Manfred Mudelsee

List of Publications by Year
in descending order

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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	Holocene Forcing of the Indian Monsoon Recorded in a Stalagmite from Southern Oman. Science, 2003, 300, 1737-1739.	12.6	1,409
2	REDFIT: estimating red-noise spectra directly from unevenly spaced paleoclimatic time series. Computers and Geosciences, 2002, 28, 421-426.	4.2	988
3	Holocene ITCZ and Indian monsoon dynamics recorded in stalagmites from Oman and Yemen (Socotra). Quaternary Science Reviews, 2007, 26, 170-188.	3.0	866
4	Strong coherence between solar variability and the monsoon in Oman between 9 and 6â€‰kyr ago. Nature, 2001, 411, 290-293.	27.8	690
5	Timing and climatic impact of Greenland interstadials recorded in stalagmites from northern Turkey. Geophysical Research Letters, 2009, 36, .	4.0	379
6	No upward trends in the occurrence of extreme floods in central Europe. Nature, 2003, 425, 166-169.	27.8	374
7	The Mid-Pleistocene climate transition: onset of 100 ka cycle lags ice volume build-up by 280 ka. Earth and Planetary Science Letters, 1997, 151, 117-123.	4.4	347
8	Trends, rhythms and events in Plio-Pleistocene African climate. Quaternary Science Reviews, 2009, 28, 399-411.	3.0	289
9	Slow dynamics of the Northern Hemisphere glaciation. Paleoceanography, 2005, 20, n/a-n/a.	3.0	272
10	Recent intensification of tropical climate variability in the Indian Ocean. Nature Geoscience, 2008, 1, 849-853.	12.9	246
11	Palaeoclimatic interpretation of high-resolution oxygen isotope profiles derived from annually laminated speleothems from Southern Oman. Quaternary Science Reviews, 2004, 23, 935-945.	3.0	240
12	Extreme floods in central Europe over the past 500 years: Role of cyclone pathway â€œZugstrasse Vbâ€• Journal of Geophysical Research, 2004, 109, .	3.3	210
13	The leading mode of Indian Summer Monsoon precipitation variability during the last millennium. Geophysical Research Letters, 2011, 38, .	4.0	209
14	Trend analysis of climate time series: A review of methods. Earth-Science Reviews, 2019, 190, 310-322.	9.1	190
15	Trends and oscillations in the Indian summer monsoon rainfall over the last two millennia. Nature Communications, 2015, 6, 6309.	12.8	177
16	A global context for megadroughts in monsoon Asia during the past millennium. Quaternary Science Reviews, 2011, 30, 47-62.	3.0	176
17	A 780-year annually resolved record of Indian Ocean monsoon precipitation from a speleothem from south Oman. Journal of Geophysical Research, 2002, 107, ACL 9-1.	3.3	173
18	Estimating Pearson's Correlation Coefficient with Bootstrap Confidence Interval from Serially Dependent Time Series. Mathematical Geosciences, 2003, 35, 651-665.	0.9	165

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19	Evidence for a widespread climatic anomaly at around 9.2 ka before present. Paleoceanography, 2008, 23, .	3.0	145
20	Persistent multidecadal power of the Indian Summer Monsoon. Earth and Planetary Science Letters, 2010, 290, 166-172.	4.4	144
21	Ramp function regression: a tool for quantifying climate transitions. Computers and Geosciences, 2000, 26, 293-307.	4.2	141
22	Climate Time Series Analysis. Atmospheric and Oceanographic Sciences Library, 2010, , .	0.1	135
23	Climate Time Series Analysis. Atmospheric and Oceanographic Sciences Library, 2014, , .	0.1	133
24	Exploring the structure of the mid-Pleistocene revolution with advanced methods of time-series analysis. Geologische Rundschau: Zeitschrift Fur Allgemeine Geologie, 1997, 86, 499-511.	1.3	129
25	Cenozoic climate changes: A review based on time series analysis of marine benthic Î´ ¹⁸ O records. Reviews of Geophysics, 2014, 52, 333-374.	23.0	120
26	East African soil erosion recorded in a 300 year old coral colony from Kenya. Geophysical Research Letters, 2007, 34, .	4.0	108
27	Heterogeneous response of circumboreal wildfire risk to climate change since the early 1900s. Global Change Biology, 2009, 15, 2751-2769.	9.5	102
28	PAST AND FUTURE CHANGES IN CANADIAN BOREAL WILDFIRE ACTIVITY. , 2008, 18, 391-406.		101
29	Long memory of rivers from spatial aggregation. Water Resources Research, 2007, 43, .	4.2	98
30	Holocene climate variability in north-eastern Italy: potential influence of the NAO and solar activity recorded by speleothem data. Climate of the Past, 2012, 8, 1367-1383.	3.4	93
31	TAUEST: a computer program for estimating persistence in unevenly spaced weather/climate time series. Computers and Geosciences, 2002, 28, 69-72.	4.2	92
32	Aridity changes in the Temperate-Mediterranean transition of the Andes since ad 1346 reconstructed from tree-rings. Climate Dynamics, 2011, 36, 1505-1521.	3.8	83
33	Bunker Cave stalagmites: an archive for central European Holocene climate variability. Climate of the Past, 2012, 8, 1751-1764.	3.4	81
34	Interpreting historical, botanical, and geological evidence to aid preparations for future floods. Wiley Interdisciplinary Reviews: Water, 2019, 6, e1318.	6.5	77
35	Southern Hemisphere control on Australian monsoon variability during the late deglaciation and Holocene. Nature Communications, 2015, 6, 5916.	12.8	75
36	The phase relations among atmospheric CO2 content, temperature and global ice volume over the past 420 ka. Quaternary Science Reviews, 2001, 20, 583-589.	3.0	73

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37	Trends in flood risk of the River Werra (Germany) over the past 500 years / Tendances du risque d'inondation dans la vallÃ©e de la riviÃ¨re Werra (Allemagne) durant les 500 derniÃ¨res annÃ©es. Hydrological Sciences Journal, 2006, 51, 818-833.	2.6	73
38	Intensification of the meridional temperature gradient in the Great Barrier Reef following the Last Glacial Maximum. Nature Communications, 2014, 5, 4102.	12.8	72
39	Abrupt change of Antarctic moisture origin at the end of Termination II. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 12091-12094.	7.1	71
40	Sub-Milankovitch climatic cycles in Holocene stalagmites from Sauerland, Germany. Earth and Planetary Science Letters, 2003, 216, 539-547.	4.4	65
41	A 229-year dendroclimatic-inferred record of forest fire activity for the Boreal Shield of Canada. International Journal of Wildland Fire, 2006, 15, 375.	2.4	62
42	General properties of the paramagnetic centre at g = 2.0006 in carbonates. Quaternary Science Reviews, 1992, 11, 165-171.	3.0	61
43	Ice core records as sea ice proxies: An evaluation from the Weddell Sea region of Antarctica. Journal of Geophysical Research, 2007, 112, .	3.3	59
44	Planktic and Benthic¹⁴C Reservoir Ages for Three Ocean Basins, Calibrated by a Suite of¹⁴C Plateaus in the Glacial-to-Deglacial Suigetsu Atmospheric¹⁴C Record. Radiocarbon, 2015, 57, 129-151.	1.8	58
45	The Southern Hemisphere at glacial terminations: insights from the Dome C ice core. Climate of the Past, 2008, 4, 345-356.	3.4	57
46	Reconstructed streamflow for Citarum River, Java, Indonesia: linkages to tropical climate dynamics. Climate Dynamics, 2011, 36, 451-462.	3.8	56
47	A 1,000â€year, annuallyâ€resolved record of hurricane activity from Boston, Massachusetts. Geophysical Research Letters, 2008, 35, .	4.0	49
48	Dose-response and thermal behaviour of the esr signal at g = 2.0006 in carbonates. Quaternary Science Reviews, 1992, 11, 173-179.	3.0	46
49	Timing and progression of the Last Interglacial derived from a high alpine stalagmite. Geophysical Research Letters, 2004, 31, n/a-n/a.	4.0	46
50	Climate spectrum estimation in the presence of timescale errors. Nonlinear Processes in Geophysics, 2009, 16, 43-56.	1.3	42
51	Coherency of late Holocene European speleothem Î´18O records linked to North Atlantic Ocean circulation. Climate Dynamics, 2017, 49, 595-618.	3.8	39
52	Trends in extremes of temperature, dew point, and precipitation from long instrumental series from central Europe. Theoretical and Applied Climatology, 2009, 98, 187-195.	2.8	38
53	More accurate, calibrated bootstrap confidence intervals for estimating the correlation between two time series. Mathematical Geosciences, 2014, 46, 411-427.	2.4	38
54	REDFIT-X: Cross-spectral analysis of unevenly spaced paleoclimate time series. Computers and Geosciences, 2016, 91, 11-18.	4.2	38

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55	Quantifying effects in two-sample environmental experiments using bootstrap confidence intervals. Environmental Modelling and Software, 2007, 22, 84-96.	4.5	35
56	Optimal heavy tail estimation â€“ Part 1: Order selection. Nonlinear Processes in Geophysics, 2017, 24, 737-744.	1.3	31
57	Plio-/Pleistocene climate modeling based on oxygen isotope time series from deep-sea sediment cores: The Grassberger-Procaccia algorithm and chaotic climate systems. Mathematical Geosciences, 1994, 26, 799-815.	0.9	29
58	Redundancies in the Earth's climatological time series. Physics Letters, Section A: General, Atomic and Solid State Physics, 2000, 275, 407-414.	2.1	26
59	ESR dating of the quaternary deep-sea sediment core RC17-177. Quaternary Science Reviews, 1992, 11, 181-189.	3.0	23
60	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
61	Inter-hemispheric synchroneity of Holocene precipitation anomalies controlled by Earthâ€™s latitudinal insolation gradients. Nature Communications, 2020, 11, 5447.	12.8	22
62	Northern Hemisphere Glaciation, African climate and human evolution. Quaternary Science Reviews, 2021, 268, 107095.	3.0	22
63	CLIM-X-DETECT: A Fortran 90 program for robust detection of extremes against a time-dependent background in climate records. Computers and Geosciences, 2006, 32, 141-144.	4.2	21
64	Note on the bias in the estimation of the serial correlation coefficient of AR(1) processes. Statistical Papers, 2001, 42, 517-527.	1.2	19
65	Effects of dating errors on nonparametric trend analyses of speleothem time series. Climate of the Past, 2012, 8, 1637-1648.	3.4	18
66	Refined modeling and ¹⁴C plateau tuning reveal consistent patterns of glacial and deglacial ¹⁴C reservoir ages of surface waters in lowâ€latitude Atlantic. Paleoceanography, 2016, 31, 1030-1040.	3.0	18
67	Muted multidecadal climate variability in central Europe during cold stadial periods. Nature Geoscience, 2021, 14, 651-658.	12.9	18
68	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
69	BINCOR: An R package for Estimating the Correlation between Two Unevenly Spaced Time Series. R Journal, 2019, 11, 170.	1.8	16
70	On the low-frequency component of the ENSOâ€“Indian monsoon relationship: a paired proxy perspective. Climate of the Past, 2014, 10, 733-744.	3.4	15
71	Limitations of red noise in analysing Dansgaard-Oeschger events. Climate of the Past, 2010, 6, 85-92.	3.4	14
72	A proxy record of winter temperatures since 1836 from ice freeze-up/breakup in lake NÃsijÃrvi, Finland. Climate Dynamics, 2012, 38, 1413-1420.	3.8	13

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73	The weight of the floodâ€ofâ€record in flood frequency analysis. Journal of Flood Risk Management, 2019, 12, .	3.3	12
74	Statistical Modeling of the Early-Stage Impact of a New Traffic Policy in Milan, Italy. International Journal of Environmental Research and Public Health, 2020, 17, 1088.	2.6	12
75	The Bootstrap in Climate Risk Analysis. , 2011, , 44-58.		10
76	The multifaceted history of the Walker Circulation during the Plio-Pleistocene. Quaternary Science Reviews, 2022, 286, 107529.	3.0	8
77	Bootstrap Confidence Intervals. Atmospheric and Oceanographic Sciences Library, 2014, , 61-104.	0.1	7
78	Pacing of Red Sea Deep Water Renewal During the Last Centuries. Geophysical Research Letters, 2019, 46, 4413-4420.	4.0	4
79	Holocene Records of Rainfall Variation and Associated ITCZ Migration from Stalagmites from Northern and Southern Oman. Advances in Global Change Research, 2004, , 259-287.	1.6	3
80	Discussion of â€œAn analysis of global warming in the Alpine region based on nonlinear nonstationary time series modelsâ€•by F. Battaglia and M. K. Protopapas. Statistical Methods and Applications, 2012, 21, 341-346.	1.2	3
81	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
82	Robust periodic signals in proxy records with chronological uncertainty and variable temporal resolution. Quaternary Science Reviews, 2022, 276, 107294.	3.0	3
83	Weather control in radon flux time series from Schleswig-Holstein, Germany. GEM - International Journal on Geomathematics, 2020, 11, 1.	1.6	2
84	Extreme Value Time Series. Atmospheric and Oceanographic Sciences Library, 2014, , 217-267.	0.1	2
85	Bootstrap Confidence Intervals. Atmospheric and Oceanographic Sciences Library, 2010, , 65-110.	0.1	1
86	Exkurs: Unsicherheiten bei der Analyse und Attribution von Hochwasserereignissen. , 2017, , 103-109.		1
87	Persistence Models. Atmospheric and Oceanographic Sciences Library, 2010, , 33-64.	0.1	0
88	Regression I. Atmospheric and Oceanographic Sciences Library, 2010, , 113-176.	0.1	0
89	Extreme Value Time Series. Atmospheric and Oceanographic Sciences Library, 2010, , 229-282.	0.1	0
90	Floods and Droughts. , 2020, , 50-67.		0

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91	Heatwaves and Cold Spells. , 2020, , 68-102.		0
92	Hurricanes and Other Storms. , 2020, , 103-134.		0
93	Regression I. Atmospheric and Oceanographic Sciences Library, 2014, , 107-167.	0.1	0
94	Persistence Models. Atmospheric and Oceanographic Sciences Library, 2014, , 31-60.	0.1	0
95	Regression II. Atmospheric and Oceanographic Sciences Library, 2014, , 321-359.	0.1	0