

Michael Winton

List of Publications by Year in descending order

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70
papers

10,497
citations

76326

40
h-index

95266

68
g-index

70
all docs

70
docs citations

70
times ranked

9658
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.	3.2	6
2	Prospects for Seasonal Prediction of Summertime Trans-Arctic Sea Ice Path. <i>Journal of Climate</i> , 2022, 35, 4253-4263.	3.2	0
3	Importance of the Antarctic Slope Current in the Southern Ocean Response to Ice Sheet Melt and Wind Stress Change. <i>Journal of Geophysical Research: Oceans</i> , 2022, 127, .	2.6	14
4	Assimilation of Satellite-Retrieved Sea Ice Concentration and Prospects for September Predictions of Arctic Sea Ice. <i>Journal of Climate</i> , 2021, 34, 2107-2126.	3.2	11
5	On the Role of the Antarctic Slope Front on the Occurrence of the Weddell Sea Polynya under Climate Change. <i>Journal of Climate</i> , 2021, 34, 2529-2548.	3.2	13
6	Revisiting the Impact of Sea Salt on Climate Sensitivity. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL085601.	4.0	12
7	Importance of wind and meltwater for observed chemical and physical changes in the Southern Ocean. <i>Nature Geoscience</i> , 2020, 13, 35-42.	12.9	42
8	Comparison of Equilibrium Climate Sensitivity Estimates From Slab Ocean, 150-yr, and Longer Simulations. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL088852.	4.0	16
9	Simple Global Ocean Biogeochemistry With Light, Iron, Nutrients and Gas Version 2 (BLINCv2): Model Description and Simulation Characteristics in GFDL's CM4.0. <i>Journal of Advances in Modeling Earth Systems</i> , 2020, 12, e2019MS002008.	3.8	24
10	The GFDL Earth System Model Version 4.1 (GFDL-ESM 4.1): Overall Coupled Model Description and Simulation Characteristics. <i>Journal of Advances in Modeling Earth Systems</i> , 2020, 12, e2019MS002015.	3.8	277
11	A Mechanism for the Arctic Sea Ice Spring Predictability Barrier. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL088335.	4.0	29
12	Response of Storm-Related Extreme Sea Level along the U.S. Atlantic Coast to Combined Weather and Climate Forcing. <i>Journal of Climate</i> , 2020, 33, 3745-3769.	3.2	16
13	Climate Sensitivity of GFDL's CM4.0. <i>Journal of Advances in Modeling Earth Systems</i> , 2020, 12, e2019MS001838.	3.8	17
14	Regional Arctic sea-ice prediction: potential versus operational seasonal forecast skill. <i>Climate Dynamics</i> , 2019, 52, 2721-2743.	3.8	42
15	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.	3.8	195
16	Structure and Performance of GFDL's CM4.0 Climate Model. <i>Journal of Advances in Modeling Earth Systems</i> , 2019, 11, 3691-3727.	3.8	242
17	The Value of Sustained Ocean Observations for Sea Ice Predictions in the Barents Sea. <i>Journal of Climate</i> , 2019, 32, 7017-7035.	3.2	14
18	A Spring Barrier for Regional Predictions of Summer Arctic Sea Ice. <i>Geophysical Research Letters</i> , 2019, 46, 5937-5947.	4.0	29

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19	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.	3.8	185
20	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.	3.8	155
21	Change in future climate due to Antarctic meltwater. <i>Nature</i> , 2018, 564, 53-58.	27.8	189
22	Impact of Ocean Eddy Resolution on the Sensitivity of Precipitation to CO ₂ Increase. <i>Geophysical Research Letters</i> , 2018, 45, 7194-7203.	4.0	8
23	Skillful regional prediction of Arctic sea ice on seasonal timescales. <i>Geophysical Research Letters</i> , 2017, 44, 4953-4964.	4.0	102
24	Formation of sea ice bridges in narrow straits in response to wind and water stresses. <i>Journal of Geophysical Research: Oceans</i> , 2017, 122, 5588-5610.	2.6	13
25	Wind-Driven Formation of Ice Bridges in Straits. <i>Physical Review Letters</i> , 2017, 118, 128701.	7.8	3
26	Summer Enhancement of Arctic Sea Ice Volume Anomalies in the September-Ice Zone. <i>Journal of Climate</i> , 2017, 30, 2341-2362.	3.2	18
27	CO ₂ -induced Ocean Warming of the Antarctic Continental Shelf in an Eddying Global Climate Model. <i>Journal of Geophysical Research: Oceans</i> , 2017, 122, 8079-8101.	2.6	29
28	Preconditioning of the Weddell Sea Polynya by the Ocean Mesoscale and Dense Water Overflows. <i>Journal of Climate</i> , 2017, 30, 7719-7737.	3.2	62
29	Transient Climate Sensitivity Depends on Base Climate Ocean Circulation. <i>Journal of Climate</i> , 2017, 30, 1493-1504.	3.2	36
30	Agreement of CMIP5 Simulated and Observed Ocean Anthropogenic CO ₂ Uptake. <i>Geophysical Research Letters</i> , 2017, 44, 12,298.	4.0	27
31	OMIP contribution to CMIP6: experimental and diagnostic protocol for the physical component of the Ocean Model Intercomparison Project. <i>Geoscientific Model Development</i> , 2016, 9, 3231-3296.	3.6	223
32	The Flux-Anomaly-Forced Model Intercomparison Project (FAFMIP) contribution to CMIP6: investigation of sea-level and ocean climate change in response to CO ₂ forcing. <i>Geoscientific Model Development</i> , 2016, 9, 3993-4017.	3.6	133
33	Enhanced warming of the North Atlantic Ocean under climate change. <i>Journal of Geophysical Research: Oceans</i> , 2016, 121, 118-132.	2.6	348
34	Mechanisms of Southern Ocean Heat Uptake and Transport in a Global Eddying Climate Model. <i>Journal of Climate</i> , 2016, 29, 2059-2075.	3.2	56
35	Impacts on Ocean Heat from Transient Mesoscale Eddies in a Hierarchy of Climate Models. <i>Journal of Climate</i> , 2015, 28, 952-977.	3.2	292
36	Dominance of the Southern Ocean in Anthropogenic Carbon and Heat Uptake in CMIP5 Models. <i>Journal of Climate</i> , 2015, 28, 862-886.	3.2	432

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37	Has coarse ocean resolution biased simulations of transient climate sensitivity?. Geophysical Research Letters, 2014, 41, 8522-8529.	4.0	88
38	Continued global warming after CO2 emissions stoppage. Nature Climate Change, 2014, 4, 40-44.	18.8	115
39	An assessment of global and regional sea level for years 1993â€“2007 in a suite of interannual CORE-II simulations. Ocean Modelling, 2014, 78, 35-89.	2.4	106
40	Importance of initial conditions in seasonal predictions of Arctic sea ice extent. Geophysical Research Letters, 2014, 41, 5208-5215.	4.0	83
41	Influence of Ocean and Atmosphere Components on Simulated Climate Sensitivities. Journal of Climate, 2013, 26, 231-245.	3.2	30
42	Connecting Changing Ocean Circulation with Changing Climate. Journal of Climate, 2013, 26, 2268-2278.	3.2	152
43	Northern High-Latitude Heat Budget Decomposition and Transient Warming. Journal of Climate, 2013, 26, 609-621.	3.2	66
44	Impact of Enthalpy-Based Ensemble Filtering Sea Ice Data Assimilation on Decadal Predictions: Simulation with a Conceptual Pycnocline Prediction Model. Journal of Climate, 2013, 26, 2368-2378.	3.2	6
45	GFDLâ€™s ESM2 Global Coupled Climateâ€“Carbon Earth System Models. Part I: Physical Formulation and Baseline Simulation Characteristics. Journal of Climate, 2012, 25, 6646-6665.	3.2	972
46	The GFDL CM3 Coupled Climate Model: Characteristics of the Ocean and Sea Ice Simulations. Journal of Climate, 2011, 24, 3520-3544.	3.2	288
47	Do Climate Models Underestimate the Sensitivity of Northern Hemisphere Sea Ice Cover?. Journal of Climate, 2011, 24, 3924-3934.	3.2	97
48	The Dynamical Core, Physical Parameterizations, and Basic Simulation Characteristics of the Atmospheric Component AM3 of the GFDL Global Coupled Model CM3. Journal of Climate, 2011, 24, 3484-3519.	3.2	887
49	Probing the Fast and Slow Components of Global Warming by Returning Abruptly to Preindustrial Forcing. Journal of Climate, 2010, 23, 2418-2427.	3.2	383
50	Importance of Ocean Heat Uptake Efficacy to Transient Climate Change. Journal of Climate, 2010, 23, 2333-2344.	3.2	221
51	Surface Albedo Feedback Estimates for the AR4 Climate Models. Journal of Climate, 2006, 19, 359-365.	3.2	104
52	Amplified Arctic climate change: What does surface albedo feedback have to do with it?. Geophysical Research Letters, 2006, 33, .	4.0	255
53	Does the Arctic sea ice have a tipping point?. Geophysical Research Letters, 2006, 33, .	4.0	83
54	GFDL's CM2 Global Coupled Climate Models. Part II: The Baseline Ocean Simulation. Journal of Climate, 2006, 19, 675-697.	3.2	269

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55	GFDL's CM2 Global Coupled Climate Models. Part IV: Idealized Climate Response. <i>Journal of Climate</i> , 2006, 19, 723-740.	3.2	110
56	GFDL's CM2 Global Coupled Climate Models. Part I: Formulation and Simulation Characteristics. <i>Journal of Climate</i> , 2006, 19, 643-674.	3.2	1,431
57	Simple Optical Models for Diagnosing Surface-Atmosphere Shortwave Interactions. <i>Journal of Climate</i> , 2005, 18, 3796-3805.	3.2	21
58	Formulation of an ocean model for global climate simulations. <i>Ocean Science</i> , 2005, 1, 45-79.	3.4	343
59	On the Climatic Impact of Ocean Circulation. <i>Journal of Climate</i> , 2003, 16, 2875-2889.	3.2	80
60	Comparison of results from several AOGCMs for global and regional sea-level change 1900-2100. <i>Climate Dynamics</i> , 2001, 18, 225-240.	3.8	139
61	A Reformulated Three-Layer Sea Ice Model. <i>Journal of Atmospheric and Oceanic Technology</i> , 2000, 17, 525-531.	1.3	354
62	Polar Water Column Stability. <i>Journal of Physical Oceanography</i> , 1999, 29, 1368-1371.	1.7	2
63	Simulation of Density-Driven Frictional Downslope Flow in Z-Coordinate Ocean Models. <i>Journal of Physical Oceanography</i> , 1998, 28, 2163-2174.	1.7	127
64	The Effect of Cold Climate upon North Atlantic Deep Water Formation in a Simple Ocean-Atmosphere Model. <i>Journal of Climate</i> , 1997, 10, 37-51.	3.2	55
65	The Damping Effect of Bottom Topography on Internal Decadal-Scale Oscillations of the Thermohaline Circulation. <i>Journal of Physical Oceanography</i> , 1997, 27, 203-208.	1.7	37
66	The Role of Horizontal Boundaries in Parameter Sensitivity and Decadal-Scale Variability of Coarse-Resolution Ocean General Circulation Models. <i>Journal of Physical Oceanography</i> , 1996, 26, 289-304.	1.7	63
67	Energetics of Deep-Decoupling Oscillations. <i>Journal of Physical Oceanography</i> , 1995, 25, 420-427.	1.7	12
68	Why Is the Deep Sinking Narrow?. <i>Journal of Physical Oceanography</i> , 1995, 25, 997-1005.	1.7	16
69	Thermohaline Oscillations Induced by Strong Steady Salinity Forcing of Ocean General Circulation Models. <i>Journal of Physical Oceanography</i> , 1993, 23, 1389-1410.	1.7	160
70	Sea Ice-Albedo Feedback and Nonlinear Arctic Climate Change. <i>Geophysical Monograph Series</i> , 0, , 111-131.	0.1	32