

Michael Schulz

List of Publications by Year in descending order

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123
papers

9,129
citations

57758

44
h-index

43889

91
g-index

156
all docs

156
docs citations

156
times ranked

8417
citing authors

#	ARTICLE	IF	CITATIONS
1	REDFIT: estimating red-noise spectra directly from unevenly spaced paleoclimatic time series. <i>Computers and Geosciences</i> , 2002, 28, 421-426.	4.2	988
2	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> , 1999, 104, 15895-15916.	3.3	595
3	High-resolution palaeoclimatology of the last millennium: a review of current status and future prospects. <i>Holocene</i> , 2009, 19, 3-49.	1.7	588
4	Spectrum: spectral analysis of unevenly spaced paleoclimatic time series. <i>Computers and Geosciences</i> , 1997, 23, 929-945.	4.2	410
5	Interglacials of the last 800,000 years. <i>Reviews of Geophysics</i> , 2016, 54, 162-219.	23.0	359
6	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
7	Impacts of orbital forcing and atmospheric carbon dioxide on Miocene ice-sheet expansion. <i>Nature</i> , 2005, 438, 483-487.	27.8	291
8	Orbitally-paced climate evolution during the middle Miocene –Monterey–carbon-isotope excursion. <i>Earth and Planetary Science Letters</i> , 2007, 261, 534-550.	4.4	283
9	340,000-Year Centennial-Scale Marine Record of Southern Hemisphere Climatic Oscillation. <i>Science</i> , 2003, 301, 948-952.	12.6	268
10	Increase in African dust flux at the onset of commercial agriculture in the Sahel region. <i>Nature</i> , 2010, 466, 226-228.	27.8	247
11	Sahel megadroughts triggered by glacial slowdowns of Atlantic meridional overturning. <i>Paleoceanography</i> , 2008, 23, .	3.0	213
12	Centennial-to-millennial-scale periodicities of Holocene climate and sediment injections off the western Barents shelf, 75°N. <i>Boreas</i> , 2003, 32, 447-461.	2.4	192
13	Evidence for solar forcing of sea-surface temperature on the North Icelandic Shelf during the late Holocene. <i>Geology</i> , 2005, 33, 73.	4.4	150
14	On the 1470-year pacing of Dansgaard-Oeschger warm events. <i>Paleoceanography</i> , 2002, 17, 4-14-9.	3.0	147
15	Orbital forcing of Cretaceous river discharge in tropical Africa and ocean response. <i>Nature</i> , 2005, 437, 241-244.	27.8	141
16	Trends in coastal upwelling intensity during the late 20th century. <i>Ocean Science</i> , 2010, 6, 815-823.	3.4	137
17	Early Pliocene increase in thermohaline overturning: A precondition for the development of the modern equatorial Pacific cold tongue. <i>Paleoceanography</i> , 2010, 25, .	3.0	123
18	Fundamental Modes and Abrupt Changes in North Atlantic Circulation and Climate over the last 60 ky – Concepts, Reconstruction and Numerical Modeling. , 2001, , 365-410.		121

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19	Glacial-interglacial variability in Atlantic meridional overturning circulation and thermocline adjustments in the tropical North Atlantic. <i>Earth and Planetary Science Letters</i> , 2010, 300, 407-414.	4.4	116
20	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> , 1999, 26, 3385-3388.	4.0	112
21	Coherent Resonant Millennial-Scale Climate Oscillations Triggered by Massive Meltwater Pulses. <i>Journal of Climate</i> , 2003, 16, 2569-2585.	3.2	110
22	Interhemispheric symmetry of the tropical African rainbelt over the past 23,000 years. <i>Nature Geoscience</i> , 2011, 4, 42-45.	12.9	110
23	Orbital- and millennial-scale changes in the hydrologic cycle and vegetation in the western African Sahel: insights from individual plant wax δD and $\delta^{13}C$. <i>Quaternary Science Reviews</i> , 2010, 29, 2996-3005.	3.0	103
24	Factors controlling the depth habitat of planktonic foraminifera in the subtropical eastern North Atlantic. <i>Biogeosciences</i> , 2017, 14, 827-859.	3.3	103
25	ENSO variability and teleconnections during glacial climates. <i>Quaternary Science Reviews</i> , 2010, 29, 86-100.	3.0	95
26	Synchronous and proportional deglacial changes in Atlantic meridional overturning and northeast Brazilian precipitation. <i>Paleoceanography</i> , 2017, 32, 622-633.	3.0	86
27	Last interglacial temperature evolution – a model inter-comparison. <i>Climate of the Past</i> , 2013, 9, 605-619.	3.4	84
28	Changes in Caribbean surface hydrography during the Pliocene shoaling of the Central American Seaway. <i>Paleoceanography</i> , 2006, 21, .	3.0	81
29	Sediment-Color Record from the Northeast Atlantic Reveals Patterns of Millennial-Scale Climate Variability during the Past 500,000 Years. <i>Quaternary Research</i> , 2002, 57, 49-57.	1.7	75
30	Interhemispheric space-time attributes of the Dansgaard-Oeschger oscillations between 100 and 0ka. <i>Quaternary Science Reviews</i> , 2002, 21, 1213-1228.	3.0	70
31	Predicting the global distribution of planktonic foraminifera using a dynamic ecosystem model. <i>Biogeosciences</i> , 2008, 5, 891-911.	3.3	66
32	Holocene evolution of the Southern Hemisphere westerly winds in transient simulations with global climate models. <i>Climate of the Past</i> , 2012, 8, 391-402.	3.4	65
33	Pronounced interannual variability in tropical South Pacific temperatures during Heinrich Stadial 1. <i>Nature Communications</i> , 2012, 3, 965.	12.8	60
34	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> , 2012, 317-318, 76-84.	4.4	60
35	Inside story: An X-ray computed tomography method for assessing dissolution in the tests of planktonic foraminifera. <i>Marine Micropaleontology</i> , 2010, 77, 58-70.	1.2	58
36	North African vegetation-precipitation feedback in early and mid-Holocene climate simulations with CCSM3-DGVM. <i>Climate of the Past</i> , 2015, 11, 175-185.	3.4	58

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37	Boundary conditions for the Middle Miocene Climate Transition (MMCT v1.0). Geoscientific Model Development, 2018, 11, 1607-1626.	3.6	57
38	Translating Milankovitch climate forcing into eustatic fluctuations via thermal deep water expansion: a conceptual link. Terra Nova, 1997, 9, 228-231.	2.1	56
39	Relaxation oscillators in concert: A framework for climate change at millennial timescales during the late Pleistocene. Geophysical Research Letters, 2002, 29, 46-1-46-4.	4.0	56
40	Low-frequency oscillations of the Atlantic Ocean meridional overturning circulation in a coupled climate model. Climate of the Past, 2007, 3, 97-107.	3.4	52
41	Modeling planktonic foraminiferal seasonality: Implications for sea-surface temperature reconstructions. Marine Micropaleontology, 2009, 72, 1-9.	1.2	51
42	Holocene Climate Variability on Centennial-to-Millennial Time Scales: 1. Climate Records from the North-Atlantic Realm. , 2002, , 41-54.		51
43	A coastal upwelling seesaw in the Atlantic Ocean as a result of the closure of the Central American Seaway. Geophysical Research Letters, 2004, 31, n/a-n/a.	4.0	50
44	Modeling variations of marine reservoir ages during the last 45 000 years. Climate of the Past, 2008, 4, 125-136.	3.4	50
45	Does Antarctic glaciation force migration of the tropical rain belt?. Geology, 2010, 38, 783-786.	4.4	50
46	Response of the Amazon rainforest to late Pleistocene climate variability. Earth and Planetary Science Letters, 2017, 479, 50-59.	4.4	50
47	Antarctic ice-sheet response to atmospheric CO ₂ and insolation in the Middle Miocene. Climate of the Past, 2009, 5, 633-646.	3.4	49
48	Testing the influence of the Central American Seaway on orbitally forced Northern Hemisphere glaciation. Geophysical Research Letters, 2005, 32, .	4.0	48
49	Temperature trends during the Present and Last Interglacial periods – a multi-model-data comparison. Quaternary Science Reviews, 2014, 99, 224-243.	3.0	48
50	The Younger Dryas – an intrinsic feature of late Pleistocene climate change at millennial timescales. Earth and Planetary Science Letters, 2004, 222, 741-750.	4.4	47
51	Solar-forced shifts of the Southern Hemisphere Westerlies during the Holocene. Climate of the Past, 2011, 7, 339-347.	3.4	45
52	Modeling seasonal and vertical habitats of planktonic foraminifera on a global scale. Biogeosciences, 2018, 15, 4405-4429.	3.3	41
53	Modeling the seasonal distribution of planktonic foraminifera during the Last Glacial Maximum. Paleoceanography, 2009, 24, .	3.0	40
54	Global prediction of planktic foraminiferal fluxes from hydrographic and productivity data. Biogeosciences, 2006, 3, 187-207.	3.3	38

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55	REDFIT-X: Cross-spectral analysis of unevenly spaced paleoclimate time series. <i>Computers and Geosciences</i> , 2016, 91, 11-18.	4.2	38
56	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> , 2018, 33, 1490-1507.	2.9	36
57	Centennial- to millennial-scale periodicities of Holocene climate and sediment injections off the western Barents shelf, 75°N. <i>Boreas</i> , 2003, 32, 447-461.	2.4	34
58	Uplift of Africa as a potential cause for Neogene intensification of the Benguela upwelling system. <i>Nature Geoscience</i> , 2014, 7, 741-747.	12.9	34
59	Instability of the Atlantic overturning circulation during Marine Isotope Stage 3. <i>Geophysical Research Letters</i> , 2014, 41, 4285-4293.	4.0	34
60	Amplification of Holocene multicentennial climate forcing by mode transitions in North Atlantic overturning circulation. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	33
61	Simulating the sea level imprint on marine oxygen isotope records during the middle Miocene using an ice sheet-climate model. <i>Paleoceanography</i> , 2010, 25, n/a-n/a.	3.0	33
62	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> , 2002, 29, 2461.	4.0	31
63	Extratropical forcing of Sahel aridity during Heinrich stadials. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	31
64	Towards a quantitative understanding of millennial-scale Antarctic warming events. <i>Quaternary Science Reviews</i> , 2010, 29, 74-85.	3.0	31
65	Reconciling Bølling Warmth with peak deglacial meltwater discharge. <i>Paleoceanography</i> , 2000, 15, 537-540.	3.0	28
66	Glacial- interglacial contrast in climate variability at centennial-to-millennial timescales: observations and conceptual model. <i>Quaternary Science Reviews</i> , 2004, 23, 2219-2230.	3.0	27
67	Improving temperature estimates derived from Mg/Ca of planktonic foraminifera using X-ray computed tomography-based dissolution index, XDX. <i>Paleoceanography</i> , 2011, 26, .	3.0	27
68	Global and regional sea surface temperature trends during Marine Isotope Stage 11. <i>Climate of the Past</i> , 2013, 9, 2231-2252.	3.4	27
69	A model for the potential locations of Triassic evaporite basins driven by paleoclimatic GCM simulations. <i>Global and Planetary Change</i> , 1994, 9, 233-249.	3.5	25
70	Solar modulation of North Atlantic central Water formation at multidecadal timescales during the late Holocene. <i>Earth and Planetary Science Letters</i> , 2011, 308, 161-171.	4.4	25
71	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> , 2006, 33, .	4.0	24
72	Intra-interglacial climate variability: model simulations of Marine Isotope Stages 1, 5, 11, 13, and 15. <i>Climate of the Past</i> , 2016, 12, 677-695.	3.4	24

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73	Centennial-to-millennial-scale periodicities of Holocene climate and sediment injections off the western Barents shelf, 75°N. <i>Boreas</i> , 2003, 32, 447-461.	2.4	24
74	Climate variability features of the last interglacial in the East Antarctic EPICA Dome C ice core. <i>Geophysical Research Letters</i> , 2014, 41, 4004-4012.	4.0	23
75	Ocean temperature response to idealized Gleissberg and de Vries solar cycles in a comprehensive climate model. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	21
76	Planktonic foraminifera shell fluxes from a weekly resolved sediment trap record in the southwestern Atlantic: Evidence for synchronized reproduction. <i>Marine Micropaleontology</i> , 2016, 125, 25-35.	1.2	20
77	Spatial fingerprint and magnitude of changes in the Atlantic meridional overturning circulation during marine isotope stage 3. <i>Geophysical Research Letters</i> , 2015, 42, 1903-1911.	4.0	19
78	Modeling the distribution and seasonality of <i>Neogloboquadrina pachyderma</i> in the North Atlantic Ocean during Heinrich Stadial 1. <i>Paleoceanography</i> , 2016, 31, 986-1010.	3.0	19
79	Calcification depths of planktonic foraminifera from the southwestern Atlantic derived from oxygen isotope analyses of sediment trap material. <i>Marine Micropaleontology</i> , 2017, 136, 37-50.	1.2	19
80	Consistent CO ₂ release by pyrite oxidation on continental shelves prior to glacial terminations. <i>Nature Geoscience</i> , 2019, 12, 929-934.	12.9	19
81	Reduced North Atlantic Central Water formation in response to early Holocene ice sheet melting. <i>Geophysical Research Letters</i> , 2010, 37, .	4.0	18
82	Dependence of slope lapse rate over the Greenland ice sheet on background climate. <i>Journal of Glaciology</i> , 2017, 63, 568-572.	2.2	18
83	Inferring moisture transport across Central America: Can modern analogs of climate variability help reconcile paleosalinity records?. <i>Quaternary Science Reviews</i> , 2010, 29, 1317-1321.	3.0	17
84	Improvement of morphodynamic modeling of tidal channel migration by nudging. <i>Coastal Engineering</i> , 2013, 77, 1-13.	4.0	17
85	Abrupt cold events in the North Atlantic Ocean in a transient Holocene simulation. <i>Climate of the Past</i> , 2018, 14, 1165-1178.	3.4	17
86	African dust deposition in Puerto Rico: Analysis of a 20-year rainfall chemistry record and comparison with models. <i>Atmospheric Environment</i> , 2019, 216, 116907.	4.1	17
87	Past and future impact of the winter North Atlantic Oscillation in the Caspian Sea catchment area. <i>International Journal of Climatology</i> , 2020, 40, 2717-2731.	3.5	16
88	Numerical Simulation of Deep-Sea Sediment Transport Induced by a Dredge Experiment in the Northeastern Pacific Ocean. <i>Frontiers in Marine Science</i> , 2021, 8, .	2.5	16
89	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> , 2016, 420, 23-36.	3.3	15
90	Exploring Late Pleistocene climate variations. <i>Eos</i> , 2000, 81, 625-630.	0.1	13

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91	Modeling ocean-atmosphere carbon budgets during the Last Glacial Maximum-Heinrich 1 meltwater event-Bölling transition. <i>International Journal of Earth Sciences</i> , 2001, 90, 412-425.	1.8	13
92	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> , 2016, 9, 3859-3873.	3.6	13
93	Response of precipitation over Greenland and the adjacent ocean to North Pacific warm spells during Dansgaard-Oeschger stadials. <i>Terra Nova</i> , 2002, 14, 295-300.	2.1	12
94	Holocene Climate Variability on Centennial-to-Millennial Time Scales: 2. Internal and Forced Oscillations as Possible Causes. , 2002, , 55-73.		12
95	Evidence of eddy-related deep-ocean current variability in the northeast tropical Pacific Ocean induced by remote gap winds. <i>Biogeosciences</i> , 2020, 17, 6527-6544.	3.3	12
96	Impact of solar-induced stratospheric ozone decline on Southern Hemisphere westerlies during the Late Maunder Minimum. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	11
97	Investigating the effects of a summer storm on the North Sea stratification using a regional coupled ocean-atmosphere model. <i>Ocean Dynamics</i> , 2017, 67, 211-235.	2.2	11
98	Atmospheric carbon dioxide variations across the middle Miocene climate transition. <i>Climate of the Past</i> , 2021, 17, 703-719.	3.4	11
99	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> , 2012, 27, .	3.0	10
100	Impacts of Variations in Caspian Sea Surface Area on Catchment-Scale and Large-Scale Climate. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD034251.	3.3	10
101	Sensitivity of the Greenland Ice Sheet to Interglacial Climate Forcing: MIS 5e Versus MIS 11. <i>Paleoceanography</i> , 2017, 32, 1089-1101.	3.0	9
102	A Dynamical Reconstruction of the Global Monthly Mean Oxygen Isotopic Composition of Seawater. <i>Journal of Geophysical Research: Oceans</i> , 2018, 123, 7206-7219.	2.6	9
103	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> , 2019, 38, 113-131.	3.6	9
104	Listening to glaciers. <i>Nature Geoscience</i> , 2008, 1, 408-408.	12.9	8
105	Stable water isotopes in the MITgcm. <i>Geoscientific Model Development</i> , 2017, 10, 3125-3144.	3.6	8
106	Spatial analysis of early-warning signals for a North Atlantic climate transition in a coupled GCM. <i>Climate Dynamics</i> , 2019, 53, 97-113.	3.8	8
107	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> , 2004, 207, 127-141.	2.3	7
108	Assessing the ability of the ¹⁴ C projection-age method to constrain the circulation of the past in a 3D ocean model. <i>Geochemistry, Geophysics, Geosystems</i> , 2008, 9, .	2.5	7

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109	Quaternary oceans and climate change: lessons for the future?. International Journal of Earth Sciences, 2010, 99, 171-189.	1.8	7
110	Influence of topography on tropical African vegetation coverage. Climate Dynamics, 2016, 46, 2535-2549.	3.8	7
111	Orbitally paced climate variability during the Middle Miocene: High resolution benthic foraminiferal stable-isotope records from the tropical western Pacific. Geophysical Monograph Series, 2004, , 321-337.	0.1	6
112	Calcite saturation, foraminiferal test mass, and Mg/Ca-based temperatures dissolution corrected using XDXâ€”A 150 ka record from the western Indian Ocean. Geochemistry, Geophysics, Geosystems, 2014, 15, 781-797.	2.5	6
113	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. Geoscientific Model Development, 2020, 13, 825-840.	3.6	5
114	Water Mass Versus Sea Level Effects on Benthic Foraminiferal Oxygen Isotope Ratios in the Atlantic Ocean During the LGM. Paleoceanography and Paleoclimatology, 2019, 34, 98-121.	2.9	4
115	A dynamic ocean driven by changes in CO2 and Antarctic ice-sheet in the middle Miocene. Palaeogeography, Palaeoclimatology, Palaeoecology, 2021, 579, 110591.	2.3	4
116	Fractal Analyses of Pleistocene Marine Oxygen Isotope Records. , 1994, , 377-387.		4
117	A forward and inverse transformation program for the â€œAtlas of Lithological-Paleogeographical Maps of the Worldâ€” Computers and Geosciences, 1995, 21, 907-911.	4.2	3
118	Tracing Climate-Variability: The Search for Climate Dynamics on Decadal to Millennial Time Scales. , 2002, , 125-148.		3
119	Dynamic boreal summer atmospheric circulation response as negative feedback to Greenland melt during the MIS-11 interglacial. Climate of the Past, 2022, 18, 775-792.	3.4	2
120	Correction to â€œModeling the oxygen-isotopic composition of the North American Ice Sheet and its effect on the isotopic composition of the ocean during the last glacial cycleâ€” Geophysical Research Letters, 2006, 33, .	4.0	1
121	Simultaneous presence of orbital inclination and eccentricity in proxy climate records from Ocean Drilling Program Site 806: Comment and Reply. Geology, 1997, 25, 860.	4.4	0
122	Corrigendum to "Solar-forced shifts of the Southern Hemisphere Westerlies during the Holocene" published in Clim. Past, 7, 339â€”347, 2011. Climate of the Past, 2011, 7, 985-985.	3.4	0
123	A sensor network for long-term monitoring of sediment transport in the coastal region. , 2012, , .		0