Ronald J Stouffer

List of Publications by Year
in descending order

84 papers	43,817 citations	28736 57 h-index	58552 86 g-index
87 all docs	87 docs citations	87 times ranked	34683 citing authors

#	Article	IF	Citations
1	An Overview of CMIP5 and the Experiment Design. Bulletin of the American Meteorological Society, 2012, 93, 485-498.	1.7	11,443
2	Overview of the Coupled Model Intercomparison Project Phase 6 (CMIP6) experimental design and organization. Geoscientific Model Development, 2016, 9, 1937-1958.	1.3	5,303
3	The next generation of scenarios for climate change research and assessment. Nature, 2010, 463, 747-756.	13.7	5,299
4	Stationarity Is Dead: Whither Water Management?. Science, 2008, 319, 573-574.	6.0	3,381
5	THE WCRP CMIP3 Multimodel Dataset: A New Era in Climate Change Research. Bulletin of the American Meteorological Society, 2007, 88, 1383-1394.	1.7	2,484
6	GFDL's CM2 Global Coupled Climate Models. Part I: Formulation and Simulation Characteristics. Journal of Climate, 2006, 19, 643-674.	1.2	1,431
7	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.	1.2	972
8	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.	1.2	887
9	Sensitivity of a global climate model to an increase of CO₂ concentration in the atmosphere. Journal of Geophysical Research, 1980, 85, 5529-5554.	3.3	874
10	Simulated response of the ocean carbon cycle to anthropogenic climate warming. Nature, 1998, 393, 245-249.	13.7	814
11	Decadal Prediction. Bulletin of the American Meteorological Society, 2009, 90, 1467-1486.	1.7	662
12	GFDLâ€™s ESM2 Global Coupled Climateâ€“Carbon Earth System Models. Part II: Carbon System Formulation and Baseline Simulation Characteristics*. Journal of Climate, 2013, 26, 2247-2267.	1.2	540
13	Century-scale effects of increased atmospheric C02 on the oceanâ€“atmosphere system. Nature, 1993, 364, 215-218.	13.7	466
14	Multiple-Century Response of a Coupled Ocean-Atmosphere Model to an Increase of Atmospheric Carbon Dioxide. Journal of Climate, 1994, 7, 5-23.	1.2	458
15	Simulation of abrupt climate change induced by freshwater input to the North Atlantic Ocean. Nature, 1995, 378, 165-167.	13.7	447
16	Reductions in labour capacity from heat stress under climate warming. Nature Climate Change, 2013, 3, 563-566.	8.1	407
17	Taking climate model evaluation to the next level. Nature Climate Change, 2019, 9, 102-110.	8.1	407
18	The Coupled Model Intercomparison Project (CMIP). Bulletin of the American Meteorological Society, 2000, 81, 313-318.	1.7	381

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19	Global Warming and Northern Hemisphere Sea Ice Extent. Science, 1999, 286, 1934-1937.	6.0	345
20	Context for interpreting equilibrium climate sensitivity and transient climate response from the CMIP6 Earth system models. Science Advances, 2020, 6, eaba1981.	4.7	321
21	Model projections of rapid sea-level rise on the northeast coast of the United States. Nature Geoscience, 2009, 2, 262-266.	5.4	307
22	Coupled ocean-atmosphere model response to freshwater input: Comparison to Younger Dryas Event. Paleoceanography, 1997, 12, 321-336.	3.0	300
23	On the use of IPCC-class models to assess the impact of climate on Living Marine Resources. Progress in Oceanography, 2011, 88, 1-27.	1.5	272
24	GFDL's CM2 Global Coupled Climate Models. Part II: The Baseline Ocean Simulation. Journal of Climate, 2006, 19, 675-697.	1.2	269
25	The Southern Hemisphere Westerlies in a Warming World: Propping Open the Door to the Deep Ocean. Journal of Climate, 2006, 19, 6382-6390.	1.2	255
26	Climate model projections from the Scenario Model Intercomparison ProjectÂ(ScenarioMIP) of CMIP6. Earth System Dynamics, 2021, 12, 253-293.	2.7	236
27	OMIP contribution to CMIP6: experimental and diagnostic protocol for the physical component of the Ocean Model Intercomparison Project. Geoscientific Model Development, 2016, 9, 3231-3296.	1.3	223
28	On Critiques of â€œStationarity is Dead: Whither Water Management?â€• Water Resources Research, 2015, 51, 7785-7789.	1.7	204
29	Low-Frequency Variability of Surface Air Temperature in a 1000-Year Integration of a Coupled Atmosphere-Ocean-Land Surface Model. Journal of Climate, 1996, 9, 376-393.	1.2	199
30	Arctic Oscillation response to volcanic eruptions in the IPCC AR4 climate models. Journal of Geophysical Research, 2006, 111, .	3.3	199
31	The GFDL Global Ocean and Sea Ice Model OM4.0: Model Description and Simulation Features. Journal of Advances in Modeling Earth Systems, 2019, 11, 3167-3211.	1.3	195
32	Change in future climate due to Antarctic meltwater. Nature, 2018, 564, 53-58.	13.7	189
33	The Role of Climate Sensitivity and Ocean Heat Uptake on AOGCM Transient Temperature Response. Journal of Climate, 2002, 15, 124-130.	1.2	184
34	Spatial Variability of Sea Level Rise in Twenty-First Century Projections. Journal of Climate, 2010, 23, 4585-4607.	1.2	184
35	Modeled Impact of Anthropogenic Land Cover Change on Climate. Journal of Climate, 2007, 20, 3621-3634.	1.2	166
36	An Enhanced Model of Land Water and Energy for Global Hydrologic and Earth-System Studies. Journal of Hydrometeorology, 2014, 15, 1739-1761.	0.7	155

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37	Multidecadal climate variability in the Greenland Sea and surrounding regions: A coupled model simulation. Geophysical Research Letters, 1997, 24, 257-260.	1.5	152
38	Response of a Coupled Oceanâ€“Atmosphere Model to Increasing Atmospheric Carbon Dioxide: Sensitivity to the Rate of Increase. Journal of Climate, 1999, 12, 2224-2237.	1.2	146
39	Intercomparison of the Southern Ocean Circulations in IPCC Coupled Model Control Simulations. Journal of Climate, 2006, 19, 4560-4575.	1.2	134
40	Time Scales of Climate Response. Journal of Climate, 2004, 17, 209-217.	1.2	133
41	Assessing the role of North Atlantic freshwater forcing in millennial scale climate variability: a tropical Atlantic perspective. Climate Dynamics, 2005, 24, 325-346.	1.7	133
42	A CO2-climate sensitivity study with a mathematical model of the global climate. Nature, 1979, 282, 491-493.	13.7	127
43	Industrial-era global ocean heat uptake doubles in recent decades. Nature Climate Change, 2016, 6, 394-398.	8.1	127
44	Climate Response to External Sources of Freshwater: North Atlantic versus the Southern Ocean. Journal of Climate, 2007, 20, 436-448.	1.2	124
45	A coupled model study of the Last Glacial Maximum: Was part of the North Atlantic relatively warm?. Geophysical Research Letters, 2001, 28, 1571-1574.	1.5	106
46	The impact of Greenland melt on local sea levels: a partially coupled analysis of dynamic and static equilibrium effects in idealized water-hosing experiments. Climatic Change, 2010, 103, 619-625.	1.7	104
47	Twentieth-century temperature and precipitation trends in ensemble climate simulations including natural and anthropogenic forcing. Journal of Geophysical Research, 2003, 108, n/a-n/a.	3.3	96
48	Study of abrupt climate change by a coupled oceanâ€“atmosphere model. Quaternary Science Reviews, 2000, 19, 285-299.	1.4	88
49	Historical warming reduced due to enhanced land carbon uptake. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 16730-16735.	3.3	88
50	The influence of transient surface fluxes on North Atlantic overturning in a coupled GCM Climate Change Experiment. Geophysical Research Letters, 1999, 26, 2749-2752.	1.5	83
51	Intercomparison makes for a better climate model. Eos, 1997, 78, 445.	0.1	81
52	Different magnitudes of projected subsurface ocean warming around Greenland and Antarctica. Nature Geoscience, 2011, 4, 524-528.	5.4	81
53	Are two modes of thermohaline circulation stable?. Tellus, Series A: Dynamic Meteorology and Oceanography, 2022, 51, 400.	0.8	78
54	Towards improved and more routine Earth system model evaluation in CMIP. Earth System Dynamics, 2016, 7, 813-830.	2.7	74

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55	An abrupt climate event in a coupled oceanâ€"atmosphere simulation without external forcing. Nature, 2001, 409, 171-175.	13.7	67
56	Northern High-Latitude Heat Budget Decomposition and Transient Warming. Journal of Climate, 2013, 26, 609-621.	1.2	66
57	A Comparison of Surface Air Temperature Variability in Three 1000-Yr Coupled Oceanâ€"Atmosphere Model Integrations. Journal of Climate, 2000, 13, 513-537.	1.2	62
58	Committed warming and its implications for climate change. Geophysical Research Letters, 2001, 28, 1535-1538.	1.5	61
59	Contrasting Local versus Regional Effects of Land-Use-Change-Induced Heterogeneity on Historical Climate: Analysis with the GFDL Earth System Model. Journal of Climate, 2015, 28, 5448-5469.	1.2	60
60	Comparison of palaeoclimate simulations enhances confidence in models. Eos, 2002, 83, 447.	0.1	58
61	Projection of Climate Change onto Modes of Atmospheric Variability. Journal of Climate, 2001, 14, 3551-3565.	1.2	56
62	Temperature trends at the surface and in the troposphere. Journal of Geophysical Research, 2006, 111, .	3.3	56
63	Big Jump of Record Warm Global Mean Surface Temperature in 2014â€"2016 Related to Unusually Large Oceanic Heat Releases. Geophysical Research Letters, 2018, 45, 1069-1078.	1.5	45
64	Comparison of the Stability of the Atlantic Thermohaline Circulation in Two Coupled Atmosphereâ€"Ocean General Circulation Models. Journal of Climate, 2007, 20, 4293-4315.	1.2	42
65	A comparison of climate change simulations produced by two GFDL coupled climate models. Global and Planetary Change, 2003, 37, 81-102.	1.6	37
66	Influence of the Atlantic Meridional Overturning Circulation on the monsoon rainfall and carbon balance of the American tropics. Geophysical Research Letters, 2014, 41, 146-151.	1.5	34
67	Assessing temperature pattern projections made in 1989. Nature Climate Change, 2017, 7, 163-165.	8.1	34
68	Temperature and Precipitation Variance in CMIP5 Simulations and Paleoclimate Records of the Last Millennium. Journal of Climate, 2017, 30, 8885-8912.	1.2	33
69	Evaluating the Uncertainty Induced by the Virtual Salt Flux Assumption in Climate Simulations and Future Projections. Journal of Climate, 2010, 23, 80-96.	1.2	32
70	Examining a coupled climate model using CFC-11 as an ocean tracer. Geophysical Research Letters, 1996, 23, 1957-1960.	1.5	30
71	Influence of Ocean and Atmosphere Components on Simulated Climate Sensitivities. Journal of Climate, 2013, 26, 231-245.	1.2	30
72	Sensitivity of Twenty-First-Century Global-Mean Steric Sea Level Rise to Ocean Model Formulation. Journal of Climate, 2013, 26, 2947-2956.	1.2	25

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73	Is there a simple bi-polar ocean seesaw?. Global and Planetary Change, 2005, 49, 19-27.	1.6	23
74	The rÃ1e of thermohaline circulation in climate. Tellus, Series A: Dynamic Meteorology and Oceanography, 1999, 51, 91-109.	0.8	22
75	vertical patterns of free and forced climate variations. Geophysical Research Letters, 1996, 23, 1801-1804.	1.5	20
76	Importance of oceanic heat uptake in transient climate change. Geophysical Research Letters, 2006, 33, .	1.5	19
77	Variability of Deep-Ocean Mass Transport: Spectral Shapes and Spatial Scales. Journal of Climate, 2000, 13, 1916-1935.	1.2	17
78	Comparison of Equilibrium Climate Sensitivity Estimates From Slab Ocean, 150â€Year, and Longer Simulations. Geophysical Research Letters, 2020, 47, e2020GL088852.	1.5	16
79	Impact of Mountains on Tropical Circulation in Two Earth System Models. Journal of Climate, 2017, 30, 4149-4163.	1.2	13
80	The rÃ1e of thermohaline circulation in climate. Tellus, Series B: Chemical and Physical Meteorology, 2022, 51, 91.	0.8	9
81	Time Scales of Terrestrial Carbon Response Related to Land-Use Application: Implications for Initializing an Earth System Model. Earth Interactions, 2011, 15, 1-16.	0.7	9
82	Role of Ocean Model Formulation in Climate Response Uncertainty. Journal of Climate, 2018, 31, 9313-9333.	1.2	9
83	The Mechanistic Role of the Central American Seaway in a GFDL Earth System Model. Part 1: Impacts on Global Ocean Mean State and Circulation. Paleoceanography and Paleoclimatology, 2018, 33, 840-859.	1.3	7
84	Future impact of today's choices. Nature Climate Change, 2012, 2, 397-398.	8.1	2