

# Manfred Mudelsee

## List of Publications by Year in descending order

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Version: 2024-02-01

95  
papers

10,762  
citations

50276

46  
h-index

53230

85  
g-index

121  
all docs

121  
docs citations

121  
times ranked

9514  
citing authors

#	ARTICLE	IF	CITATIONS
1	Robust periodic signals in proxy records with chronological uncertainty and variable temporal resolution. <i>Quaternary Science Reviews</i> , 2022, 276, 107294.	3.0	3
2	The multifaceted history of the Walker Circulation during the Plio-Pleistocene. <i>Quaternary Science Reviews</i> , 2022, 286, 107529.	3.0	8
3	Muted multidecadal climate variability in central Europe during cold stadial periods. <i>Nature Geoscience</i> , 2021, 14, 651-658.	12.9	18
4	Northern Hemisphere Glaciation, African climate and human evolution. <i>Quaternary Science Reviews</i> , 2021, 268, 107095.	3.0	22
5	Weather control in radon flux time series from Schleswig-Holstein, Germany. <i>GEM - International Journal on Geomathematics</i> , 2020, 11, 1.	1.6	2
6	Inter-hemispheric synchronicity of Holocene precipitation anomalies controlled by Earth's latitudinal insolation gradients. <i>Nature Communications</i> , 2020, 11, 5447.	12.8	22
7	Floods and Droughts. , 2020, , 50-67.		0
8	Heatwaves and Cold Spells. , 2020, , 68-102.		0
9	Hurricanes and Other Storms. , 2020, , 103-134.		0
10	Statistical Modeling of the Early-Stage Impact of a New Traffic Policy in Milan, Italy. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 1088.	2.6	12
11	Tropical Atlantic Cooling and Freshening in the Middle of the Last Interglacial From Coral Proxy Records. <i>Geophysical Research Letters</i> , 2019, 46, 8289-8299.	4.0	3
12	Pacing of Red Sea Deep Water Renewal During the Last Centuries. <i>Geophysical Research Letters</i> , 2019, 46, 4413-4420.	4.0	4
13	The weight of the flood record in flood frequency analysis. <i>Journal of Flood Risk Management</i> , 2019, 12, .	3.3	12
14	Trend analysis of climate time series: A review of methods. <i>Earth-Science Reviews</i> , 2019, 190, 310-322.	9.1	190
15	Interpreting historical, botanical, and geological evidence to aid preparations for future floods. <i>Wiley Interdisciplinary Reviews: Water</i> , 2019, 6, e1318.	6.5	77
16	BINCOR: An R package for Estimating the Correlation between Two Unevenly Spaced Time Series. <i>R Journal</i> , 2019, 11, 170.	1.8	16
17	Coherency of late Holocene European speleothem $\delta^{18}O$ records linked to North Atlantic Ocean circulation. <i>Climate Dynamics</i> , 2017, 49, 595-618.	3.8	39
18	Optimal heavy tail estimation – Part 1: Order selection. <i>Nonlinear Processes in Geophysics</i> , 2017, 24, 737-744.	1.3	31

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19	Exkurs: Unsicherheiten bei der Analyse und Attribution von Hochwasserereignissen. , 2017, , 103-109.		1
20	REDFIT-X: Cross-spectral analysis of unevenly spaced paleoclimate time series. Computers and Geosciences, 2016, 91, 11-18.	4.2	38
21	Refined modeling and <sup>14</sup> C plateau tuning reveal consistent patterns of glacial and deglacial <sup>14</sup> C reservoir ages of surface waters in low-latitude Atlantic. Paleoceanography, 2016, 31, 1030-1040.	3.0	18
22	Southern Hemisphere control on Australian monsoon variability during the late deglaciation and Holocene. Nature Communications, 2015, 6, 5916.	12.8	75
23	Trends and oscillations in the Indian summer monsoon rainfall over the last two millennia. Nature Communications, 2015, 6, 6309.	12.8	177
24	Planktic and Benthic <sup>14</sup> C Reservoir Ages for Three Ocean Basins, Calibrated by a Suite of <sup>14</sup> C Plateaus in the Glacial-to-Deglacial Suigetsu Atmospheric <sup>14</sup> C Record. Radiocarbon, 2015, 57, 129-151.	1.8	58
25	Intensification of the meridional temperature gradient in the Great Barrier Reef following the Last Glacial Maximum. Nature Communications, 2014, 5, 4102.	12.8	72
26	More accurate, calibrated bootstrap confidence intervals for estimating the correlation between two time series. Mathematical Geosciences, 2014, 46, 411-427.	2.4	38
27	Climate variability features of the last interglacial in the East Antarctic EPICA Dome C ice core. Geophysical Research Letters, 2014, 41, 4004-4012.	4.0	23
28	Climate Time Series Analysis. Atmospheric and Oceanographic Sciences Library, 2014, , .	0.1	133
29	Cenozoic climate changes: A review based on time series analysis of marine benthic <sup>18</sup> O records. Reviews of Geophysics, 2014, 52, 333-374.	23.0	120
30	Bootstrap Confidence Intervals. Atmospheric and Oceanographic Sciences Library, 2014, , 61-104.	0.1	7
31	On the low-frequency component of the ENSO-Indian monsoon relationship: a paired proxy perspective. Climate of the Past, 2014, 10, 733-744.	3.4	15
32	Regression I. Atmospheric and Oceanographic Sciences Library, 2014, , 107-167.	0.1	0
33	Persistence Models. Atmospheric and Oceanographic Sciences Library, 2014, , 31-60.	0.1	0
34	Extreme Value Time Series. Atmospheric and Oceanographic Sciences Library, 2014, , 217-267.	0.1	2
35	Regression II. Atmospheric and Oceanographic Sciences Library, 2014, , 321-359.	0.1	0
36	Forecasting the underlying potential governing the time series of a dynamical system. Physica A: Statistical Mechanics and Its Applications, 2013, 392, 3891-3902.	2.6	16

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37	Discussion of "An analysis of global warming in the Alpine region based on nonlinear nonstationary time series models" by F. Battaglia and M. K. Protopapas. <i>Statistical Methods and Applications</i> , 2012, 21, 341-346.	1.2	3
38	Holocene climate variability in north-eastern Italy: potential influence of the NAO and solar activity recorded by speleothem data. <i>Climate of the Past</i> , 2012, 8, 1367-1383.	3.4	93
39	Bunker Cave stalagmites: an archive for central European Holocene climate variability. <i>Climate of the Past</i> , 2012, 8, 1751-1764.	3.4	81
40	Effects of dating errors on nonparametric trend analyses of speleothem time series. <i>Climate of the Past</i> , 2012, 8, 1637-1648.	3.4	18
41	A proxy record of winter temperatures since 1836 from ice freeze-up/breakup in lake NÄsijÄrvi, Finland. <i>Climate Dynamics</i> , 2012, 38, 1413-1420.	3.8	13
42	The leading mode of Indian Summer Monsoon precipitation variability during the last millennium. <i>Geophysical Research Letters</i> , 2011, 38, .	4.0	209
43	A global context for megadroughts in monsoon Asia during the past millennium. <i>Quaternary Science Reviews</i> , 2011, 30, 47-62.	3.0	176
44	Reconstructed streamflow for Citarum River, Java, Indonesia: linkages to tropical climate dynamics. <i>Climate Dynamics</i> , 2011, 36, 451-462.	3.8	56
45	Aridity changes in the Temperate-Mediterranean transition of the Andes since ad 1346 reconstructed from tree-rings. <i>Climate Dynamics</i> , 2011, 36, 1505-1521.	3.8	83
46	The Bootstrap in Climate Risk Analysis. , 2011, , 44-58.		10
47	Limitations of red noise in analysing Dansgaard-Oeschger events. <i>Climate of the Past</i> , 2010, 6, 85-92.	3.4	14
48	Abrupt change of Antarctic moisture origin at the end of Termination II. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 12091-12094.	7.1	71
49	Bootstrap Confidence Intervals. <i>Atmospheric and Oceanographic Sciences Library</i> , 2010, , 65-110.	0.1	1
50	Persistence Models. <i>Atmospheric and Oceanographic Sciences Library</i> , 2010, , 33-64.	0.1	0
51	Regression I. <i>Atmospheric and Oceanographic Sciences Library</i> , 2010, , 113-176.	0.1	0
52	Extreme Value Time Series. <i>Atmospheric and Oceanographic Sciences Library</i> , 2010, , 229-282.	0.1	0
53	Persistent multidecadal power of the Indian Summer Monsoon. <i>Earth and Planetary Science Letters</i> , 2010, 290, 166-172.	4.4	144
54	Climate Time Series Analysis. <i>Atmospheric and Oceanographic Sciences Library</i> , 2010, , .	0.1	135

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55	Climate spectrum estimation in the presence of timescale errors. <i>Nonlinear Processes in Geophysics</i> , 2009, 16, 43-56.	1.3	42
56	Trends in extremes of temperature, dew point, and precipitation from long instrumental series from central Europe. <i>Theoretical and Applied Climatology</i> , 2009, 98, 187-195.	2.8	38
57	Heterogeneous response of circumboreal wildfire risk to climate change since the early 1900s. <i>Global Change Biology</i> , 2009, 15, 2751-2769.	9.5	102
58	Trends, rhythms and events in Plio-Pleistocene African climate. <i>Quaternary Science Reviews</i> , 2009, 28, 399-411.	3.0	289
59	Timing and climatic impact of Greenland interstadials recorded in stalagmites from northern Turkey. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	379
60	Recent intensification of tropical climate variability in the Indian Ocean. <i>Nature Geoscience</i> , 2008, 1, 849-853.	12.9	246
61	Evidence for a widespread climatic anomaly at around 9.2 ka before present. <i>Paleoceanography</i> , 2008, 23, .	3.0	145
62	A 1,000-year, annually-resolved record of hurricane activity from Boston, Massachusetts. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	49
63	PAST AND FUTURE CHANGES IN CANADIAN BOREAL WILDFIRE ACTIVITY. , 2008, 18, 391-406.		101
64	The Southern Hemisphere at glacial terminations: insights from the Dome C ice core. <i>Climate of the Past</i> , 2008, 4, 345-356.	3.4	57
65	Holocene ITCZ and Indian monsoon dynamics recorded in stalagmites from Oman and Yemen (Socotra). <i>Quaternary Science Reviews</i> , 2007, 26, 170-188.	3.0	866
66	East African soil erosion recorded in a 300 year old coral colony from Kenya. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	108
67	Ice core records as sea ice proxies: An evaluation from the Weddell Sea region of Antarctica. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	59
68	Long memory of rivers from spatial aggregation. <i>Water Resources Research</i> , 2007, 43, .	4.2	98
69	Quantifying effects in two-sample environmental experiments using bootstrap confidence intervals. <i>Environmental Modelling and Software</i> , 2007, 22, 84-96.	4.5	35
70	Trends in flood risk of the River Werra (Germany) over the past 500 years / Tendances du risque d'inondation dans la vallée de la rivière Werra (Allemagne) durant les 500 dernières années. <i>Hydrological Sciences Journal</i> , 2006, 51, 818-833.	2.6	73
71	A 229-year dendroclimatic-inferred record of forest fire activity for the Boreal Shield of Canada. <i>International Journal of Wildland Fire</i> , 2006, 15, 375.	2.4	62
72	CLIM-X-DETECT: A Fortran 90 program for robust detection of extremes against a time-dependent background in climate records. <i>Computers and Geosciences</i> , 2006, 32, 141-144.	4.2	21

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73	Slow dynamics of the Northern Hemisphere glaciation. <i>Paleoceanography</i> , 2005, 20, n/a-n/a.	3.0	272
74	Timing and progression of the Last Interglacial derived from a high alpine stalagmite. <i>Geophysical Research Letters</i> , 2004, 31, n/a-n/a.	4.0	46
75	Extreme floods in central Europe over the past 500 years: Role of cyclone pathway "Zugstrasse". <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	210
76	Palaeoclimatic interpretation of high-resolution oxygen isotope profiles derived from annually laminated speleothems from Southern Oman. <i>Quaternary Science Reviews</i> , 2004, 23, 935-945.	3.0	240
77	Holocene Records of Rainfall Variation and Associated ITCZ Migration from Stalagmites from Northern and Southern Oman. <i>Advances in Global Change Research</i> , 2004, , 259-287.	1.6	3
78	Estimating Pearson's Correlation Coefficient with Bootstrap Confidence Interval from Serially Dependent Time Series. <i>Mathematical Geosciences</i> , 2003, 35, 651-665.	0.9	165
79	No upward trends in the occurrence of extreme floods in central Europe. <i>Nature</i> , 2003, 425, 166-169.	27.8	374
80	Sub-Milankovitch climatic cycles in Holocene stalagmites from Sauerland, Germany. <i>Earth and Planetary Science Letters</i> , 2003, 216, 539-547.	4.4	65
81	Holocene Forcing of the Indian Monsoon Recorded in a Stalagmite from Southern Oman. <i>Science</i> , 2003, 300, 1737-1739.	12.6	1,409
82	A 780-year annually resolved record of Indian Ocean monsoon precipitation from a speleothem from south Oman. <i>Journal of Geophysical Research</i> , 2002, 107, ACL 9-1.	3.3	173
83	TAUEST: a computer program for estimating persistence in unevenly spaced weather/climate time series. <i>Computers and Geosciences</i> , 2002, 28, 69-72.	4.2	92
84	REDFIT: estimating red-noise spectra directly from unevenly spaced paleoclimatic time series. <i>Computers and Geosciences</i> , 2002, 28, 421-426.	4.2	988
85	The phase relations among atmospheric CO <sub>2</sub> content, temperature and global ice volume over the past 420 ka. <i>Quaternary Science Reviews</i> , 2001, 20, 583-589.	3.0	73
86	Note on the bias in the estimation of the serial correlation coefficient of AR(1) processes. <i>Statistical Papers</i> , 2001, 42, 517-527.	1.2	19
87	Strong coherence between solar variability and the monsoon in Oman between 9 and 6 kyr ago. <i>Nature</i> , 2001, 411, 290-293.	27.8	690
88	Redundancies in the Earth's climatological time series. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2000, 275, 407-414.	2.1	26
89	Ramp function regression: a tool for quantifying climate transitions. <i>Computers and Geosciences</i> , 2000, 26, 293-307.	4.2	141
90	The Mid-Pleistocene climate transition: onset of 100 ka cycle lags ice volume build-up by 280 ka. <i>Earth and Planetary Science Letters</i> , 1997, 151, 117-123.	4.4	347

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91	Exploring the structure of the mid-Pleistocene revolution with advanced methods of time-series analysis. <i>Geologische Rundschau: Zeitschrift Fur Allgemeine Geologie</i> , 1997, 86, 499-511.	1.3	129
92	Plio-/Pleistocene climate modeling based on oxygen isotope time series from deep-sea sediment cores: The Grassberger-Procaccia algorithm and chaotic climate systems. <i>Mathematical Geosciences</i> , 1994, 26, 799-815.	0.9	29
93	Dose-response and thermal behaviour of the esr signal at $g = 2.0006$ in carbonates. <i>Quaternary Science Reviews</i> , 1992, 11, 173-179.	3.0	46
94	ESR dating of the quaternary deep-sea sediment core RC17-177. <i>Quaternary Science Reviews</i> , 1992, 11, 181-189.	3.0	23
95	General properties of the paramagnetic centre at $g = 2.0006$ in carbonates. <i>Quaternary Science Reviews</i> , 1992, 11, 165-171.	3.0	61