Axel Timmermann

List of Publications by Year
in descending order

215 papers	22,037 citations	10956 71 h-index	10424 139 g-index
269 all docs	269 docs citations	269 times ranked	17413 citing authors

#	Article	IF	Citations
1	Increasing frequency of extreme El NiÃ±o events due to greenhouse warming. Nature Climate Change, 2014, 4, 111-116.	8.1	1,572
2	Increased El NiÃ±o frequency in a climate model forced by future greenhouse warming. Nature, 1999, 398, 694-697.	13.7	1,120
3	Recent intensification of wind-driven circulation in the Pacific and the ongoing warming hiatus. Nature Climate Change, 2014, 4, 222-227.	8.1	1,115
4	The impact of global warming on the tropical Pacific Ocean and El NiÃ±o. Nature Geoscience, 2010, 3, 391-397.	5.4	1,029
5	El NiÃ±oâ€“Southern Oscillation complexity. Nature, 2018, 559, 535-545.	13.7	702
6	ENSO and greenhouse warming. Nature Climate Change, 2015, 5, 849-859.	8.1	596
7	Enhanced warming over the global subtropical western boundary currents. Nature Climate Change, 2012, 2, 161-166.	8.1	564
8	Carbon dioxide and climate impulse response functions for the computation of greenhouse gas metrics: a multi-model analysis. Atmospheric Chemistry and Physics, 2013, 13, 2793-2825.	1.9	517
9	Recent Walker circulation strengthening and Pacific cooling amplified by Atlantic warming. Nature Climate Change, 2014, 4, 888-892.	8.1	480
10	Increased frequency of extreme LaÂNiÃ±a events under greenhouse warming. Nature Climate Change, 2015, 5, 132-137.	8.1	479
11	The Holocene temperature conundrum. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E3501-5.	3.3	344
12	Did Our Species Evolve in Subdivided Populations across Africa, and Why Does It Matter?. Trends in Ecology and Evolution, 2018, 33, 582-594.	4.2	315
13	Links between tropical rainfall and North Atlantic climate during the last glacial period. Nature Geoscience, 2013, 6, 213-217.	5.4	303
14	The Influence of a Weakening of the Atlantic Meridional Overturning Circulation on ENSO. Journal of Climate, 2007, 20, 4899-4919.	1.2	282
15	Northern Hemispheric Interdecadal Variability: A Coupled Airâ€“Sea Mode. Journal of Climate, 1998, 11, 1906-1931.	1.2	280
16	Description of the Earth system model of intermediate complexity LOVECLIM version 1.2. Geoscientific Model Development, 2010, 3, 603-633.	1.3	279
17	Strong hemispheric coupling of glacial climate through freshwater discharge and ocean circulation. Nature, 2004, 430, 851-856.	13.7	265
18	Strong El NiÃ±o events and nonlinear dynamical heating. Geophysical Research Letters, 2003, 30, 20-1.	1.5	258

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19	Deepwater Formation in the North Pacific During the Last Glacial Termination. Science, 2010, 329, 200-204.	6.0	229
20	Evolution and forcing mechanisms of El NiÃ±o over the past 21,000 years. Nature, 2014, 515, 550-553.	13.7	228
21	Late Pleistocene climate drivers of early human migration. Nature, 2016, 538, 92-95.	13.7	226
22	A combination mode of the annual cycle and the ElÂNiÃ±o/Southern Oscillation. Nature Geoscience, 2013, 6, 540-544.	5.4	224
23	Wind Effects on Past and Future Regional Sea Level Trends in the Southern Indo-Pacific*. Journal of Climate, 2010, 23, 4429-4437.	1.2	201
24	Changing El NiÃ±oâ€“Southern Oscillation in a warming climate. Nature Reviews Earth & Environment, 2021, 2, 628-644.	12.2	197
25	Using palaeo-climate comparisons to constrain future projections in CMIP5. Climate of the Past, 2014, 10, 221-250.	1.3	193
26	Southern Hemisphere and Deep-Sea Warming Led Deglacial Atmospheric CO ₂ Rise and Tropical Warming. Science, 2007, 318, 435-438.	6.0	190
27	A unified proxy for ENSO and PDO variability since 1650. Climate of the Past, 2010, 6, 1-17.	1.3	179
28	Internal and forced climate variability during the last millennium: a model-data comparison using ensemble simulations. Quaternary Science Reviews, 2005, 24, 1345-1360.	1.4	172
29	Millennial-scale variability in Antarctic ice-sheet discharge during the last deglaciation. Nature, 2014, 510, 134-138.	13.7	171
30	Combination Mode Dynamics of the Anomalous Northwest Pacific Anticyclone*. Journal of Climate, 2015, 28, 1093-1111.	1.2	169
31	Revisiting ENSO/Indian Ocean Dipole phase relationships. Geophysical Research Letters, 2017, 44, 2481-2492.	1.5	168
32	More extreme swings of the South Pacific convergence zone due to greenhouse warming. Nature, 2012, 488, 365-369.	13.7	160
33	Modulation of the bipolar seesaw in the Southeast Pacific during Termination 1. Earth and Planetary Science Letters, 2007, 259, 400-413.	1.8	155
34	ENSO Suppression due to Weakening of the North Atlantic Thermohaline Circulation*. Journal of Climate, 2005, 18, 3122-3139.	1.2	153
35	Reduced Interannual Rainfall Variability in East Africa During the Last Ice Age. Science, 2011, 333, 743-747.	6.0	146
36	North Pacific Climate Response to Freshwater Forcing in the Subarctic North Atlantic: Oceanic and Atmospheric Pathways. Journal of Climate, 2009, 22, 1424-1445.	1.2	140

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37	Skilful multi-year predictions of tropical trans-basin climate variability. Nature Communications, 2015, 6, 6869.	5.8	132
38	Ubiquity of human-induced changes in climate variability. Earth System Dynamics, 2021, 12, 1393-1411.	2.7	131
39	Hindcasting the continuum of Dansgaardâ€“Oeschger variability: mechanisms, patterns and timing. Climate of the Past, 2014, 10, 63-77.	1.3	130
40	A Nonlinear Theory for El NiÃ±o Bursting. Journals of the Atmospheric Sciences, 2003, 60, 152-165.	0.6	127
41	Unraveling El NiÃ±o's impact on the East Asian Monsoon and Yangtze River summer flooding. Geophysical Research Letters, 2016, 43, 11,375.	1.5	125
42	Deconstructing the Last Glacial termination: the role of millennial and orbital-scale forcings. Quaternary Science Reviews, 2011, 30, 1155-1172.	1.4	124
43	Early Pliocene increase in thermohaline overturning: A precondition for the development of the modern equatorial Pacific cold tongue. Paleoceanography, 2010, 25, .	3.0	123
44	Regional Patterns of Tropical Indo-Pacific Climate Change: Evidence of the Walker Circulation Weakening. Journal of Climate, 2012, 25, 1689-1710.	1.2	122
45	Ensemble-mean dynamics of the ENSO recharge oscillator under state-dependent stochastic forcing. Geophysical Research Letters, 2007, 34, .	1.5	120
46	The Effect of the South Pacific Convergence Zone on the Termination of El NiÃ±o Events and the Meridional Asymmetry of ENSO*. Journal of Climate, 2012, 25, 5566-5586.	1.2	117
47	Eastern tropical Pacific hydrologic changes during the past 27,000 years from D/H ratios in alkenones. Paleoceanography, 2007, 22, .	3.0	113
48	Nonlinear climate sensitivity and its implications for future greenhouse warming. Science Advances, 2016, 2, e1501923.	4.7	112
49	The Effect of Orbital Forcing on the Mean Climate and Variability of the Tropical Pacific. Journal of Climate, 2007, 20, 4147-4159.	1.2	111
50	Mediterranean winter rainfall in phase with African monsoons during theÂpast 1.36Âmillion years. Nature, 2019, 573, 256-260.	13.7	111
51	Coherent Resonant Millennial-Scale Climate Oscillations Triggered by Massive Meltwater Pulses. Journal of Climate, 2003, 16, 2569-2585.	1.2	110
52	The Effect of Explosive Tropical Volcanism on ENSO. Journal of Climate, 2011, 24, 2178-2191.	1.2	109
53	Meridional reorganizations of marine and terrestrial productivity during Heinrich events. Paleoceanography, 2008, 23, .	3.0	108
54	A Nonlinear Mechanism for Decadal El NiÃ±O Amplitude Changes. Geophysical Research Letters, 2002, 29, 3-1.	1.5	104

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55	Tropical Airâ€“Sea Interactions Accelerate the Recovery of the Atlantic Meridional Overturning Circulation after a Major Shutdown. Journal of Climate, 2007, 20, 4940-4956.	1.2	100
56	Using paleoclimate proxy-data to select optimal realisations in an ensemble of simulations of the climate of the past millennium. Climate Dynamics, 2006, 27, 165-184.	1.7	97
57	Simulation of the Last 21 000 Years Using Accelerated Transient Boundary Conditions*. Journal of Climate, 2007, 20, 4377-4401.	1.2	90
58	The origin of the European "Medieval Warm Period". Climate of the Past, 2006, 2, 99-113.	1.3	89
59	Estimated strength of the Atlantic overturning circulation during the last deglaciation. Nature Geoscience, 2013, 6, 208-212.	5.4	88
60	Reconciling opposing Walker circulation trends in observations and model projections. Nature Climate Change, 2019, 9, 405-412.	8.1	86
61	ENSO Seasonal Synchronization Theory. Journal of Climate, 2014, 27, 5285-5310.	1.2	85
62	Future Changes of Summer Monsoon Characteristics and Evaporative Demand Over Asia in CMIP6 Simulations. Geophysical Research Letters, 2020, 47, e2020GL087492.	1.5	85
63	Biophysical Feedbacks in the Tropical Pacific. Journal of Climate, 2005, 18, 58-70.	1.2	83
64	Detecting regional anthropogenic trends in ocean acidification against natural variability. Nature Climate Change, 2012, 2, 167-171.	8.1	83
65	Radiocarbon age anomaly at intermediate water depth in the Pacific Ocean during the last deglaciation. Paleoceanography, 2009, 24, .	3.0	82
66	Tropical Pacific SST Drivers of Recent Antarctic Sea Ice Trends. Journal of Climate, 2016, 29, 8931-8948.	1.2	82
67	Mechanisms for millennial-scale global synchronization during the last glacial period. Paleoceanography, 2005, 20, n/a-n/a.	3.0	79
68	Millennial to orbital-scale variations of drought intensity in the Eastern Mediterranean. Quaternary Science Reviews, 2016, 133, 77-95.	1.4	79
69	Human origins in a southern African palaeo-wetland and first migrations. Nature, 2019, 575, 185-189.	13.7	79
70	Reconstructing surface temperature changes over the past 600 years using climate model simulations with data assimilation. Journal of Geophysical Research, 2010, 115, .	3.3	78
71	Abrupt onset and prolongation of aragonite undersaturation events in the Southern Ocean. Nature Climate Change, 2016, 6, 172-176.	8.1	77
72	The climate response of the Indoâ€Pacific warm pool to glacial sea level. Paleoceanography, 2016, 31, 866-894.	3.0	76

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73	Decadal ENSO amplitude modulations: a nonlinear paradigm. Global and Planetary Change, 2003, 37, 135-156.	1.6	75
74	Role of the Bering Strait on the hysteresis of the ocean conveyor belt circulation and glacial climate stability. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 6417-6422.	3.3	75
75	Inferred changes in El NiÃ±oâ€“Southern Oscillation variance over the past six centuries. Climate of the Past, 2013, 9, 2269-2284.	1.3	75
76	The response of ENSO flavors to midâ€Holocene climate: Implications for proxy interpretation. Paleoceanography, 2015, 30, 527-547.	3.0	75
77	Warming Seas in the Coral Triangle: Coral Reef Vulnerability and Management Implications. Coastal Management, 2010, 38, 518-539.	1.0	74
78	Glacial changes in tropical climate amplified by the Indian Ocean. Science Advances, 2018, 4, eaat9658.	4.7	74
79	Phytoplankton influences on tropical climate. Geophysical Research Letters, 2002, 29, 19-1-19-4.	1.5	73
80	The Roles of CO2 and Orbital Forcing in Driving Southern Hemispheric Temperature Variations during the Last 21 000 Yr*. Journal of Climate, 2009, 22, 1626-1640.	1.2	72
81	Climate and marine carbon cycle response to changes in the strength of the Southern Hemispheric westerlies. Paleoceanography, 2008, 23, .	3.0	71
82	Changes in South Pacific rainfall bands in a warming climate. Nature Climate Change, 2013, 3, 417-423.	8.1	71
83	Climate and biogeochemical response to a rapid melting of the West Antarctic Ice Sheet during interglacials and implications for future climate. Paleoceanography, 2010, 25, n/a-n/a.	3.0	66
84	Potential tropical Atlantic impacts on Pacific decadal climate trends. Geophysical Research Letters, 2016, 43, 7143-7151.	1.5	65
85	Stochastically Generated North American Megadroughts. Journal of Climate, 2015, 28, 1865-1880.	1.2	63
86	Abrupt changes in the southern extent of NorthÂAtlantic Deep Water during Dansgaardâ€“Oeschger events. Nature Geoscience, 2015, 8, 950-954.	5.4	63
87	Interannual to Decadal Predictability in a Coupled Oceanâ€“Atmosphere General Circulation Model. Journal of Climate, 1999, 12, 2607-2624.	1.2	61
88	Seasonal Synchronization of ENSO Events in a Linear Stochastic Model*. Journal of Climate, 2010, 23, 5629-5643.	1.2	61
89	Decadal Monsoonâ€ENSO Relationships Reexamined. Geophysical Research Letters, 2018, 45, 2014-2021.	1.5	61
90	Influences of Atlantic Climate Change on the Tropical Pacific via the Central American Isthmus*. Journal of Climate, 2008, 21, 3914-3928.	1.2	59

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91	Variability in North Pacific intermediate and deep water ventilation during Heinrich events in two coupled climate models. Deep-Sea Research Part II: Topical Studies in Oceanography, 2012, 61-64, 114-126.	0.6	59
92	Detecting the Nonstationary Response of ENSO to Greenhouse Warming. Journals of the Atmospheric Sciences, 1999, 56, 2313-2325.	0.6	58
93	Increasing ENSOâ€“rainfall variability due to changes in future tropical temperatureâ€“rainfall relationship. Communications Earth & Environment, 2021, 2, .	2.6	58
94	Future high-resolution El NiÃ±o/Southern Oscillation dynamics. Nature Climate Change, 2021, 11, 758-765.	8.1	58
95	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.	1.5	56
96	Synoptic Reorganization of Atmospheric Flow during the Last Glacial Maximum*. Journal of Climate, 2005, 18, 2826-2846.	1.2	56
97	Potential Feedbacks Between Pacific Ocean Ecosystems and Interdecadal Climate Variations. Bulletin of the American Meteorological Society, 2003, 84, 617-634.	1.7	55
98	Phase Synchronization of the El NiÃ±o-Southern Oscillation with the Annual Cycle. Physical Review Letters, 2011, 107, 128501.	2.9	55
99	Future extreme sea level seesaws in the tropical Pacific. Science Advances, 2015, 1, e1500560.	4.7	55
100	Climate effects on archaic human habitats and species successions. Nature, 2022, 604, 495-501.	13.7	55
101	Surface temperature control in the North and tropical Pacific during the last glacial maximum. Climate Dynamics, 2004, 23, 353-370.	1.7	54
102	Assessing divergent SST behavior during the last 21 ka derived from alkenones andG. ruber-Mg/Ca in the equatorial Pacific. Paleoceanography, 2014, 29, 680-696.	3.0	52
103	On the definition of seasons in paleoclimate simulations with orbital forcing. Paleoceanography, 2008, 23, .	3.0	51
104	Modeling Obliquity and CO2 Effects on Southern Hemisphere Climate during the Past 408 ka*. Journal of Climate, 2014, 27, 1863-1875.	1.2	49
105	Multi-year predictability of climate, drought, and wildfire in southwestern North America. Scientific Reports, 2017, 7, 6568.	1.6	49
106	Sea ice variability in the southern Norwegian Sea during glacial Dansgaard-Oeschger climate cycles. Science Advances, 2019, 5, eaau6174.	4.7	49
107	Reduced tropical cyclone densities and ocean effects due to anthropogenic greenhouse warming. Science Advances, 2020, 6, .	4.7	48
108	The Curious Case of the EL NiÃ±o That Never Happened: A Perspective from 40 Years of Progress in Climate Research and Forecasting. Bulletin of the American Meteorological Society, 2015, 96, 1647-1665.	1.7	47

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109	Nonlinear dimensionality reduction in climate data. Nonlinear Processes in Geophysics, 2004, 11, 393-398.	0.6	46
110	Intensification of the annual cycle in the tropical Pacific due to greenhouse warming. Geophysical Research Letters, 2004, 31, n/a-n/a.	1.5	46
111	El NiÃ±oâ˜Southern Oscillation frequency cascade. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 13490-13495.	3.3	46
112	Noise-Induced Transitions in a Simplified Model of the Thermohaline Circulation. Journal of Physical Oceanography, 2000, 30, 1891-1900.	0.7	44
113	Is the wind stress forcing essential for the meridional overturning circulation?. Geophysical Research Letters, 2004, 31, .	1.5	44
114	Impact of diurnal atmosphereâ€“ocean coupling on tropical climate simulations using a coupled GCM. Climate Dynamics, 2010, 34, 905-917.	1.7	44
115	Deglacial ice sheet meltdown: orbital pacemaking and CO₂ effects. Climate of the Past, 2014, 10, 1567-1579.	1.3	40
116	The Influence of ENSO on the Generation of Decadal Variability in the North Pacific*. Journal of Climate, 2007, 20, 667-680.	1.2	39
117	Mechanisms for the Onset of the African Humid Period and Sahara Greening 14.5â€“11 ka BP*. Journal of Climate, 2010, 23, 2612-2633.	1.2	39
118	An Interhemispheric Tropical Sea Level Seesaw due to El NiÃ±o Taimasa. Journal of Climate, 2014, 27, 1070-1081.	1.2	39
119	Quantifying the potential causes of Neanderthal extinction: Abrupt climate change versus competition and interbreeding. Quaternary Science Reviews, 2020, 238, 106331.	1.4	38
120	Sea surface temperature changes in the Okhotsk Sea and adjacent North Pacific during the last glacial maximum and deglaciation. Deep-Sea Research Part II: Topical Studies in Oceanography, 2012, 61-64, 93-105.	0.6	36
121	Thermal photon production in heavy-ion collisions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1995, 345, 307-312.	1.5	35
122	Modeling evidence for enhanced El NiÃ±o-Southern Oscillation amplitude during the Last Glacial Maximum. Paleoceanography, 2004, 19, n/a-n/a.	3.0	35
123	Effects of Salt Compensation on the Climate Model Response in Simulations of Large Changes of the Atlantic Meridional Overturning Circulation*. Journal of Climate, 2007, 20, 5912-5928.	1.2	35
124	Removing the North Pacific halocline: Effects on global climate, ocean circulation and the carbon cycle. Deep-Sea Research Part II: Topical Studies in Oceanography, 2012, 61-64, 106-113.	0.6	35
125	Drivers of future seasonal cycle changes in oceanic <i>p</i>CO₂. Biogeosciences, 2018, 15, 5315-5327.	1.3	35
126	Effects of biologically induced differential heating in an eddyâ€permitting coupled oceanâ€ecosystem model. Journal of Geophysical Research, 2009, 114, .	3.3	34

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127	Evidence for 800years of North Atlantic multi-decadal variability from a Puerto Rican speleothem. Earth and Planetary Science Letters, 2011, 308, 23-28.	1.8	34
128	Emergence of climate change in the tropical Pacific. Nature Climate Change, 2022, 12, 356-364.	8.1	34
129	Dynamics and characteristics of dry and moist heatwaves over East Asia. Npj Climate and Atmospheric Science, 2022, 5, .	2.6	34
130	The mechanism behind internally generated centennial-to-millennial scale climate variability in an earth system model of intermediate complexity. Geoscientific Model Development, 2010, 3, 377-389.	1.3	33
131	Climate-human interaction associated with southeast Australian megafaunaÂextinction patterns. Nature Communications, 2019, 10, 5311.	5.8	33
132	Spurious North Tropical Atlantic precursors to El NiÃ±o. Nature Communications, 2021, 12, 3096.	5.8	33
133	Modes of climate variability as simulated by a coupled general circulation model. Part I: ENSO-like climate variability and its low-frequency modulation. Climate Dynamics, 1999, 15, 605-618.	1.7	32
134	CO2 radiative forcing and Intertropical Convergence Zone influences on western Pacific warm pool climate over the past 400ka. Quaternary Science Reviews, 2014, 86, 24-34.	1.4	32
135	An Atlanticâ€“Pacific ventilation seesaw across the last deglaciation. Earth and Planetary Science Letters, 2015, 424, 237-244.	1.8	32
136	Antarctic iceberg impacts on future Southern Hemisphere climate. Nature Climate Change, 2019, 9, 672-677.	8.1	32
137	Strong remote control of future equatorial warming by off-equatorial forcing. Nature Climate Change, 2020, 10, 124-129.	8.1	32
138	The influence of the GalÃ¡pagos Islands on tropical temperatures, currents and the generation of tropical instability waves. Geophysical Research Letters, 2004, 31, .	1.5	31
139	Towards a quantitative understanding of millennial-scale Antarctic warming events. Quaternary Science Reviews, 2010, 29, 74-85.	1.4	31
140	Quantifying the ocean's role in glacial CO₂ reductions. Climate of the Past, 2012, 8, 545-563.	1.3	30
141	Drivers of Late Pleistocene human survival and dispersal: an agent-based modeling and machine learning approach. Quaternary Science Reviews, 2019, 221, 105867.	1.4	30
142	Coldâ€Season Arctic Amplification Driven by Arctic Oceanâ€Mediated Seasonal Energy Transfer. Earth's Future, 2021, 9, e2020EF001898.	2.4	30
143	Sub-Milankovitch cycles in periplatform carbonates from the early Pliocene Great Bahama Bank. Paleoceanography, 2006, 21, n/a-n/a.	3.0	29
144	Drivers of river reactivation in North Africa during the last glacial cycle. Nature Geoscience, 2021, 14, 97-103.	5.4	29

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145	The Inverse Effect of Annual-Mean State and Annual-Cycle Changes on ENSO. Journal of Climate, 2010, 23, 1095-1110.	1.2	28
146	Glacialâ€“interglacial contrast in climate variability at centennial-to-millennial timescales: observations and conceptual model. Quaternary Science Reviews, 2004, 23, 2219-2230.	1.4	27
147	Empirical Dynamical System Modeling of ENSO Using Nonlinear Inverse Techniques. Journal of Physical Oceanography, 2001, 31, 1579-1598.	0.7	26
148	The effect of topography-enhanced diapycnal mixing on ocean and atmospheric circulation and marine biogeochemistry. Ocean Modelling, 2011, 39, 262-274.	1.0	26
149	Near collapse of the meridional SST gradient in the eastern equatorial Pacific during Heinrich Stadial 1. Paleoceanography, 2013, 28, 663-674.	3.0	26
150	Decadal predictability of soil water, vegetation, and wildfire frequency over North America. Climate Dynamics, 2015, 45, 2213-2235.	1.7	26
151	Saharan green corridors and Middle Pleistocene hominin dispersals across the Eastern Desert, Sudan. Journal of Human Evolution, 2019, 130, 141-150.	1.3	26
152	Dynamics of the Atlantic meridional overturning circulation. Part 1: Buoyancy-forced response. Progress in Oceanography, 2012, 101, 33-62.	1.5	25
153	Changes of Enso stability due to greenhouse warming. Geophysical Research Letters, 2001, 28, 2061-2064.	1.5	24
154	Mixed-Mode Oscillations of El NiÃ±oâ€“Southern Oscillation. Journals of the Atmospheric Sciences, 2016, 73, 1755-1766.	0.6	24
155	A midâ€Holocene transition in the nitrogen dynamics of the western equatorial Pacific: Evidence of a deepening thermocline?. Geophysical Research Letters, 2008, 35, .	1.5	23
156	Charging El NiÃ±o with off-equatorial westerly wind events. Climate Dynamics, 2016, 47, 1111-1125.	1.7	23
157	Precession and atmospheric CO2 modulated variability of sea ice in the central Okhotsk Sea since 130,000 years ago. Earth and Planetary Science Letters, 2018, 488, 36-45.	1.8	23
158	Timing and magnitude of Southern Ocean sea ice/carbon cycle feedbacks. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 4498-4504.	3.3	23
159	Strong middepth warming and weak radiocarbon imprints in the equatorial Atlantic during Heinrich 1 and Younger Dryas. Paleoceanography, 2016, 31, 1070-1082.	3.0	22
160	An Initial Intercomparison of Atmospheric and Oceanic Climatology for the ICE-5G and ICE-4G Models of LGM Paleotopography. Journal of Climate, 2006, 19, 3-14.	1.2	21
161	ENSOâ€driven interhemispheric Pacific mass transports. Journal of Geophysical Research: Oceans, 2014, 119, 6221-6237.	1.0	21
162	Intensification of tropical Pacific biological productivity due to volcanic eruptions. Geophysical Research Letters, 2016, 43, 1184-1192.	1.5	21

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163	Disentangling Impacts of Dynamic and Thermodynamic Components on Late Summer Rainfall Anomalies in East Asia. Journal of Geophysical Research D: Atmospheres, 2018, 123, 8623-8633.	1.2	21
164	Millennial-scale Atlantic/East Pacific sea surface temperature linkages during the last 100,000 years. Earth and Planetary Science Letters, 2014, 396, 134-142.	1.8	20
165	A surface layer variance heat budget for ENSO. Geophysical Research Letters, 2015, 42, 3529-3537.	1.5	19
166	Photon interferometry of quark-gluon dynamics reexamined. Physical Review C, 1994, 50, 3060-3063.	1.1	18
167	Fast advective recovery of the Atlantic meridional overturning circulation after a Heinrich event. Paleoceanography, 2007, 22, n/a-n/a.	3.0	18
168	Local insolation changes enhance Antarctic interglacials: Insights from an 800,000-year ice sheet simulation with transient climate forcing. Earth and Planetary Science Letters, 2018, 495, 69-78.	1.8	18
169	Stable Carbon Isotopes Suggest Large Terrestrial Carbon Inputs to the Global Ocean. Global Biogeochemical Cycles, 2021, 35, e2020GB006684.	1.9	18
170	Cyclic Markov chains with an application to an intermediate ENSO model. Nonlinear Processes in Geophysics, 2003, 10, 197-210.	0.6	17
171	The role of soil processes in Î´¹⁸O terrestrial climate proxies. Global Biogeochemical Cycles, 2014, 28, 239-252.	1.9	16
172	North American April tornado occurrences linked to global sea surface temperature anomalies. Science Advances, 2019, 5, eaaw9950.	4.7	16
173	Long-term demise of sub-Antarctic glaciers modulated by the Southern Hemisphere Westerlies. Scientific Reports, 2021, 11, 8361.	1.6	16
174	Millennialâ€scale glacial meltwater pulses and their effect on the spatiotemporal benthicÎ´¹⁸O variability. Paleoceanography, 2012, 27, .	3.0	15
175	Tropospheric Biennial Oscillation (TBO) indistinguishable from white noise. Geophysical Research Letters, 2015, 42, 7785-7791.	1.5	15
176	Caspian Sea and Black Sea Response to Greenhouse Warming in a Highâ€Resolution Global Climate Model. Geophysical Research Letters, 2021, 48, e2020GL090270.	1.5	15
177	Antarctic sea-ice expansion and Southern Ocean cooling linked to tropical variability. Nature Climate Change, 2022, 12, 461-468.	8.1	15
178	Trophic level decoupling drives future changes in phytoplankton bloom phenology. Nature Climate Change, 2022, 12, 469-476.	8.1	15
179	Promotion of glacial ice sheet buildup 60-115 kyr B.P. by precessionally paced Northern Hemispheric meltwater pulses. Paleoceanography, 2010, 25, n/a-n/a.	3.0	14
180	Reconstruction of seasonal precipitation in Hawai'i using high-resolution carbon isotope measurements across tree rings. Chemical Geology, 2015, 417, 273-278.	1.4	14

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181	Zonal phase propagation of ENSO sea surface temperature anomalies: Revisited. Geophysical Research Letters, 2013, 40, 4048-4053.	1.5	13
182	Synchronized spatial shifts of Hadley and Walker circulations. Earth System Dynamics, 2021, 12, 121-132.	2.7	13
183	Geochemical and climate modeling evidence for Holocene aridification in Hawaii: dynamic response to a weakening equatorial cold tongue. Quaternary Science Reviews, 2010, 29, 3057-3066.	1.4	12
184	Ocean circulation reconstructions from Îµ_{Nd}: A modelâ€based feasibility study. Paleoceanography, 2014, 29, 1003-1023.	3.0	12
185	Comments on â€œNoise-Induced Transitions in a Simplified Model of the Thermohaline Circulationâ€. Journal of Physical Oceanography, 2002, 32, 1112-1116.	0.7	11
186	Interactions between marine biota and ENSO: a conceptual model analysis. Nonlinear Processes in Geophysics, 2011, 18, 29-40.	0.6	11
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