East Siberian and Chukchi margins. Arktos, 2018, 4, 1-20.	1.0	30
44	Magnetic susceptibility and ice-rafted debris in surface sediments of the Nordic Seas: implications for Isotope Stage 3 oscillations. Geo-Marine Letters, 2002, 22, 1-11.	0.5	29
45	Glacial freshwater discharge events recorded by authigenic neodymium isotopes in sediments from the Mendeleev Ridge, western Arctic Ocean. Earth and Planetary Science Letters, 2013, 369-370, 148-157.	1.8	28
46	Natural variability of the Arctic Ocean sea ice during the present interglacial. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 26069-26075.	3.3	28
47	Evidence of 'Mid-Pliocene (~3 Ma) global warmth' in the eastern Arctic Ocean and implications for the Svalbard/Barents Sea ice sheet during the late Pliocene and early Pleistocene (~3-1.7 Ma). Boreas, 2002, 31, 82-93.	1.2	28
48	Norwegian sea-surface palaeoenvironments of marine oxygen-isotope stage 3: the paradoxical response of dinoflagellate cysts. Journal of Quaternary Science, 2002, 17, 349-359.	1.1	25
49	Statistically assessing the correlation between salinity and morphology in cysts produced by the dinoflagellate Protoceratium reticulatum from surface sediments of the North Atlantic Ocean, Mediterraneanâ€“Marmaraâ€“Black Sea region, and Balticâ€“Kattegatâ€“Skagerrak estuarine system. Palaeogeography, Palaeoclimatology, Palaeoecology, 2014, 399, 202-213.	1.0	25
50	Last interglacial surface water conditions in the eastern Nordic Seas inferred from dinocyst and foraminiferal assemblages. Marine Micropaleontology, 2008, 66, 247-263.	0.5	24
51	Sea surface conditions in the southern Nordic Seas during the Holocene based on dinoflagellate cyst assemblages. Holocene, 2016, 26, 722-735.	0.9	21
52	Distribution, Export and Alteration of Fossilizable Plankton in the Nordic Seas. , 2001, , 81-104.		20
53	Ice sheet grounding and iceberg plow marks on the northern and central Yermak Plateau revealed by geophysical data. Quaternary Science Reviews, 2011, 30, 1726-1738.	1.4	20
54	Biogenic barium in surface sediments of the European Nordic Seas. Marine Geology, 2008, 250, 89-103.	0.9	19

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55	Distribution and (palaeo)ecological affinities of the main Spiniferites taxa in the mid-high latitudes of the Northern Hemisphere. Palynology, 2018, 42, 182-202.	0.7	16
56	Quaternary dinoflagellate cysts in the Arctic Ocean: Potential and limitations for stratigraphy and paleoenvironmental reconstructions. Quaternary Science Reviews, 2018, 192, 1-26.	1.4	15
57	Distribution of Calcareous, Siliceous and Organic-Walled Planktic Microfossils in Surface Sediments of the Nordic Seas and their Relation to Surface-Water Masses. , 2001, , 105-127.		15
58	Changes in current patterns in the Fram Strait at the Pliocene/Pleistocene boundary. Quaternary Science Reviews, 2014, 92, 179-189.	1.4	14
59	Late Holocene dinoflagellate cysts as indicators for short-term climate variability in the eastern Laptev Sea (Arctic Ocean). Journal of Quaternary Science, 2001, 16, 711-716.	1.1	13
60	Dinoflagellate Cyst Ecostratigraphy of PlioceneÂ–Pleistocene Sediments from the Yermak Plateau (Arctic Ocean, Hole 911A). , 0, , .		13
61	Neogene dinoflagellate cysts and acritarchs from the high northern latitudes and their relation to sea surface temperature. Marine Micropaleontology, 2017, 136, 51-65.	0.5	12
62	Amino acid racemization in Quaternary foraminifera from the Yermak Plateau, Arctic Ocean. Geochronology, 2019, 1, 53-67.	1.0	11
63	Regional seesaw between the North Atlantic and Nordic Seas during the last glacial abrupt climate events. Climate of the Past, 2017, 13, 729-739.	1.3	10
64	The Potential of Synoptic Plankton Analyses for Paleoclimatic Investigations: Five Plankton Groups from the Holocene Nordic Seas. , 2001, , 291-318.		9
65	Benthic phosphorus cycling within the Eurasian marginal sea ice zone. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2020, 378, 20190358.	1.6	6
66	Impagidinium detroitense and I.? diaphanum: Two new dinoflagellate cyst species from the Pliocene of the North Pacific Ocean, and their biostratigraphic significance. Review of Palaeobotany and Palynology, 2019, 264, 24-37.	0.8	5
67	Arctic Continental Margin Sediments as Possible Fe and Mn Sources to Seawater as Sea Ice Retreats: Insights From the Eurasian Margin. Global Biogeochemical Cycles, 2020, 34, e2020GB006581.	1.9	5
68	Evidence of â€˜Midâ€Pliocene (Ëœ3 Ma) global warmthâ€™ in the eastern Arctic Ocean and implications for the Svalbard/Barents Sea ice sheet during the late Pliocene and early Pleistocene (Ëœ3 â€“ 1.7 Ma). Boreas, 2002, 31, 82-93.	1.2	4
69	Batiacasphaera micropapillata. , 0, , 301-314.		4
70	Reply to: No freshwater-filled glacial Arctic Ocean. Nature, 2022, 602, E4-E6.	13.7	4
71	Batiacasphaera bergenensis and Lavradosphaera elongata â€” New dinoflagellate cyst and acritarch species from the Miocene of the Iceland Sea (ODP Hole 907A). Review of Palaeobotany and Palynology, 2014, 211, 97-106.	0.8	3
72	Reply to â€˜Challenging the hypothesis of an arctic ocean lake during recent glacial episodesâ€™ by Hillaireâ€Marcel, et al. Journal of Quaternary Science, 2022, 37, 568-571.	1.1	3

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73	A revised core-seismic integration in the Molloy Basin (ODP Site 909): Implications for the history of ice rafting and ocean circulation in the Atlantic-Arctic gateway. Global and Planetary Change, 2022, 215, 103876.	1.6	3
74	Palynology, biostratigraphy, and paleoceanography of the Plio-Pleistocene at Ocean Drilling Program Site 887, Gulf of Alaska. Palaeogeography, Palaeoclimatology, Palaeoecology, 2020, 546, 109605.	1.0	1
75	Dinoflagellates. , 2015, , 1-7.		1
76	Dinoflagellates. Encyclopedia of Earth Sciences Series, 2016, , 189-193.	0.1	0