

# Michael Schulz

## List of Publications by Citations

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131  
papers

7,471  
citations

41  
h-index

85  
g-index

156  
ext. papers

8,333  
ext. citations

6.3  
avg, IF

6.07  
L-index

#	Paper	IF	Citations
131	REDFIT: estimating red-noise spectra directly from unevenly spaced paleoclimatic time series. <i>Computers and Geosciences</i> , <b>2002</b> , 28, 421-426	4.5	819
130	Dust sources and deposition during the last glacial maximum and current climate: A comparison of model results with paleodata from ice cores and marine sediments. <i>Journal of Geophysical Research</i> , <b>1999</b> , 104, 15895-15916		513
129	High-resolution palaeoclimatology of the last millennium: a review of current status and future prospects. <i>Holocene</i> , <b>2009</b> , 19, 3-49	2.6	499
128	Spectrum: spectral analysis of unevenly spaced paleoclimatic time series. <i>Computers and Geosciences</i> , <b>1997</b> , 23, 929-945	4.5	348
127	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> , <b>1997</b> , 151, 117-123	5.3	310
126	Impacts of orbital forcing and atmospheric carbon dioxide on Miocene ice-sheet expansion. <i>Nature</i> , <b>2005</b> , 438, 483-7	50.4	248
125	Interglacials of the last 800,000 years. <i>Reviews of Geophysics</i> , <b>2016</b> , 54, 162-219	23.1	243
124	340,000-year centennial-scale marine record of Southern Hemisphere climatic oscillation. <i>Science</i> , <b>2003</b> , 301, 948-52	33.3	238
123	Orbitally-paced climate evolution during the middle Miocene Monterey carbon-isotope excursion. <i>Earth and Planetary Science Letters</i> , <b>2007</b> , 261, 534-550	5.3	228
122	Increase in African dust flux at the onset of commercial agriculture in the Sahel region. <i>Nature</i> , <b>2010</b> , 466, 226-8	50.4	206
121	Sahel megadroughts triggered by glacial slowdowns of Atlantic meridional overturning. <i>Paleoceanography</i> , <b>2008</b> , 23, n/a-n/a		178
120	Centennial-to-millennial-scale periodicities of Holocene climate and sediment injections off the western Barents shelf, 75°N. <i>Boreas</i> , <b>2003</b> , 32, 447-461	2.4	178
119	Evidence for solar forcing of sea-surface temperature on the North Icelandic Shelf during the late Holocene. <i>Geology</i> , <b>2005</b> , 33, 73	5	130
118	Trends in coastal upwelling intensity during the late 20th century. <i>Ocean Science</i> , <b>2010</b> , 6, 815-823	4	111
117	On the 1470-year pacing of Dansgaard-Oeschger warm events. <i>Paleoceanography</i> , <b>2002</b> , 17, 4-1-4-9		111
116	Orbital forcing of Cretaceous river discharge in tropical Africa and ocean response. <i>Nature</i> , <b>2005</b> , 437, 241-4	50.4	109
115	Fundamental Modes and Abrupt Changes in North Atlantic Circulation and Climate over the last 60 ky [Concepts, Reconstruction and Numerical Modeling <b>2001</b> , 365-410		106

114	Early Pliocene increase in thermohaline overturning: A precondition for the development of the modern equatorial Pacific cold tongue. <i>Paleoceanography</i> , <b>2010</b> , 25,		104
113	Glacial/Interglacial variability in Atlantic meridional overturning circulation and thermocline adjustments in the tropical North Atlantic. <i>Earth and Planetary Science Letters</i> , <b>2010</b> , 300, 407-414	5.3	102
112	Coherent Resonant Millennial-Scale Climate Oscillations Triggered by Massive Meltwater Pulses. <i>Journal of Climate</i> , <b>2003</b> , 16, 2569-2585	4.4	101
111	Amplitude variations of 1470-year climate oscillations during the last 100,000 years linked to fluctuations of continental ice mass. <i>Geophysical Research Letters</i> , <b>1999</b> , 26, 3385-3388	4.9	94
110	Orbital- and millennial-scale changes in the hydrologic cycle and vegetation in the western African Sahel: insights from individual plant wax $\delta D$ and $\delta^{13}C$ . <i>Quaternary Science Reviews</i> , <b>2010</b> , 29, 2996-3005	3.9	89
109	Interhemispheric symmetry of the tropical African rainbelt over the past 23,000 years. <i>Nature Geoscience</i> , <b>2011</b> , 4, 42-45	18.3	87
108	ENSO variability and teleconnections during glacial climates. <i>Quaternary Science Reviews</i> , <b>2010</b> , 29, 86-100	3.9	82
107	Changes in Caribbean surface hydrography during the Pliocene shoaling of the Central American Seaway. <i>Paleoceanography</i> , <b>2006</b> , 21,		77
106	Last interglacial temperature evolution in a model inter-comparison. <i>Climate of the Past</i> , <b>2013</b> , 9, 605-619	3.9	72
105	Factors controlling the depth habitat of planktonic foraminifera in the subtropical eastern North Atlantic. <i>Biogeosciences</i> , <b>2017</b> , 14, 827-859	4.6	71
104	Synchronous and proportional deglacial changes in Atlantic meridional overturning and northeast Brazilian precipitation. <i>Paleoceanography</i> , <b>2017</b> , 32, 622-633		70
103	Sediment-Color Record from the Northeast Atlantic Reveals Patterns of Millennial-Scale Climate Variability during the Past 500,000 Years. <i>Quaternary Research</i> , <b>2002</b> , 57, 49-57	1.9	62
102	Interhemispheric space-time attributes of the Dansgaard-Oeschger oscillations between 100 and 0ka. <i>Quaternary Science Reviews</i> , <b>2002</b> , 21, 1213-1228	3.9	57
101	Holocene evolution of the Southern Hemisphere westerly winds in transient simulations with global climate models. <i>Climate of the Past</i> , <b>2012</b> , 8, 391-402	3.9	55
100	Predicting the global distribution of planktonic foraminifera using a dynamic ecosystem model. <i>Biogeosciences</i> , <b>2008</b> , 5, 891-911	4.6	54
99	Changes in equatorial Pacific thermocline depth in response to Panamanian seaway closure: Insights from a multi-model study. <i>Earth and Planetary Science Letters</i> , <b>2012</b> , 317-318, 76-84	5.3	53
98	Relaxation oscillators in concert: A framework for climate change at millennial timescales during the late Pleistocene. <i>Geophysical Research Letters</i> , <b>2002</b> , 29, 46-1-46-4	4.9	49
97	Pronounced interannual variability in tropical South Pacific temperatures during Heinrich Stadial 1. <i>Nature Communications</i> , <b>2012</b> , 3, 965	17.4	48

96	Low-frequency oscillations of the Atlantic Ocean meridional overturning circulation in a coupled climate model. <i>Climate of the Past</i> , <b>2007</b> , 3, 97-107	3.9	47
95	Translating Milankovitch climate forcing into eustatic fluctuations via thermal deep water expansion: a conceptual link. <i>Terra Nova</i> , <b>1997</b> , 9, 228-231	3	46
94	Modeling planktonic foraminiferal seasonality: Implications for sea-surface temperature reconstructions. <i>Marine Micropaleontology</i> , <b>2009</b> , 72, 1-9	1.7	44
93	Inside story: An X-ray computed tomography method for assessing dissolution in the tests of planktonic foraminifera. <i>Marine Micropaleontology</i> , <b>2010</b> , 77, 58-70	1.7	43
92	Holocene Climate Variability on Centennial-to-Millennial Time Scales: 1. Climate Records from the North-Atlantic Realm <b>2002</b> , 41-54		43
91	Temperature trends during the Present and Last Interglacial periods: a multi-model-data comparison. <i>Quaternary Science Reviews</i> , <b>2014</b> , 99, 224-243	3.9	42
90	North African vegetation-precipitation feedback in early and mid-Holocene climate simulations with CCSM3-DGVM. <i>Climate of the Past</i> , <b>2015</b> , 11, 175-185	3.9	41
89	Modeling variations of marine reservoir ages during the last 45 000 years. <i>Climate of the Past</i> , <b>2008</b> , 4, 125-136	3.9	41
88	Testing the influence of the Central American Seaway on orbitally forced Northern Hemisphere glaciation. <i>Geophysical Research Letters</i> , <b>2005</b> , 32,	4.9	41
87	Antarctic ice-sheet response to atmospheric CO <sub>2</sub> and insolation in the Middle Miocene. <i>Climate of the Past</i> , <b>2009</b> , 5, 633-646	3.9	40
86	Solar-forced shifts of the Southern Hemisphere Westerlies during the Holocene. <i>Climate of the Past</i> , <b>2011</b> , 7, 339-347	3.9	39
85	A coastal upwelling seesaw in the Atlantic Ocean as a result of the closure of the Central American Seaway. <i>Geophysical Research Letters</i> , <b>2004</b> , 31, n/a-n/a	4.9	38
84	The Younger Dryas—an intrinsic feature of late Pleistocene climate change at millennial timescales. <i>Earth and Planetary Science Letters</i> , <b>2004</b> , 222, 741-750	5.3	38
83	Does Antarctic glaciation force migration of the tropical rain belt?. <i>Geology</i> , <b>2010</b> , 38, 783-786	5	37
82	Modeling the seasonal distribution of planktonic foraminifera during the Last Glacial Maximum. <i>Paleoceanography</i> , <b>2009</b> , 24, n/a-n/a		35
81	Response of the Amazon rainforest to late Pleistocene climate variability. <i>Earth and Planetary Science Letters</i> , <b>2017</b> , 479, 50-59	5.3	34
80	Amplification of Holocene multicentennial climate forcing by mode transitions in North Atlantic overturning circulation. <i>Geophysical Research Letters</i> , <b>2007</b> , 34,	4.9	31
79	Instability of the Atlantic overturning circulation during Marine Isotope Stage 3. <i>Geophysical Research Letters</i> , <b>2014</b> , 41, 4285-4293	4.9	30

78	Uplift of Africa as a potential cause for Neogene intensification of the Benguela upwelling system. <i>Nature Geoscience</i> , <b>2014</b> , 7, 741-747	18.3	29
77	Boundary conditions for the Middle Miocene Climate Transition (MMCT v1.0). <i>Geoscientific Model Development</i> , <b>2018</b> , 11, 1607-1626	6.3	29
76	Simulating the sea level imprint on marine oxygen isotope records during the middle Miocene using an ice sheet climate model. <i>Paleoceanography</i> , <b>2010</b> , 25, n/a-n/a		28
75	Extratropical forcing of Sahel aridity during Heinrich stadials. <i>Geophysical Research Letters</i> , <b>2009</b> , 36,	4.9	28
74	The tempo of climate change during Dansgaard-Oeschger interstadials and its potential to affect the manifestation of the 1470-year climate cycle. <i>Geophysical Research Letters</i> , <b>2002</b> , 29, 2-1	4.9	28
73	Millennial- to Orbital-Scale Responses of Western Equatorial Atlantic Thermocline Depth to Changes in the Trade Wind System Since the Last Interglacial. <i>Paleoceanography and Paleoclimatology</i> , <b>2018</b> , 33, 1490-1507	3.3	26
72	Modeling seasonal and vertical habitats of planktonic foraminifera on a global scale. <i>Biogeosciences</i> , <b>2018</b> , 15, 4405-4429	4.6	25
71	Towards a quantitative understanding of millennial-scale Antarctic warming events. <i>Quaternary Science Reviews</i> , <b>2010</b> , 29, 74-85	3.9	25
70	Global and regional sea surface temperature trends during Marine Isotope Stage 11. <i>Climate of the Past</i> , <b>2013</b> , 9, 2231-2252	3.9	24
69	Global prediction of planktic foraminiferal fluxes from hydrographic and productivity data. <i>Biogeosciences</i> , <b>2006</b> , 3, 187-207	4.6	24
68	REDFIT-X: Cross-spectral analysis of unevenly spaced paleoclimate time series. <i>Computers and Geosciences</i> , <b>2016</b> , 91, 11-18	4.5	24
67	Glacial/Interglacial contrast in climate variability at centennial-to-millennial timescales: observations and conceptual model. <i>Quaternary Science Reviews</i> , <b>2004</b> , 23, 2219-2230	3.9	23
66	Solar modulation of North Atlantic central Water formation at multidecadal timescales during the late Holocene. <i>Earth and Planetary Science Letters</i> , <b>2011</b> , 308, 161-171	5.3	22
65	Modeling the oxygen-isotopic composition of the North American Ice Sheet and its effect on the isotopic composition of the ocean during the last glacial cycle. <i>Geophysical Research Letters</i> , <b>2006</b> , 33,	4.9	21
64	Reconciling Blling Warmth with peak deglacial meltwater discharge. <i>Paleoceanography</i> , <b>2000</b> , 15, 537-540		21
63	A model for the potential locations of Triassic evaporite basins driven by paleoclimatic GCM simulations. <i>Global and Planetary Change</i> , <b>1994</b> , 9, 233-249	4.2	21
62	Climate variability features of the last interglacial in the East Antarctic EPICA Dome C ice core. <i>Geophysical Research Letters</i> , <b>2014</b> , 41, 4004-4012	4.9	20
61	Improving temperature estimates derived from Mg/Ca of planktonic foraminifera using X-ray computed tomographyBased dissolution index, XDX. <i>Paleoceanography</i> , <b>2011</b> , 26,		19

60	Centennial-to-millennial-scale periodicities of Holocene climate and sediment injections off the western Barents shelf, 75°N. <i>Boreas</i> , <b>2008</b> , 32, 447-461	2.4	19
59	Ocean temperature response to idealized Gleissberg and de Vries solar cycles in a comprehensive climate model. <i>Geophysical Research Letters</i> , <b>2012</b> , 39, n/a-n/a	4.9	17
58	Spatial fingerprint and magnitude of changes in the Atlantic meridional overturning circulation during marine isotope stage 3. <i>Geophysical Research Letters</i> , <b>2015</b> , 42, 1903-1911	4.9	16
57	Planktonic foraminifera shell fluxes from a weekly resolved sediment trap record in the southwestern Atlantic: Evidence for synchronized reproduction. <i>Marine Micropaleontology</i> , <b>2016</b> , 125, 25-35	1.7	16
56	Reduced North Atlantic Central Water formation in response to early Holocene ice-sheet melting. <i>Geophysical Research Letters</i> , <b>2010</b> , 37, n/a-n/a	4.9	16
55	Modeling the distribution and seasonality of <i>Neogloboquadrina pachyderma</i> in the North Atlantic Ocean during Heinrich Stadial 1. <i>Paleoceanography</i> , <b>2016</b> , 31, 986-1010		15
54	Dependence of slope lapse rate over the Greenland ice sheet on background climate. <i>Journal of Glaciology</i> , <b>2017</b> , 63, 568-572	3.4	15
53	Intra-interglacial climate variability: model simulations of Marine Isotope Stages 1, 5, 11, 13, and 15. <i>Climate of the Past</i> , <b>2016</b> , 12, 677-695	3.9	15
52	Improvement of morphodynamic modeling of tidal channel migration by nudging. <i>Coastal Engineering</i> , <b>2013</b> , 77, 1-13	4.8	14
51	Abrupt cold events in the North Atlantic Ocean in a transient Holocene simulation. <i>Climate of the Past</i> , <b>2018</b> , 14, 1165-1178	3.9	14
50	Effect of preservation state of planktonic foraminifera tests on the decrease in Mg/Ca due to reductive cleaning and on sample loss during cleaning. <i>Chemical Geology</i> , <b>2016</b> , 420, 23-36	4.2	13
49	Consistent CO <sub>2</sub> release by pyrite oxidation on continental shelves prior to glacial terminations. <i>Nature Geoscience</i> , <b>2019</b> , 12, 929-934	18.3	13
48	Inferring moisture transport across Central America: Can modern analogs of climate variability help reconcile paleosalinity records?. <i>Quaternary Science Reviews</i> , <b>2010</b> , 29, 1317-1321	3.9	13
47	Calcification depths of planktonic foraminifera from the southwestern Atlantic derived from oxygen isotope analyses of sediment trap material. <i>Marine Micropaleontology</i> , <b>2017</b> , 136, 37-50	1.7	12
46	Response of precipitation over Greenland and the adjacent ocean to North Pacific warm spells during Dansgaard-Oeschger stadials. <i>Terra Nova</i> , <b>2002</b> , 14, 295-300	3	12
45	Modeling ocean-atmosphere carbon budgets during the Last Glacial Maximum-Heinrich 1 meltwater event-Bölling transition. <i>International Journal of Earth Sciences</i> , <b>2001</b> , 90, 412-425	2.2	12
44	Exploring Late Pleistocene climate variations. <i>Eos</i> , <b>2000</b> , 81, 625	1.5	11
43	Holocene Climate Variability on Centennial-to-Millennial Time Scales: 2. Internal and Forced Oscillations as Possible Causes <b>2002</b> , 55-73		10

42	African dust deposition in Puerto Rico: Analysis of a 20-year rainfall chemistry record and comparison with models. <i>Atmospheric Environment</i> , <b>2019</b> , 216, 116907	5.3	9
41	Transient simulations of the present and the last interglacial climate using the Community Climate System Model version 3: effects of orbital acceleration. <i>Geoscientific Model Development</i> , <b>2016</b> , 9, 3859-3873	6.3	9
40	Impact of solar-induced stratospheric ozone decline on Southern Hemisphere westerlies during the Late Maunder Minimum. <i>Geophysical Research Letters</i> , <b>2012</b> , 39,	4.9	9
39	Response of eastern tropical Atlantic central waters to Atlantic meridional overturning circulation changes during the Last Glacial Maximum and Heinrich Stadial 1. <i>Paleoceanography</i> , <b>2012</b> , 27, n/a-n/a		8
38	Solar-forced shifts of the Southern Hemisphere Westerlies during the late Holocene		8
37	Listening to glaciers. <i>Nature Geoscience</i> , <b>2008</b> , 1, 408-408	18.3	7
36	Assessing the ability of the 14C projection-age method to constrain the circulation of the past in a 3-D ocean model. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2008</b> , 9, n/a-n/a	3.6	7
35	Sensitivity of the ocean-atmosphere carbon cycle to ice-covered and ice-free conditions in the Nordic Seas during the Last Glacial Maximum. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , <b>2004</b> , 207, 127-141	2.9	7
34	Centennial-to-millennial-scale periodicities of Holocene climate and sediment injections off the western Barents shelf, 75°N. <i>Boreas</i> , <b>2003</b> , 32, 447-461	2.4	7
33	Investigating the effects of a summer storm on the North Sea stratification using a regional coupled ocean-atmosphere model. <i>Ocean Dynamics</i> , <b>2017</b> , 67, 211-235	2.3	6
32	Stable water isotopes in the MITgcm. <i>Geoscientific Model Development</i> , <b>2017</b> , 10, 3125-3144	6.3	6
31	Sensitivity of the Greenland Ice Sheet to Interglacial Climate Forcing: MIS 5e Versus MIS 11. <i>Paleoceanography</i> , <b>2017</b> , 32, 1089-1101		6
30	Numerical Simulation of Deep-Sea Sediment Transport Induced by a Dredge Experiment in the Northeastern Pacific Ocean. <i>Frontiers in Marine Science</i> , <b>2021</b> , 8,	4.5	6
29	Influence of topography on tropical African vegetation coverage. <i>Climate Dynamics</i> , <b>2016</b> , 46, 2535-2549	4.2	5
28	Calcite saturation, foraminiferal test mass, and Mg/Ca-based temperatures dissolution corrected using XDXA 150 ka record from the western Indian Ocean. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2014</b> , 15, 781-797	3.6	4
27	Quaternary oceans and climate change: lessons for the future?. <i>International Journal of Earth Sciences</i> , <b>2010</b> , 99, 171-189	2.2	4
26	Evidence of eddy-related deep-ocean current variability in the northeast tropical Pacific Ocean induced by remote gap winds. <i>Biogeosciences</i> , <b>2020</b> , 17, 6527-6544	4.6	4
25	Atmospheric carbon dioxide variations across the middle Miocene climate transition. <i>Climate of the Past</i> , <b>2021</b> , 17, 703-719	3.9	4

24	Spatial analysis of early-warning signals for a North Atlantic climate transition in a coupled GCM. <i>Climate Dynamics</i> , <b>2019</b> , 53, 97-113	4.2	4
23	A Dynamical Reconstruction of the Global Monthly Mean Oxygen Isotopic Composition of Seawater. <i>Journal of Geophysical Research: Oceans</i> , <b>2018</b> , 123, 7206-7219	3.3	4
22	Coupling of a sediment diagenesis model (MEDUSA) and an Earth system model (CESM1.2): a contribution toward enhanced marine biogeochemical modelling and long-term climate simulations. <i>Geoscientific Model Development</i> , <b>2020</b> , 13, 825-840	6.3	3
21	Orbitally Paced Climate Variability During the Middle Miocene: High Resolution Benthic Foraminiferal Stable-Isotope Records From the Tropical Western Pacific. <i>Geophysical Monograph Series</i> , <b>2004</b> , 321-337	1.1	3
20	Global prediction of planktic foraminiferal fluxes from hydrographic and productivity data		3
19	Global and regional sea surface temperature trends during Marine Isotope Stage 11		3
18	Calcification depth of deep-dwelling planktonic foraminifera from the eastern North Atlantic constrained by stable oxygen isotope ratios of shells from stratified plankton tows. <i>Journal of Micropalaeontology</i> , <b>2019</b> , 38, 113-131	2	3
17	Tracing Climate-Variability: The Search for Climate Dynamics on Decadal to Millennial Time Scales <b>2002</b> , 125-148		3
16	Fractal Analyses of Pleistocene Marine Oxygen Isotope Records <b>1994</b> , 377-387		3
15	Past and future impact of the winter North Atlantic Oscillation in the Caspian Sea catchment area. <i>International Journal of Climatology</i> , <b>2020</b> , 40, 2717-2731	3.5	3
14	A forward and inverse transformation program for the Atlas of Lithological-Paleogeographical Maps of the World <i>Computers and Geosciences</i> , <b>1995</b> , 21, 907-911	4.5	2
13	Factors controlling the depth habitat of planktonic foraminifera in the subtropical eastern North Atlantic		2
12	Abrupt cold events in the North Atlantic in a transient Holocene simulation		2
11	Holocene evolution of the Southern Hemisphere westerly winds in transient simulations with global climate models		2
10	Last interglacial temperature evolution a model inter-comparison		2
9	Impacts of Variations in Caspian Sea Surface Area on Catchment-Scale and Large-Scale Climate. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2021</b> , 126, e2020JD034251	4.4	2
8	North African vegetation-precipitation feedback in early and mid-Holocene climate simulations with CCSM3-DGVM		1
7	Intra-interglacial climate variability from Marine Isotope Stage 15 to the Holocene		1



6	Transient simulations of the present and the last interglacial climate using a coupled general circulation model: effects of orbital acceleration		1
5	Water Mass Versus Sea Level Effects on Benthic Foraminiferal Oxygen Isotope Ratios in the Atlantic Ocean During the LGM. <i>Paleoceanography and Paleoclimatology</i> , <b>2019</b> , 34, 98-121	3.3	1
4	A dynamic ocean driven by changes in CO2 and Antarctic ice-sheet in the middle Miocene. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , <b>2021</b> , 579, 110591	2.9	0
3	Detecting Holocene Changes in the Atlantic Meridional Overturning Circulation: Integration of Proxy Data and Climate Simulations. <i>SpringerBriefs in Earth System Sciences</i> , <b>2015</b> , 43-48	1	
2	Simultaneous presence of orbital inclination and eccentricity in proxy climate records from Ocean Drilling Program Site 806: Comment and Reply. <i>Geology</i> , <b>1997</b> , 25, 860	5	
1	Dynamic boreal summer atmospheric circulation response as negative feedback to Greenland melt during the MIS-11 interglacial. <i>Climate of the Past</i> , <b>2022</b> , 18, 775-792	3.9	