

Andrew T Wittenberg

List of Publications by Year in descending order

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125
papers

19,638
citations

21215

62
h-index

17891

125
g-index

135
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135
docs citations

135
times ranked

14963
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanisms of Regional Arctic Sea Ice Predictability in Two Dynamical Seasonal Forecast Systems. <i>Journal of Climate</i> , 2022, 35, 4207-4231.	1.2	6
2	A re-appraisal of the ENSO response to volcanism with paleoclimate data assimilation. <i>Nature Communications</i> , 2022, 13, 747.	5.8	17
3	Seasonal-to-Decadal Variability and Prediction of the Kuroshio Extension in the GFDL Coupled Ensemble Reanalysis and Forecasting System. <i>Journal of Climate</i> , 2022, 35, 3515-3535.	1.2	8
4	Roles of Meridional Overturning in Subpolar Southern Ocean SST Trends: Insights from Ensemble Simulations. <i>Journal of Climate</i> , 2022, 35, 1577-1596.	1.2	3
5	Skillful Seasonal Prediction of North American Summertime Heat Extremes. <i>Journal of Climate</i> , 2022, 35, 4331-4345.	1.2	6
6	Projections of faster onset and slower decay of El Niño in the 21st century. <i>Nature Communications</i> , 2022, 13, 1915.	5.8	22
7	When Will Humanity Notice Its Influence on Atmospheric Rivers?. <i>Journal of Geophysical Research D: Atmospheres</i> , 2022, 127, .	1.2	5
8	Evaluating Climate Models with the CLIVAR 2020 ENSO Metrics Package. <i>Bulletin of the American Meteorological Society</i> , 2021, 102, E193-E217.	1.7	93
9	Dynamical Seasonal Predictions of Tropical Cyclone Activity: Roles of Sea Surface Temperature Errors and Atmosphere–Land Initialization. <i>Journal of Climate</i> , 2021, 34, 1743-1766.	1.2	3
10	A Seasonal Probabilistic Outlook for Tornadoes (SPOTter) in the Contiguous United States Based on the Leading Patterns of Large-Scale Atmospheric Anomalies. <i>Monthly Weather Review</i> , 2021, 149, 901-919.	0.5	5
11	Seasonal Prediction and Predictability of Regional Antarctic Sea Ice. <i>Journal of Climate</i> , 2021, 34, 6207-6233.	1.2	20
12	ENSO Dynamics in the E3SM-1-0, CESM2, and GFDL-CM4 Climate Models. <i>Journal of Climate</i> , 2021, , 1-59.	1.2	10
13	Are Multiseasonal Forecasts of Atmospheric Rivers Possible?. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL094000.	1.5	8
14	Decadal climate variability in the tropical Pacific: Characteristics, causes, predictability, and prospects. <i>Science</i> , 2021, 374, eaay9165.	6.0	92
15	Understanding Diverse Model Projections of Future Extreme El Niño. <i>Journal of Climate</i> , 2021, 34, 449-464.	1.2	24
16	Seasonal predictability of baroclinic wave activity. <i>Npj Climate and Atmospheric Science</i> , 2021, 4, .	2.6	8
17	Robust Evaluation of ENSO in Climate Models: How Many Ensemble Members Are Needed?. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL095041.	1.5	21
18	El Niño/Southern Oscillation response to low-latitude volcanic eruptions depends on ocean pre-conditions and eruption timing. <i>Communications Earth & Environment</i> , 2020, 1, .	2.6	26

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19	The GFDL Earth System Model Version 4.1 (GFDL-E2.1): Overall Coupled Model Description and Simulation Characteristics. <i>Journal of Advances in Modeling Earth Systems</i> , 2020, 12, e2019MS002015.	1.3	277
20	Relating CMIP5 Model Biases to Seasonal Forecast Skill in the Tropical Pacific. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL086765.	1.5	14
21	The Impact of Sea Surface Temperature Biases on North American Precipitation in a High-Resolution Climate Model. <i>Journal of Climate</i> , 2020, 33, 2427-2447.	1.2	14
22	SPEAR: The Next Generation GFDL Modeling System for Seasonal to Multidecadal Prediction and Projection. <i>Journal of Advances in Modeling Earth Systems</i> , 2020, 12, e2019MS001895.	1.3	94
23	Assessment of summer rainfall forecast skill in the Intra-Americas in GFDL high and low-resolution models. <i>Climate Dynamics</i> , 2019, 52, 1965-1982.	1.7	4
24	Tropical cyclone sensitivities to CO2 doubling: roles of atmospheric resolution, synoptic variability and background climate changes. <i>Climate Dynamics</i> , 2019, 53, 5999-6033.	1.7	114
25	The GFDL Global Ocean and Sea Ice Model OM4.0: Model Description and Simulation Features. <i>Journal of Advances in Modeling Earth Systems</i> , 2019, 11, 3167-3211.	1.3	195
26	Structure and Performance of GFDL's CM4.0 Climate Model. <i>Journal of Advances in Modeling Earth Systems</i> , 2019, 11, 3691-3727.	1.3	242
27	Diagnosing Secular Variations in Retrospective ENSO Seasonal Forecast Skill Using CMIP5 Model-Analogs. <i>Geophysical Research Letters</i> , 2019, 46, 1721-1730.	1.5	36
28	The GFDL Global Atmosphere and Land Model AM4.0/LM4.0: 2. Model Description, Sensitivity Studies, and Tuning Strategies. <i>Journal of Advances in Modeling Earth Systems</i> , 2018, 10, 735-769.	1.3	185
29	The GFDL Global Atmosphere and Land Model AM4.0/LM4.0: 1. Simulation Characteristics With Prescribed SSTs. <i>Journal of Advances in Modeling Earth Systems</i> , 2018, 10, 691-734.	1.3	155
30	Skillful Climate Forecasts of the Tropical Indo-Pacific Ocean Using Model-Analogs. <i>Journal of Climate</i> , 2018, 31, 5437-5459.	1.2	52
31	On the Fragile Relationship Between El Niño and California Rainfall. <i>Geophysical Research Letters</i> , 2018, 45, 907-915.	1.5	56
32	Improved Simulations of Tropical Pacific Annual-Mean Climate in the GFDL FLOR and HiFLOR Coupled GCMs. <i>Journal of Advances in Modeling Earth Systems</i> , 2018, 10, 3176-3220.	1.3	20
33	Understanding the Equatorial Pacific Cold Tongue Time-Mean Heat Budget. Part II: Evaluation of the GFDL-FLOR Coupled GCM. <i>Journal of Climate</i> , 2018, 31, 9987-10011.	1.2	11
34	CMIP5 Model-based Assessment of Anthropogenic Influence on Highly Anomalous Arctic Warmth During November–December 2016. <i>Bulletin of the American Meteorological Society</i> , 2018, 99, S34-S38.	1.7	3
35	Understanding the Equatorial Pacific Cold Tongue Time-Mean Heat Budget. Part I: Diagnostic Framework. <i>Journal of Climate</i> , 2018, 31, 9965-9985.	1.2	16
36	Precipitation Sensitivity to Local Variations in Tropical Sea Surface Temperature. <i>Journal of Climate</i> , 2018, 31, 9225-9238.	1.2	31

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37	The Extreme 2015/16 El Niño, in the Context of Historical Climate Variability and Change. <i>Bulletin of the American Meteorological Society</i> , 2018, 99, S16-S20.	1.7	50
38	CMIP5 Model-based Assessment of Anthropogenic Influence on Record Global Warmth During 2016. <i>Bulletin of the American Meteorological Society</i> , 2018, 99, S11-S15.	1.7	27
39	El Niño's Southern Oscillation complexity. <i>Nature</i> , 2018, 559, 535-545.	13.7	702
40	Impacts of a Pinatubo-size volcanic eruption on ENSO. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 925-947.	1.2	76
41	Revisiting ENSO/Indian Ocean Dipole phase relationships. <i>Geophysical Research Letters</i> , 2017, 44, 2481-2492.	1.5	168
42	Characterizing unforced multi-decadal variability of ENSO: a case study with the GFDL CM2.1 coupled GCM. <i>Climate Dynamics</i> , 2017, 49, 2845-2862.	1.7	24
43	Impact of Mountains on Tropical Circulation in Two Earth System Models. <i>Journal of Climate</i> , 2017, 30, 4149-4163.	1.2	13
44	Dominant Role of Subtropical Pacific Warming in Extreme Eastern Pacific Hurricane Seasons: 2015 and the Future. <i>Journal of Climate</i> , 2017, 30, 243-264.	1.2	79
45	ENSO in the CMIP5 Simulations: Life Cycles, Diversity, and Responses to Climate Change. <i>Journal of Climate</i> , 2017, 30, 775-801.	1.2	93
46	Understanding the double peaked El Niño in coupled GCMs. <i>Climate Dynamics</i> , 2017, 48, 2045-2063.	1.7	28
47	Observing and Predicting the 2015/16 El Niño. <i>Bulletin of the American Meteorological Society</i> , 2017, 98, 1363-1382.	1.7	253
48	Variability of fire emissions on interannual to multi-decadal timescales in two Earth System models. <i>Environmental Research Letters</i> , 2016, 11, 125008.	2.2	7
49	Multimodel Assessment of Anthropogenic Influence on Record Global and Regional Warmth During 2015. <i>Bulletin of the American Meteorological Society</i> , 2016, 97, S4-S8.	1.7	7
50	Unraveling El Niño's impact on the East Asian Monsoon and Yangtze River summer flooding. <i>Geophysical Research Letters</i> , 2016, 43, 11,375.	1.5	125
51	US regional tornado outbreaks and their links to spring ENSO phases and North Atlantic SST variability. <i>Environmental Research Letters</i> , 2016, 11, 044008.	2.2	56
52	Fourth CLIVAR Workshop on the Evaluation of ENSO Processes in Climate Models: ENSO in a Changing Climate. <i>Bulletin of the American Meteorological Society</i> , 2016, 97, 817-820.	1.7	20
53	Impact of Strong ENSO on Regional Tropical Cyclone Activity in a High-Resolution Climate Model in the North Pacific and North Atlantic Oceans. <i>Journal of Climate</i> , 2016, 29, 2375-2394.	1.2	40
54	Improved Simulation of Tropical Cyclone Responses to ENSO in the Western North Pacific in the High-Resolution GFDL HiFLOR Coupled Climate Model*. <i>Journal of Climate</i> , 2016, 29, 1391-1415.	1.2	69

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55	Simulation and Prediction of Category 4 and 5 Hurricanes in the High-Resolution GFDL HiFLOR Coupled Climate Model*. Journal of Climate, 2015, 28, 9058-9079.	1.2	181
56	Record Annual Mean Warmth Over Europe, the Northeast Pacific, and the Northwest Atlantic During 2014: Assessment of Anthropogenic Influence. Bulletin of the American Meteorological Society, 2015, 96, S61-S65.	1.7	3
57	Response of the Equatorial Pacific Seasonal Cycle to Orbital Forcing. Journal of Climate, 2015, 28, 9258-9276.	1.2	20
58	Understanding ENSO Diversity. Bulletin of the American Meteorological Society, 2015, 96, 921-938.	1.7	745
59	The Seasonality of the Great Plains Low-Level Jet and ENSO Relationship. Journal of Climate, 2015, 28, 4525-4544.	1.2	54
60	Nonlinear Zonal Wind Response to ENSO in the CMIP5 Models: Roles of the Zonal and Meridional Shift of the ITCZ/SPCZ and the Simulated Climatological Precipitation*. Journal of Climate, 2015, 28, 8556-8573.	1.2	33
61	Impacts on Ocean Heat from Transient Mesoscale Eddies in a Hierarchy of Climate Models. Journal of Climate, 2015, 28, 952-977.	1.2	292
62	Seasonal Predictability of Extratropical Storm Tracks in GFDL's High-Resolution Climate Prediction Model. Journal of Climate, 2015, 28, 3592-3611.	1.2	71
63	Improved Seasonal Prediction of Temperature and Precipitation over Land in a High-Resolution GFDL Climate Model. Journal of Climate, 2015, 28, 2044-2062.	1.2	141
64	A Link between the Hiatus in Global Warming and North American Drought. Journal of Climate, 2015, 28, 3834-3845.	1.2	91
65	Reassessing Conceptual Models of ENSO. Journal of Climate, 2015, 28, 9121-9142.	1.2	11
66	Record Annual Mean Warmth Over Europe, the Northeast Pacific, and the Northwest Atlantic During 2014: Assessment of Anthropogenic Influence. Bulletin of the American Meteorological Society, 2015, 96, S61-S65.	1.7	0
67	Spring persistence, transition, and resurgence of El Niño. Geophysical Research Letters, 2014, 41, 8578-8585.	1.5	57
68	Explaining Extreme Events of 2013 from a Climate Perspective. Bulletin of the American Meteorological Society, 2014, 95, S1-S104.	1.7	180
69	Reply to Comments on "Multiyear Predictions of North Atlantic Hurricane Frequency: Promise and Limitations". Journal of Climate, 2014, 27, 490-492.	1.2	2
70	Predicting a Decadal Shift in North Atlantic Climate Variability Using the GFDL Forecast System. Journal of Climate, 2014, 27, 6472-6496.	1.2	84
71	Intrinsic modulation of ENSO predictability viewed through a local Lyapunov lens. Climate Dynamics, 2014, 42, 253-270.	1.7	29
72	Effectiveness of the Bjerknes stability index in representing ocean dynamics. Climate Dynamics, 2014, 43, 2399-2414.	1.7	52

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73	ENSO Modulation: Is It Decadally Predictable?. Journal of Climate, 2014, 27, 2667-2681.	1.2	126
74	On the Seasonal Forecasting of Regional Tropical Cyclone Activity. Journal of Climate, 2014, 27, 7994-8016.	1.2	340
75	Climate Phenomena and their Relevance for Future Regional Climate Change. , 2014, , 1217-1308.		202
76	Recent Research at GFDL on Surface Temperature Trends and Simulations of Tropical Cyclone Activity in the Indian Ocean Region. , 2014, , 50-62.		2
77	Multimodel Assessment of Regional Surface Temperature Trends: CMIP3 and CMIP5 Twentieth-Century Simulations. Journal of Climate, 2013, 26, 8709-8743.	1.2	149
78	Estimating Central Equatorial Pacific SST Variability over the Past Millennium. Part II: Reconstructions and Implications. Journal of Climate, 2013, 26, 2329-2352.	1.2	167
79	Estimating Central Equatorial Pacific SST Variability over the Past Millennium. Part I: Methodology and Validation. Journal of Climate, 2013, 26, 2302-2328.	1.2	79
80	Explaining Extreme Events of 2012 from a Climate Perspective. Bulletin of the American Meteorological Society, 2013, 94, S1-S74.	1.7	229
81	GFDL's ESM2 Global Coupled Climate's Carbon Earth System Models. Part II: Carbon System Formulation and Baseline Simulation Characteristics*. Journal of Climate, 2013, 26, 2247-2267.	1.2	540
82	A Predictable AMO-Like Pattern in the GFDL Fully Coupled Ensemble Initialization and Decadal Forecasting System. Journal of Climate, 2013, 26, 650-661.	1.2	97
83	Multiyear Predictions of North Atlantic Hurricane Frequency: Promise and Limitations. Journal of Climate, 2013, 26, 5337-5357.	1.2	57
84	ENSO Transition, Duration, and Amplitude Asymmetries: Role of the Nonlinear Wind Stress Coupling in a Conceptual Model. Journal of Climate, 2013, 26, 9462-9476.	1.2	124
85	Interdecadal Amplitude Modulation of El Niño's Southern Oscillation and Its Impact on Tropical Pacific Decadal Variability*. Journal of Climate, 2013, 26, 7280-7297.	1.2	75
86	Inferred changes in El Niño's Southern Oscillation variance over the past six centuries. Climate of the Past, 2013, 9, 2269-2284.	1.3	75
87	New Strategies for Evaluating ENSO Processes in Climate Models. Bulletin of the American Meteorological Society, 2012, 93, 235-238.	1.7	35
88	Mean Climate Controls on the Simulated Response of ENSO to Increasing Greenhouse Gases. Journal of Climate, 2012, 25, 7399-7420.	1.2	110
89	GFDL's ESM2 Global Coupled Climate's Carbon Earth System Models. Part I: Physical Formulation and Baseline Simulation Characteristics. Journal of Climate, 2012, 25, 6646-6665.	1.2	972
90	A method for disentangling El Niño's mean state interaction. Geophysical Research Letters, 2012, 39, .	1.5	24

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91	Uncertainty in the ENSO amplitude change from the past to the future. <i>Geophysical Research Letters</i> , 2012, 39, .	1.5	64
92	Simulated Climate and Climate Change in the GFDL CM2.5 High-Resolution Coupled Climate Model. <i>Journal of Climate</i> , 2012, 25, 2755-2781.	1.2	454
93	Tropical Atlantic biases and their relation to surface wind stress and terrestrial precipitation. <i>Climate Dynamics</i> , 2012, 38, 985-1001.	1.7	111
94	Static correlation visualization for large time-varying volume data. , 2011, , .		26
95	The GFDL CM3 Coupled Climate Model: Characteristics of the Ocean and Sea Ice Simulations. <i>Journal of Climate</i> , 2011, 24, 3520-3544.	1.2	288
96	Climate Variability and Radiocarbon in the CM2Mc Earth System Model. <i>Journal of Climate</i> , 2011, 24, 4230-4254.	1.2	88
97	The Dynamical Core, Physical Parameterizations, and Basic Simulation Characteristics of the Atmospheric Component AM3 of the GFDL Global Coupled Model CM3. <i>Journal of Climate</i> , 2011, 24, 3484-3519.	1.2	887
98	El Niño and our future climate: where do we stand?. <i>Wiley Interdisciplinary Reviews: Climate Change</i> , 2010, 1, 260-270.	3.6	152
99	The impact of global warming on the tropical Pacific Ocean and El Niño. <i>Nature Geoscience</i> , 2010, 3, 391-397.	5.4	1,029
100	Warm Pool and Cold Tongue El Niño Events as Simulated by the GFDL 2.1 Coupled GCM. <i>Journal of Climate</i> , 2010, 23, 1226-1239.	1.2	189
101	Global Warming Pattern Formation: Sea Surface Temperature and Rainfall*. <i>Journal of Climate</i> , 2010, 23, 966-986.	1.2	915
102	Regional impacts of ocean color on tropical Pacific variability. <i>Ocean Science</i> , 2009, 5, 313-327.	1.3	37
103	Understanding El Niño in Ocean-Atmosphere General Circulation Models: Progress and Challenges. <i>Bulletin of the American Meteorological Society</i> , 2009, 90, 325-340.	1.7	455
104	Are historical records sufficient to constrain ENSO simulations?. <i>Geophysical Research Letters</i> , 2009, 36, .	1.5	425
105	Correlation study of time-varying multivariate climate data sets. , 2009, , .		33
106	Volcanic signals in oceans. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	181
107	Tropical Pacific impacts of convective momentum transport in the SNU coupled GCM. <i>Climate Dynamics</i> , 2008, 31, 213-226.	1.7	70
108	Sensitivity of Hybrid ENSO Models to Unresolved Atmospheric Variability. <i>Journal of Climate</i> , 2008, 21, 3704-3721.	1.2	36

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109	Modulation of Westerly Wind Bursts by Sea Surface Temperature: A Semistochastic Feedback for ENSO. <i>Journals of the Atmospheric Sciences</i> , 2007, 64, 3281-3295.	0.6	167
110	System Design and Evaluation of Coupled Ensemble Data Assimilation for Global Oceanic Climate Studies. <i>Monthly Weather Review</i> , 2007, 135, 3541-3564.	0.5	331
111	Comparison and Sensitivity of ODASI Ocean Analyses in the Tropical Pacific. <i>Monthly Weather Review</i> , 2007, 135, 2242-2264.	0.5	26
112	Reassessing the role of stochastic forcing in the 1997-1998 El Niño. <i>Geophysical Research Letters</i> , 2006, 33, n/a-n/a.	1.5	54
113	Spatial and temporal structure of Tropical Pacific interannual variability in 20th century coupled simulations. <i>Ocean Modelling</i> , 2006, 15, 274-298.	1.0	162
114	GFDL's CM2 Global Coupled Climate Models. Part II: The Baseline Ocean Simulation. <i>Journal of Climate</i> , 2006, 19, 675-697.	1.2	269
115	GFDL's CM2 Global Coupled Climate Models. Part III: Tropical Pacific Climate and ENSO. <i>Journal of Climate</i> , 2006, 19, 698-722.	1.2	322
116	Weakening of tropical Pacific atmospheric circulation due to anthropogenic forcing. <i>Nature</i> , 2006, 441, 73-76.	13.7	894
117	GFDL's CM2 Global Coupled Climate Models. Part I: Formulation and Simulation Characteristics. <i>Journal of Climate</i> , 2006, 19, 643-674.	1.2	1,431
118	Initialization of an ENSO Forecast System Using a Parallelized Ensemble Filter. <i>Monthly Weather Review</i> , 2005, 133, 3176-3201.	0.5	62
119	Multiple time level adjustment for data assimilation. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2004, 56, 2-15.	0.8	9
120	The New GFDL Global Atmosphere and Land Model AM2-2.5: Evaluation with Prescribed SST Simulations. <i>Journal of Climate</i> , 2004, 17, 4641-4673.	1.2	756
121	Multiple time level adjustment for data assimilation. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2004, 56, 2-15.	0.8	12
122	Extended Wind Stress Analyses for ENSO. <i>Journal of Climate</i> , 2004, 17, 2526-2540.	1.2	50
123	How Predictable is El Niño?. <i>Bulletin of the American Meteorological Society</i> , 2003, 84, 911-920.	1.7	174
124	Dynamical implications of prescribing part of a coupled system: Results from a low-order model. <i>Nonlinear Processes in Geophysics</i> , 1998, 5, 167-179.	0.6	10
125	On the externalization of sound images. <i>Journal of the Acoustical Society of America</i> , 1996, 99, 3678-3688.	0.5	196