

Malte Fabian Stuecker

List of Publications by Year in descending order

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76
papers

4,956
citations

117625

34
h-index

98798

67
g-index

87
all docs

87
docs citations

87
times ranked

4179
citing authors

#	ARTICLE	IF	CITATIONS
1	El Niño's Southern Oscillation complexity. <i>Nature</i> , 2018, 559, 535-545.	27.8	702
2	Recent Walker circulation strengthening and Pacific cooling amplified by Atlantic warming. <i>Nature Climate Change</i> , 2014, 4, 888-892.	18.8	480
3	Pantropical climate interactions. <i>Science</i> , 2019, 363, .	12.6	419
4	A combination mode of the annual cycle and the El Niño/Southern Oscillation. <i>Nature Geoscience</i> , 2013, 6, 540-544.	12.9	224
5	Polar amplification dominated by local forcing and feedbacks. <i>Nature Climate Change</i> , 2018, 8, 1076-1081.	18.8	216
6	Changing El Niño's Southern Oscillation in a warming climate. <i>Nature Reviews Earth & Environment</i> , 2021, 2, 628-644.	29.7	197
7	Combination Mode Dynamics of the Anomalous Northwest Pacific Anticyclone*. <i>Journal of Climate</i> , 2015, 28, 1093-1111.	3.2	169
8	Revisiting ENSO/Indian Ocean Dipole phase relationships. <i>Geophysical Research Letters</i> , 2017, 44, 2481-2492.	4.0	168
9	Ubiquity of human-induced changes in climate variability. <i>Earth System Dynamics</i> , 2021, 12, 1393-1411.	7.1	131
10	Conditions leading to the unprecedented low Antarctic sea ice extent during the 2016 austral spring season. <i>Geophysical Research Letters</i> , 2017, 44, 9008-9019.	4.0	126
11	Unraveling El Niño's impact on the East Asian Monsoon and Yangtze River summer flooding. <i>Geophysical Research Letters</i> , 2016, 43, 11,375.	4.0	125
12	The Effect of the South Pacific Convergence Zone on the Termination of El Niño Events and the Meridional Asymmetry of ENSO*. <i>Journal of Climate</i> , 2012, 25, 5566-5586.	3.2	117
13	Impact of different El Niño types on the El Niño/IOD relationship. <i>Geophysical Research Letters</i> , 2015, 42, 8570-8576.	4.0	110
14	Revisiting the Pacific Meridional Mode. <i>Scientific Reports</i> , 2018, 8, 3216.	3.3	96
15	Model tropical Atlantic biases underpin diminished Pacific decadal variability. <i>Nature Climate Change</i> , 2018, 8, 493-498.	18.8	92
16	ENSO Seasonal Synchronization Theory. <i>Journal of Climate</i> , 2014, 27, 5285-5310.	3.2	85
17	A New Understanding of El Niño's Impact over East Asia: Dominance of the ENSO Combination Mode. <i>Journal of Climate</i> , 2016, 29, 4347-4359.	3.2	67
18	Impact of ENSO longitudinal position on teleconnections to the NAO. <i>Climate Dynamics</i> , 2019, 52, 257-274.	3.8	65

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19	Climate variability impacts on rice production in the Philippines. PLoS ONE, 2018, 13, e0201426.	2.5	61
20	Increasing ENSOâ€™ rainfall variability due to changes in future tropical temperatureâ€™ rainfall relationship. Communications Earth & Environment, 2021, 2, .	6.8	58
21	Future high-resolution El NiÃ±o/Southern Oscillation dynamics. Nature Climate Change, 2021, 11, 758-765.	18.8	58
22	Strong sub-seasonal wintertime cooling over East Asia and Northern Europe associated with super El NiÃ±o events. Scientific Reports, 2017, 7, 3770.	3.3	54
23	Decadal modulation of the ENSOâ€™ East Asian winter monsoon relationship by the Atlantic Multidecadal Oscillation. Climate Dynamics, 2017, 49, 2531-2544.	3.8	51
24	Walker circulation response to extratropical radiative forcing. Science Advances, 2020, 6, .	10.3	51
25	Reduced tropical cyclone densities and ocean effects due to anthropogenic greenhouse warming. Science Advances, 2020, 6, .	10.3	48
26	El NiÃ±oâ€™ Southern Oscillation frequency cascade. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 13490-13495.	7.1	46
27	The Annual-Cycle Modulation of Meridional Asymmetry in ENSOâ€™s Atmospheric Response and Its Dependence on ENSO Zonal Structure. Journal of Climate, 2015, 28, 5795-5812.	3.2	44
28	Dynamics for El NiÃ±o-La NiÃ±a asymmetry constrain equatorial-Pacific warming pattern. Nature Communications, 2020, 11, 4230.	12.8	40
29	An Interhemispheric Tropical Sea Level Seesaw due to El NiÃ±o Taimasa. Journal of Climate, 2014, 27, 1070-1081.	3.2	39
30	Improved Predictability of the Indian Ocean Dipole Using Seasonally Modulated ENSO Forcing Forecasts. Geophysical Research Letters, 2019, 46, 9980-9990.	4.0	39
31	New Generation of Climate Models Track Recent Unprecedented Changes in Earth's Radiation Budget Observed by CERES. Geophysical Research Letters, 2020, 47, e2019GL086705.	4.0	39
32	Exceptionally Persistent Maddenâ€™ Julian Oscillation Activity Contributes to the Extreme 2020 East Asian Summer Monsoon Rainfall. Geophysical Research Letters, 2021, 48, e2020GL091588.	4.0	38
33	ENSO Regime Change since the Late 1970s as Manifested by Two Types of ENSO. Journal of the Meteorological Society of Japan, 2013, 91, 835-842.	1.8	37
34	Contrasting Local and Remote Impacts of Surface Heating on Polar Warming and Amplification. Journal of Climate, 2018, 31, 3155-3166.	3.2	33
35	Spurious North Tropical Atlantic precursors to El NiÃ±o. Nature Communications, 2021, 12, 3096.	12.8	33
36	Strong remote control of future equatorial warming by off-equatorial forcing. Nature Climate Change, 2020, 10, 124-129.	18.8	32

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37	Coldâ€Season Arctic Amplification Driven by Arctic Oceanâ€Mediated Seasonal Energy Transfer. Earth's Future, 2021, 9, e2020EF001898.	6.3	30
38	Impacts of Central Pacific El NiÃ±o on Southern China Spring Precipitation Controlled by its Longitudinal Position. Journal of Climate, 2019, 32, 7823-7836.	3.2	27
39	Pacific Meridional Modeâ€Western North Pacific Tropical Cyclone Linkage Explained by Tropical Pacific Quasiâ€Decadal Variability. Geophysical Research Letters, 2019, 46, 13346-13354.	4.0	24
40	ENSO and annual cycle interaction: the combination mode representation in CMIP5 models. Climate Dynamics, 2016, 46, 3753-3765.	3.8	22
41	Radiative Feedbacks From Stochastic Variability in Surface Temperature and Radiative Imbalance. Geophysical Research Letters, 2018, 45, 5082-5094.	4.0	21
42	Modulation of the Relationship between ENSO and Its Combination Mode by the Atlantic Multidecadal Oscillation. Journal of Climate, 2020, 33, 4679-4695.	3.2	21
43	ENSO Regime Changes Responsible for Decadal Phase Relationship Variations Between ENSO Sea Surface Temperature and Warm Water Volume. Geophysical Research Letters, 2019, 46, 7546-7553.	4.0	20
44	A New Method for Interpreting Nonstationary Running Correlations and Its Application to the ENSOâ€EAWM Relationship. Geophysical Research Letters, 2018, 45, 327-334.	4.0	18
45	Different Effects of Two ENSO Types on Arctic Surface Temperature in Boreal Winter. Journal of Climate, 2019, 32, 4943-4961.	3.2	18
46	Tropical Indoâ€Pacific Compounding Thermal Conditions Drive the 2019 Australian Extreme Drought. Geophysical Research Letters, 2021, 48, e2020GL090323.	4.0	18
47	Modulation of ocean acidification by decadal climate variability in the Gulf of Alaska. Communications Earth & Environment, 2021, 2, .	6.8	16
48	Tropospheric Biennial Oscillation (TBO) indistinguishable from white noise. Geophysical Research Letters, 2015, 42, 7785-7791.	4.0	15
49	Diagnosing the representation and causes of the ENSO persistence barrier in CMIP5 simulations. Climate Dynamics, 2019, 53, 2147-2160.	3.8	15
50	Antarctic sea-ice expansion and Southern Ocean cooling linked to tropical variability. Nature Climate Change, 2022, 12, 461-468.	18.8	15
51	A simple approach to quantifying the noiseâ€ENSO interaction. Part II: the role of coupling between the warm pool and equatorial zonal wind anomalies. Climate Dynamics, 2017, 48, 19-37.	3.8	13
52	Modulation of tropical cyclones in the southeastern part of western North Pacific by tropical Pacific decadal variability. Climate Dynamics, 2019, 53, 4475-4488.	3.8	13
53	Synchronized spatial shifts of Hadley and Walker circulations. Earth System Dynamics, 2021, 12, 121-132.	7.1	13
54	Ocean chemistry and atmospheric CO ₂ sensitivity to carbon perturbations throughout the Cenozoic. Geophysical Research Letters, 2010, 37, .	4.0	12

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55	Common Warming Pattern Emerges Irrespective of Forcing Location. <i>Journal of Advances in Modeling Earth Systems</i> , 2017, 9, 2413-2424.	3.8	11
56	Improved Predictability of the Indian Ocean Dipole Using a Stochastic Dynamical Model Compared to the North American Multimodel Ensemble Forecast. <i>Weather and Forecasting</i> , 2020, 35, 379-399.	1.4	10
57	Two Aspects of Decadal ENSO Variability Modulating the Long-Term Global Carbon Cycle. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL086390.	4.0	10
58	Atmospheric Forcing of the Pacific Meridional Mode: Tropical Pacific-Driven Versus Internal Variability. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	10
59	Reply to "Comments on "Combination Mode Dynamics of the Anomalous Northwest Pacific Anticyclone". <i>Journal of Climate</i> , 2016, 29, 4695-4706.	3.2	9
60	Distinct Surface Warming Response Over the Western and Eastern Equatorial Pacific to Radiative Forcing. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	9
61	Record-Low WNP Tropical Cyclone Activity in Early Summer 2020 due to Indian Ocean Warming and Madden-Julian Oscillation Activity. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL094578.	4.0	8
62	Extreme Indian Ocean dipole events associated with El Niño and Madden-Julian oscillation. <i>Climate Dynamics</i> , 2022, 59, 1953-1968.	3.8	8
63	A robust relationship between multidecadal global warming rate variations and the Atlantic Multidecadal Variability. <i>Climate Dynamics</i> , 2020, 55, 1945-1959.	3.8	7
64	Tropical Indo-Pacific SST influences on vegetation variability in eastern Africa. <i>Scientific Reports</i> , 2021, 11, 10462.	3.3	7
65	Understanding Lead Times of Warm-Water Volumes to ENSO Sea Surface Temperature Anomalies. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL094366.	4.0	7
66	Decadal Change of Combination Mode Spatiotemporal Characteristics due to an ENSO Regime Shift. <i>Journal of Climate</i> , 2020, 33, 5239-5251.	3.2	7
67	Distinct impacts of major El Niño events on Arctic temperatures due to differences in eastern tropical Pacific sea surface temperatures. <i>Science Advances</i> , 2022, 8, eabl8278.	10.3	7
68	El Niño Pacing Orchestrates Inter-Basin Pacific-Indian Ocean Interannual Connections. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL095242.	4.0	6
69	Robust Anthropogenic Signal Identified in the Seasonal Cycle of Tropospheric Temperature. <i>Journal of Climate</i> , 2022, 35, 6075-6100.	3.2	6
70	Equatorial Origin of the Observed Tropical Pacific Quasi-Decadal Variability From ENSO Nonlinearity. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	5
71	Record Low Arctic Sea Ice Extent in 2012 Linked to Two-Year La Niña-Driven Sea Surface Temperature Pattern. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	4
72	Evolution of the Tropical Response to Periodic Extratropical Thermal Forcing. <i>Journal of Climate</i> , 2021, , 1-53.	3.2	2

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73	New insights into future tropical climate change. <i>Nature Climate Change</i> , 2021, 11, 645-646.	18.8	2
74	El Niño and the Southern Oscillation: Theory. , 2019, , .		1
75	Comments on "The Financial Dilemma of Students Pursuing an Atmospheric Science Graduate Degree in the United States" • <i>Bulletin of the American Meteorological Society</i> , 2021, 102, 323-324.	3.3	1
76	Meridional migration of ENSO impact on tropical Atlantic precipitation controlled by the seasonal cycle. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL096365.	4.0	1