Mark A Cane

List of Publications by Year
in descending order

51 papers	9,902 citations	117625 34 h-index	189892 50 g-index
53 all docs	53 docs citations	53 times ranked	7695 citing authors

#	Article	IF	Citations
1	A Model El Ni&ntildeâ€"Southern Oscillation. Monthly Weather Review, 1987, 115, 2262-2278.	1.4	1,578
2	On the Weakening Relationship Between the Indian Monsoon and ENSO. Science, 1999, 284, 2156-2159.	12.6	1,325
3	Climate change in the Fertile Crescent and implications of the recent Syrian drought. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 3241-3246.	7.1	959
4	Predictability of El NiÃ±o over the past 148 years. Nature, 2004, 428, 733-736.	27.8	511
5	An Ocean Dynamical Thermostat. Journal of Climate, 1996, 9, 2190-2196.	3.2	492
6	Closing of the Indonesian seaway as a precursor to east African aridification around 3â€"4â€‰million years ago. Nature, 2001, 411, 157-162.	27.8	466
7	A review of the predictability and prediction of ENSO. Journal of Geophysical Research, 1998, 103, 14375-14393.	3.3	455
8	Twentieth-Century Sea Surface Temperature Trends. Science, 1997, 275, 957-960.	12.6	443
9	The evolution of El NiÃ±o, past and future. Earth and Planetary Science Letters, 2005, 230, 227-240.	4.4	304
10	The Atlantic Multidecadal Oscillation without a role for ocean circulation. Science, 2015, 350, 320-324.	12.6	287
11	Strong influence of westerly wind bursts on El NiÃ±o diversity. Nature Geoscience, 2015, 8, 339-345.	12.9	277
12	Strengthening tropical Pacific zonal sea surface temperature gradient consistent with rising greenhouse gases. Nature Climate Change, 2019, 9, 517-522.	18.8	270
13	Historical change of El NiÃ±o properties sheds light on future changes of extreme El NiÃ±o. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 22512-22517.	7.1	221
14	El NiÃ±o prediction and predictability. Journal of Computational Physics, 2008, 227, 3625-3640.	3.8	134
15	El NiÃ±o's tropical climate and teleconnections as a blueprint for pre-Ice Age climates. Paleoceanography, 2002, 17, 11-1-11-11.	3.0	133
16	A model of the tropical Pacific sea surface temperature climatology. Journal of Geophysical Research, 1988, 93, 1265-1280.	3.3	126
17	Unraveling El NiÃ±o's impact on the East Asian Monsoon and Yangtze River summer flooding. Geophysical Research Letters, 2016, 43, 11,375.	4.0	125
18	A Study of Self-Excited Oscillations of the Tropical Ocean-Atmosphere System. Part I: Linear Analysis. Journals of the Atmospheric Sciences, 1990, 47, 1562-1577.	1.7	119

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19	Indian summer monsoon rainfall and its link with ENSO and Indian Ocean climate indices. International Journal of Climatology, 2007, 27, 179-187.	3.5	117
20	Synchronous crop failures and climate-forced production variability. Science Advances, 2019, 5, eaaw1976.	10.3	105
21	Modeling Sea Level During El NiÃ±o. Journal of Physical Oceanography, 1984, 14, 1864-1874.	1.7	96
22	The role of historical forcings in simulating the observed Atlantic multidecadal oscillation. Geophysical Research Letters, 2017, 44, 2472-2480.	4.0	94
23	ENSO in the CMIP5 Simulations: Life Cycles, Diversity, and Responses to Climate Change. Journal of Climate, 2017, 30, 775-801.	3.2	93
24	Historical forcings as main drivers of the Atlantic multidecadal variability in the CESM large ensemble. Climate Dynamics, 2018, 50, 3687-3698.	3.8	91
25	Low-Pass Filtering, Heat Flux, and Atlantic Multidecadal Variability. Journal of Climate, 2017, 30, 7529-7553.	3.2	75
26	Hindcasts of Sea Level Variations during the 1982â€“83 El NiÃ±o. Journal of Physical Oceanography, 1985, 15, 213-221.	1.7	69
27	The role of ENSO in determining climate and maize yield variability in the U.S. cornbelt. International Journal of Climatology, 1999, 19, 877-888.	3.5	65
28	A Kalman Filter Analysis of Sea Level Height in the Tropical Pacific. Journal of Physical Oceanography, 1989, 19, 773-790.	1.7	64
29	New observational evidence for a positive cloud feedback that amplifies the Atlantic Multidecadal Oscillation. Geophysical Research Letters, 2016, 43, 9852-9859.	4.0	57
30	Early Pliocene (preâ€“Ice Age) El NiÃ±oâ€“like global climate: Which El NiÃ±o?. , 2007, 3, 337.		56
31	Toward Predicting Changes in the Land Monsoon Rainfall a Decade in Advance. Journal of Climate, 2018, 31, 2699-2714.	3.2	55
32	Decadal predictions in demand. Nature Geoscience, 2010, 3, 231-232.	12.9	53
33	Response to Comment on â€œThe Atlantic Multidecadal Oscillation without a role for ocean circulationâ€. Science, 2016, 352, 1527-1527.	12.6	40
34	Persistent Discrepancies between Observed and Modeled Trends in the Tropical Pacific Ocean. Journal of Climate, 2022, 35, 4571-4584.	3.2	39
35	Trans-Pacific ENSO teleconnections pose a correlated risk to agriculture. Agricultural and Forest Meteorology, 2018, 262, 298-309.	4.8	37
36	Diversity, Nonlinearity, Seasonality, and Memory Effect in ENSO Simulation and Prediction Using Empirical Model Reduction. Journal of Climate, 2016, 29, 1809-1830.	3.2	34

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37	Commentary on the Syria case: Climate as a contributing factor. Political Geography, 2017, 60, 245-247.	2.5	32
38	Accounting for Parameter Uncertainties in Model Verification: An Illustration with Tropical Sea Surface Temperature. Journal of Physical Oceanography, 1989, 19, 815-830.	1.7	29
39	The impact of NSCAT winds on predicting the 1997/1998 El NiÃ±o: A case study with the Lamont-Doherty Earth Observatory model. Journal of Geophysical Research, 1999, 104, 11321-11327.	3.3	27
40	Life cycles of agriculturally relevant <scp>ENSO</scp> teleconnections in North and South America. International Journal of Climatology, 2017, 37, 3297-3318.	3.5	23
41	Sensitivity of the tropical Pacific Ocean simulation to the temporal and spatial resolution of wind forcing. Journal of Geophysical Research, 1999, 104, 11261-11271.	3.3	22
42	A moist model monsoon. Nature, 2010, 463, 163-164.	27.8	21
43	On the Breakdown of ENSO's Relationship With Thermocline Depth in the Centralâ€Equatorial Pacific. Geophysical Research Letters, 2021, 48, e2020GL092335.	4.0	12
44	An Unconditionally Stable Scheme for the Shallow Water Equations*. Monthly Weather Review, 2000, 128, 810-823.	1.4	11
45	Pacific Decadal Variability in the View of Linear Equatorial Wave Theory*. Journal of Physical Oceanography, 2009, 39, 203-219.	1.7	11
46	Variable External Forcing Obscures the Weak Relationship between the NAO and North Atlantic Multidecadal SST Variability. Journal of Climate, 2019, 32, 3847-3864.	3.2	11
47	The Evolving Role of External Forcing in North Atlantic SST Variability over the Last Millennium. Journal of Climate, 2022, 35, 2741-2754.	3.2	10
48	Wetter Subtropics Lead to Reduced Pliocene Coastal Upwelling. Paleoceanography and Paleoclimatology, 2021, 36, e2021PA004243.	2.9	7
49	Warmer Pliocene Upwelling Site SST Leads to Wetter Subtropical Coastal Areas: A Positive Feedback on SST. Paleoceanography and Paleoclimatology, 2022, 37, .	2.9	6
50	A quantitative hydroclimatic context for the European Great Famine of 1315â€“1317. Communications Earth & Environment, 2020, 1, .	6.8	3
51	On the Allâ€India Rainfall Index and Subâ€India Rainfall Heterogeneity. Geophysical Research Letters, 2022, 49, .	4.0	1