

# Mark J Webb

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6085042/publications.pdf>

Version: 2024-02-01

60  
papers

10,288  
citations

76326

40  
h-index

133252

59  
g-index

63  
all docs

63  
docs citations

63  
times ranked

8571  
citing authors

#	ARTICLE	IF	CITATIONS
1	How accurately can the climate sensitivity to $\text{CO}_2$ be estimated from historical climate change?. <i>Climate Dynamics</i> , 2020, 54, 129-157.	3.8	63
2	Continuous Structural Parameterization: A Proposed Method for Representing Different Model Parameterizations Within One Structure Demonstrated for Atmospheric Convection. <i>Journal of Advances in Modeling Earth Systems</i> , 2020, 12, e2020MS002085.	3.8	3
3	An Assessment of Earth's Climate Sensitivity Using Multiple Lines of Evidence. <i>Reviews of Geophysics</i> , 2020, 58, e2019RG000678.	23.0	498
4	Testing a Physical Hypothesis for the Relationship Between Climate Sensitivity and Double-ITCZ Bias in Climate Models. <i>Journal of Advances in Modeling Earth Systems</i> , 2020, 12, e2019MS001999.	3.8	4
5	Fixed Anvil Temperature Feedback: Positive, Zero, or Negative?. <i>Journal of Climate</i> , 2020, 33, 2719-2739.	3.2	11
6	Interactions between Hydrological Sensitivity, Radiative Cooling, Stability, and Low-Level Cloud Amount Feedback. <i>Journal of Climate</i> , 2018, 31, 1833-1850.	3.2	6
7	The Impact of Parameterized Convection on Climatological Precipitation in Atmospheric Global Climate Models. <i>Geophysical Research Letters</i> , 2018, 45, 3728-3736.	4.0	26
8	The Dependence of Global Cloud and Lapse Rate Feedbacks on the Spatial Structure of Tropical Pacific Warming. <i>Journal of Climate</i> , 2018, 31, 641-654.	3.2	109
9	Accounting for Changing Temperature Patterns Increases Historical Estimates of Climate Sensitivity. <i>Geophysical Research Letters</i> , 2018, 45, 8490-8499.	4.0	116
10	Regional Intensification of the Tropical Hydrological Cycle During ENSO. <i>Geophysical Research Letters</i> , 2018, 45, 4361-4370.	4.0	30
11	The Cloud Feedback Model Intercomparison Project (CFMIP) contribution to CMIP6. <i>Geoscientific Model Development</i> , 2017, 10, 359-384.	3.6	186
12	Interpretation of Factors Controlling Low Cloud Cover and Low Cloud Feedback Using a Unified Predictive Index. <i>Journal of Climate</i> , 2017, 30, 9119-9131.	3.2	35
13	Prospects for narrowing bounds on Earth's equilibrium climate sensitivity. <i>Earth's Future</i> , 2016, 4, 512-522.	6.3	123
14	Robustness, uncertainties, and emergent constraints in the radiative responses of stratocumulus cloud regimes to future warming. <i>Climate Dynamics</i> , 2016, 46, 3025-3039.	3.8	31
15	The impact of parametrized convection on cloud feedback. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2015, 373, 20140414.	3.4	63
16	The Dependence of Radiative Forcing and Feedback on Evolving Patterns of Surface Temperature Change in Climate Models. <i>Journal of Climate</i> , 2015, 28, 1630-1648.	3.2	272
17	Clouds, circulation and climate sensitivity. <i>Nature Geoscience</i> , 2015, 8, 261-268.	12.9	647
18	The diurnal cycle of marine cloud feedback in climate models. <i>Climate Dynamics</i> , 2015, 44, 1419-1436.	3.8	18

#	ARTICLE	IF	CITATIONS
19	The cloud radiative effect on the atmospheric energy budget and global mean precipitation. <i>Climate Dynamics</i> , 2015, 44, 2301-2325.	3.8	7
20	High cloud increase in a perturbed SST experiment with a global nonhydrostatic model including explicit convective processes. <i>Journal of Advances in Modeling Earth Systems</i> , 2014, 6, 571-585.	3.8	35
21	Importance of instantaneous radiative forcing for rapid tropospheric adjustment. <i>Climate Dynamics</i> , 2014, 43, 1409-1421.	3.8	9
22	Global-mean radiative feedbacks and forcing in atmosphere-only and coupled atmosphere-ocean climate change experiments. <i>Geophysical Research Letters</i> , 2014, 41, 4035-4042.	4.0	76
23	Reliability and importance of structural diversity of climate model ensembles. <i>Climate Dynamics</i> , 2013, 41, 2745-2763.	3.8	23
24	Quantitative evaluation of the seasonal variations in climate model cloud regimes. <i>Climate Dynamics</i> , 2013, 41, 2679-2696.	3.8	39
25	Coupling between subtropical cloud feedback and the local hydrological cycle in a climate model. <i>Climate Dynamics</i> , 2013, 41, 1923-1939.	3.8	40
26	Origins of differences in climate sensitivity, forcing and feedback in climate models. <i>Climate Dynamics</i> , 2013, 40, 677-707.	3.8	159
27	Contributions of Different Cloud Types to Feedbacks and Rapid Adjustments in CMIP5*. <i>Journal of Climate</i> , 2013, 26, 5007-5027.	3.2	235
28	CGILS: Results from the first phase of an international project to understand the physical mechanisms of low cloud feedbacks in single column models. <i>Journal of Advances in Modeling Earth Systems</i> , 2013, 5, 826-842.	3.8	140
29	Forcing, feedbacks and climate sensitivity in CMIP5 coupled atmosphere-ocean climate models. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	570
30	Reliability of multi-model and structurally different single-model ensembles. <i>Climate Dynamics</i> , 2012, 39, 599-616.	3.8	49
31	Sensitivity of an Earth system climate model to idealized radiative forcing. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	26
32	Cloud Adjustment and its Role in CO2 Radiative Forcing and Climate Sensitivity: A Review. <i>Surveys in Geophysics</i> , 2012, 33, 619-635.	4.6	53
33	Multivariate probabilistic projections using imperfect climate models part I: outline of methodology. <i>Climate Dynamics</i> , 2012, 38, 2513-2542.	3.8	126
34	Climate model errors, feedbacks and forcings: a comparison of perturbed physics and multi-model ensembles. <i>Climate Dynamics</i> , 2011, 36, 1737-1766.	3.8	233
35	COSP: Satellite simulation software for model assessment. <i>Bulletin of the American Meteorological Society</i> , 2011, 92, 1023-1043.	3.3	483
36	The Relationship between Land-Ocean Surface Temperature Contrast and Radiative Forcing. <i>Journal of Climate</i> , 2011, 24, 3239-3256.	3.2	60

#	ARTICLE	IF	CITATIONS
37	Cloud Adjustment and its Role in CO2 Radiative Forcing and Climate Sensitivity: A Review. Space Sciences Series of ISSI, 2011, , 287-303.	0.0	0
38	Stratospheric water vapour and high climate sensitivity in a version of the HadSM3 climate model. Atmospheric Chemistry and Physics, 2010, 10, 7161-7167.	4.9	23
39	Structural Similarities and Differences in Climate Responses to CO2 Increase between Two Perturbed Physics Ensembles. Journal of Climate, 2010, 23, 1392-1410.	3.2	62
40	A quantitative performance assessment of cloud regimes in climate models. Climate Dynamics, 2009, 33, 141-157.	3.8	160
41	Carbon dioxide induced stomatal closure increases radiative forcing via a rapid reduction in low cloud. Geophysical Research Letters, 2009, 36, .	4.0	84
42	Mechanisms for the land/sea warming contrast exhibited by simulations of climate change. Climate Dynamics, 2008, 30, 455-465.	3.8	268
43	Evaluating cloud systems in the Met Office global forecast model using simulated CloudSat radar reflectivities. Journal of Geophysical Research, 2008, 113, .	3.3	105
44	Dependency of global mean precipitation on surface temperature. Geophysical Research Letters, 2008, 35, .	4.0	93
45	Tropospheric Adjustment Induces a Cloud Component in CO2 Forcing. Journal of Climate, 2008, 21, 58-71.	3.2	272
46	Comparison of Cloud Response to CO2 Doubling in Two GCMs. Scientific Online Letters on the Atmosphere, 2008, 4, 29-32.	1.4	5
47	Estimating Shortwave Radiative Forcing and Response in Climate Models. Journal of Climate, 2007, 20, 2530-2543.	3.2	157
48	A methodology for probabilistic predictions of regional climate change from perturbed physics ensembles. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2007, 365, 1993-2028.	3.4	262
49	Tropical vertical temperature trends: A real discrepancy?. Geophysical Research Letters, 2007, 34, .	4.0	27
50	Projected increase in continental runoff due to plant responses to increasing carbon dioxide. Nature, 2007, 448, 1037-1041.	27.8	570
51	Global mean cloud feedbacks in idealized climate change experiments. Geophysical Research Letters, 2006, 33, .	4.0	58
52	How Well Do We Understand and Evaluate Climate Change Feedback Processes?. Journal of Climate, 2006, 19, 3445-3482.	3.2	849
53	Evaluation of a component of the cloud response to climate change in an intercomparison of climate models. Climate Dynamics, 2006, 26, 145-165.	3.8	47
54	Quantifying uncertainty in changes in extreme event frequency in response to doubled CO2 using a large ensemble of GCM simulations. Climate Dynamics, 2006, 26, 489-511.	3.8	93

#	ARTICLE	IF	CITATIONS
55	On the contribution of local feedback mechanisms to the range of climate sensitivity in two GCM ensembles. <i>Climate Dynamics</i> , 2006, 27, 17-38.	3.8	334
56	Towards quantifying uncertainty in transient climate change. <i>Climate Dynamics</i> , 2006, 27, 127-147.	3.8	317
57	Importance of the mixed-phase cloud distribution in the control climate for assessing the response of clouds to carbon dioxide increase: a multi-model study. <i>Climate Dynamics</i> , 2006, 27, 113-126.	3.8	156
58	Frequency distributions of transient regional climate change from perturbed physics ensembles of general circulation model simulations. <i>Climate Dynamics</i> , 2006, 27, 357-375.	3.8	55
59	Comparing clouds and their seasonal variations in 10 atmospheric general circulation models with satellite measurements. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	250
60	Quantification of modelling uncertainties in a large ensemble of climate change simulations. <i>Nature</i> , 2004, 430, 768-772.	27.8	1,423