

# David Rind

## List of Publications by Year in descending order

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126  
papers

19,376  
citations

14614

66  
h-index

17055

122  
g-index

130  
all docs

130  
docs citations

130  
times ranked

13358  
citing authors

#	ARTICLE	IF	CITATIONS
1	Efficacy of climate forcings. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	1,104
2	Efficient Three-Dimensional Global Models for Climate Studies: Models I and II. <i>Monthly Weather Review</i> , 1983, 111, 609-662.	0.5	1,022
3	Does the ocean-atmosphere system have more than one stable mode of operation?. <i>Nature</i> , 1985, 315, 21-26.	13.7	998
4	Climate Impact of Increasing Atmospheric Carbon Dioxide. <i>Science</i> , 1981, 213, 957-966.	6.0	911
5	Present-Day Atmospheric Simulations Using GISS ModelE: Comparison to In Situ, Satellite, and Reanalysis Data. <i>Journal of Climate</i> , 2006, 19, 153-192.	1.2	832
6	Global climate changes as forecast by Goddard Institute for Space Studies three-dimensional model. <i>Journal of Geophysical Research</i> , 1988, 93, 9341-9364.	3.3	820
7	Solar Forcing of Regional Climate Change During the Maunder Minimum. <i>Science</i> , 2001, 294, 2149-2152.	6.0	688
8	Configuration and assessment of the GISS ModelE2 contributions to the CMIP5 archive. <i>Journal of Advances in Modeling Earth Systems</i> , 2014, 6, 141-184.	1.3	597
9	Solar Cycle Variability, Ozone, and Climate. <i>Science</i> , 1999, 284, 305-308.	6.0	524
10	Increased polar stratospheric ozone losses and delayed eventual recovery owing to increasing greenhouse-gas concentrations. <i>Nature</i> , 1998, 392, 589-592.	13.7	509
11	Climate-induced changes in forest disturbance and vegetation. <i>Nature</i> , 1990, 343, 51-53.	13.7	505
12	Atmospheric CO <sub>2</sub> : Principal Control Knob Governing Earth's Temperature. <i>Science</i> , 2010, 330, 356-359.	6.0	443
13	Terrestrial Conditions at the Last Glacial Maximum and CLIMAP Sea-Surface Temperature Estimates: Are They Consistent?. <i>Quaternary Research</i> , 1985, 24, 1-22.	1.0	418
14	Monsoon changes for 6000 years ago: Results of 18 simulations from the Paleoclimate Modeling Intercomparison Project (PMIP). <i>Geophysical Research Letters</i> , 1999, 26, 859-862.	1.5	374
15	A coupled atmosphere-ocean model for transient climate change studies. <i>Atmosphere - Ocean</i> , 1995, 33, 683-730.	0.6	297
16	A U.S. CLIVAR Project to Assess and Compare the Responses of Global Climate Models to Drought-Related SST Forcing Patterns: Overview and Results. <i>Journal of Climate</i> , 2009, 22, 5251-5272.	1.2	282
17	Climate Response Times: Dependence on Climate Sensitivity and Ocean Mixing. <i>Science</i> , 1985, 229, 857-859.	6.0	275
18	The Effect of Snow Cover on the Climate. <i>Journal of Climate</i> , 1991, 4, 689-706.	1.2	275

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19	The Sun's Role in Climate Variations. <i>Science</i> , 2002, 296, 673-677.	6.0	274
20	The impact of cold North Atlantic sea surface temperatures on climate: implications for the Younger Dryas cooling (11?10 k). <i>Climate Dynamics</i> , 1986, 1, 3-33.	1.7	268
21	GISSâ€œ2.1: Configurations and Climatology. <i>Journal of Advances in Modeling Earth Systems</i> , 2020, 12, e2019MS002025.	1.3	234
22	Climate simulations for 1880â€œ2003 with GISS modelE. <i>Climate Dynamics</i> , 2007, 29, 661-696.	1.7	227
23	An Efficient Approach to Modeling the Topographic Control of Surface Hydrology for Regional and Global Climate Modeling. <i>Journal of Climate</i> , 1997, 10, 118-137.	1.2	224
24	Glacial-Interglacial Changes in Moisture Sources for Greenland: Influences on the Ice Core Record of Climate. <i>Science</i> , 1994, 263, 508-511.	6.0	215
25	Climate Forcing by Changing Solar Radiation. <i>Journal of Climate</i> , 1998, 11, 3069-3094.	1.2	214
26	Dangerous human-made interference with climate: a GISS modelE study. <i>Atmospheric Chemistry and Physics</i> , 2007, 7, 2287-2312.	1.9	211
27	Change in climate variability in the 21st century. <i>Climatic Change</i> , 1989, 14, 5-37.	1.7	201
28	What determines the cloudâ€œtoâ€œground lightning fraction in thunderstorms?. <i>Geophysical Research Letters</i> , 1993, 20, 463-466.	1.5	200
29	The Impact of a 2 Ã— CO2Climate on Lightning-Caused Fires. <i>Journal of Climate</i> , 1994, 7, 1484-1494.	1.2	190
30	Climate Change and the Middle Atmosphere. Part I: The Doubled CO2Climate. <i>Journals of the Atmospheric Sciences</i> , 1990, 47, 475-494.	0.6	180
31	Hypothesized causes of decade-to-century-scale climate variability: Climate model results. <i>Quaternary Science Reviews</i> , 1993, 12, 357-374.	1.4	180
32	Global sources of local precipitation as determined by the Nasa/Giss GCM. <i>Geophysical Research Letters</i> , 1986, 13, 121-124.	1.5	177
33	Positive water vapour feedback in climate models confirmed by satellite data. <i>Nature</i> , 1991, 349, 500-503.	13.7	172
34	The Role of Sea Ice in 2Ã—CO2Climate Model Sensitivity. Part I: The Total Influence of Sea Ice Thickness and Extent. <i>Journal of Climate</i> , 1995, 8, 449-463.	1.2	168
35	Modeling Global Lightning Distributions in a General Circulation Model. <i>Monthly Weather Review</i> , 1994, 122, 1930-1939.	0.5	167
36	Complexity and Climate. <i>Science</i> , 1999, 284, 105-107.	6.0	167

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37	Hypothesized climate forcing time series for the last 500 years. <i>Journal of Geophysical Research</i> , 2001, 106, 14783-14803.	3.3	166
38	Possible role of dust-induced regional warming in abrupt climate change during the last glacial period. <i>Nature</i> , 1996, 384, 447-449.	13.7	163
39	The GISS Global Climate-Middle Atmosphere Model. Part I: Model Structure and Climatology. <i>Journals of the Atmospheric Sciences</i> , 1988, 45, 329-370.	0.6	159
40	Climatic effects of 1950–2050 changes in US anthropogenic aerosols – Part 1: Aerosol trends and radiative forcing. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 3333-3348.	1.9	157
41	Pangaeian climate during the Early Jurassic: GCM simulations and the sedimentary record of paleoclimate. <i>Bulletin of the Geological Society of America</i> , 1992, 104, 543.	1.6	149
42	Latitudinal temperature gradients and climate change. <i>Journal of Geophysical Research</i> , 1998, 103, 5943-5971.	3.3	148
43	Climatic effects of 1950–2050 changes in US anthropogenic aerosols – Part 2: Climate response. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 3349-3362.	1.9	136
44	Sensitivity of Asian and African climate to variations in seasonal insolation, glacial ice cover, sea surface temperature, and Asian orography. <i>Journal of Geophysical Research</i> , 1993, 98, 7265-7287.	3.3	134
45	CMIP5 historical simulations (1850–2012) with GISS ModelE2. <i>Journal of Advances in Modeling Earth Systems</i> , 2014, 6, 441-478.	1.3	133
46	A New Look at Stratospheric Sudden Warmings. Part II: Evaluation of Numerical Model Simulations. <i>Journal of Climate</i> , 2007, 20, 470-488.	1.2	129
47	Joint investigations of the middle Pliocene climate II: GISS GCM Northern Hemisphere results. <i>Global and Planetary Change</i> , 1994, 9, 197-219.	1.6	128
48	Climate change in the circum-North Atlantic region during the last deglaciation. <i>Nature</i> , 1989, 338, 553-557.	13.7	127
49	The Influence of Ground Moisture Conditions in North America on Summer Climate as Modeled in the GISS GCM. <i>Monthly Weather Review</i> , 1982, 110, 1487-1494.	0.5	117
50	Climate Change and the Middle Atmosphere. Part III: The Doubled CO <sub>2</sub> Climate Revisited. <i>Journal of Climate</i> , 1998, 11, 876-894.	1.2	112
51	Future climate change under RCP emission scenarios with GISS ModelE2. <i>Journal of Advances in Modeling Earth Systems</i> , 2015, 7, 244-267.	1.3	112
52	Global Patterns of Cloud Optical Thickness Variation with Temperature. <i>Journal of Climate</i> , 1992, 5, 1484-1495.	1.2	107
53	Modeling the Effects of UV Variability and the QBO on the Troposphere–Stratosphere System. Part I: The Middle Atmosphere. <i>Journal of Climate</i> , 1995, 8, 2058-2079.	1.2	104
54	SUN-CLIMATE CONNECTIONS: Earth's Response to a Variable Sun. <i>Science</i> , 2001, 292, 234-236.	6.0	101

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55	Coupled Aerosol-Chemistryâ€“Climate Twentieth-Century Transient Model Investigation: Trends in Short-Lived Species and Climate Responses. <i>Journal of Climate</i> , 2011, 24, 2693-2714.	1.2	98
56	The Relative Importance of Solar and Anthropogenic Forcing of Climate Change between the Maunder Minimum and the Present. <i>Journal of Climate</i> , 2004, 17, 906-929.	1.2	96
57	Exploring the stratospheric/tropospheric response to solar forcing. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	89
58	Comparison between SAGE II and ISCCP high-level clouds: 1. Global and zonal mean cloud amounts. <i>Journal of Geophysical Research</i> , 1995, 100, 1121-1135.	3.3	88
59	The Dynamics of Warm and Cold Climates. <i>Journals of the Atmospheric Sciences</i> , 1986, 43, 3-25.	0.6	81
60	Beryllium 10/beryllium 7 as a tracer of stratospheric transport. <i>Journal of Geophysical Research</i> , 1998, 103, 3907-3917.	3.3	80
61	Modelling the hydrological cycle in assessments of climate change. <i>Nature</i> , 1992, 358, 119-122.	13.7	78
62	Climatic effects of reduced Arctic sea ice limits in the Giss II General Circulation Model. <i>Paleoceanography</i> , 1990, 5, 367-382.	3.0	71
63	The Importance of Mesoscale Circulations Generated by Subgrid-Scale Landscape Heterogeneities in General Circulation Models. <i>Journal of Climate</i> , 1995, 8, 191-205.	1.2	70
64	Modeling the Effects of UV Variability and the QBO on the Troposphereâ€“Stratosphere System. Part II: The Troposphere. <i>Journal of Climate</i> , 1995, 8, 2080-2095.	1.2	70
65	Dependence of Warm and Cold Climate Depiction on Climate Model Resolution. <i>Journal of Climate</i> , 1988, 1, 965-997.	1.2	69
66	Climate Change and the Middle Atmosphere. Part II: The Impact of Volcanic Aerosols. <i>Journal of Climate</i> , 1992, 5, 189-208.	1.2	69
67	Use of on-line tracers as a diagnostic tool in general circulation model development: 2. Transport between the troposphere and stratosphere. <i>Journal of Geophysical Research</i> , 1999, 104, 9151-9167.	3.3	69
68	Response to CO2 Transient Increase in the GISS Coupled Model: Regional Coolings in a Warming Climate. <i>Journal of Climate</i> , 1999, 12, 531-539.	1.2	67
69	Irrigated afforestation of the Sahara and Australian Outback to end global warming. <i>Climatic Change</i> , 2009, 97, 409-437.	1.7	63
70	Relating paleoclimate data and past temperature gradients: Some suggestive rules. <i>Quaternary Science Reviews</i> , 2000, 19, 381-390.	1.4	60
71	Effects of glacial meltwater in the GISS coupled atmosphereocean model: 1. North Atlantic Deep Water response. <i>Journal of Geophysical Research</i> , 2001, 106, 27335-27353.	3.3	59
72	AO/NAO response to climate change: 1. Respective influences of stratospheric and tropospheric climate changes. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	58

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73	The GISS Global Climate-Middle Atmosphere Model. Part II. Model Variability Due to Interactions between Planetary Waves, the Mean Circulation and Gravity Wave Drag. <i>Journals of the Atmospheric Sciences</i> , 1988, 45, 371-386.	0.6	56
74	Climate Change and the Middle Atmosphere. Part IV: Ozone Response to Doubled CO <sub>2</sub> . <i>Journal of Climate</i> , 1998, 11, 895-918.	1.2	53
75	Radiative cooling by stratospheric water vapor: Big differences in GCM results. <i>Geophysical Research Letters</i> , 2001, 28, 2791-2794.	1.5	50
76	CMIP6 Historical Simulations (1850–2014) With GISS-E2.1. <i>Journal of Advances in Modeling Earth Systems</i> , 2021, 13, e2019MS002034.	1.3	49
77	Regional warming from aerosol removal over the United States: Results from a transient 2010–2050 climate simulation. <i>Atmospheric Environment</i> , 2012, 46, 545-553.	1.9	43
78	Interannual Variability of the Antarctic Ozone Hole in a GCM. Part I: The Influence of Tropospheric Wave Variability. <i>Journals of the Atmospheric Sciences</i> , 1997, 54, 2308-2319.	0.6	41
79	The Impact of Sea Ice Concentration Accuracies on Climate Model Simulations with the GISS GCM. <i>Journal of Climate</i> , 2001, 14, 2606-2623.	1.2	41
80	Effects of glacial meltwater in the GISS coupled atmosphere-ocean model: 2. A bipolar seesaw in Atlantic Deep Water production. <i>Journal of Geophysical Research</i> , 2001, 106, 27355-27365.	3.3	40
81	Heating of the lower thermosphere by the dissipation of acoustic waves. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 1977, 39, 445-456.	0.9	34
82	The Role of sea ice in 2 $\times$ CO <sub>2</sub> climate model sensitivity: Part II: Hemispheric dependencies. <i>Geophysical Research Letters</i> , 1997, 24, 1491-1494.	1.5	32
83	GISS Model E2.2: A Climate Model Optimized for the Middle Atmosphere—Model Structure, Climatology, Variability, and Climate Sensitivity. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2019JD032204.	1.2	32
84	The role of the stratosphere in climate change. <i>Surveys in Geophysics</i> , 1993, 14, 133-165.	2.1	31
85	Improved surface and boundary layer models for the Goddard Institute for Space Studies general circulation model. <i>Journal of Geophysical Research</i> , 1997, 102, 16407-16422.	3.3	31
86	The QBO in two GISS global climate models: 1. Generation of the QBO. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 8798-8824.	1.2	31
87	Isotopic responses to interannual climate variability simulated by an atmospheric general circulation model. <i>Quaternary Science Reviews</i> , 1993, 12, 387-406.	1.4	30
88	Investigation of the lower thermosphere results of ten years of continuous observations with natural infrasound. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 1978, 40, 1199-1209.	0.9	29
89	Seasonal Precipitation Timing and Ice Core Records. <i>Science</i> , 1995, 269, 247-248.	6.0	27
90	The Consequences of Not Knowing Low- and High-Latitude Climate Sensitivity. <i>Bulletin of the American Meteorological Society</i> , 2008, 89, 855-864.	1.7	27

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91	Climate change and the middle atmosphere: 5. Paleostratosphere in cold and warm climates. Journal of Geophysical Research, 2001, 106, 20195-20212.	3.3	26
92	Sensitivity of present and future surface temperatures to precipitation characteristics. Climate Research, 2004, 28, 53-65.	0.4	26
93	Interactive nature of climate change and aerosol forcing. Journal of Geophysical Research D: Atmospheres, 2017, 122, 3457-3480.	1.2	25
94	GCM Simulations of Volcanic Aerosol Forcing. Part I: Climate Changes Induced by Steady-State Perturbations. Journal of Climate, 1993, 6, 1719-1742.	1.2	24
95	Sensitivity of tracer transports and stratospheric ozone to sea surface temperature patterns in the doubled CO <sub>2</sub> climate. Journal of Geophysical Research, 2002, 107, ACL 25-1.	3.3	24
96	Future Climate Change Under SSP Emission Scenarios With GISS-E2.1. Journal of Advances in Modeling Earth Systems, 2022, 14, .	1.3	22
97	Influence of the latitudinal temperature gradient on soil dust concentration and deposition in Greenland. Journal of Geophysical Research, 2000, 105, 7199-7212.	3.3	21
98	Puzzles from the tropics. Nature, 1990, 346, 317-318.	13.7	19
99	Potential effects of cloud optical thickness on climate warming. Nature, 1993, 366, 670-672.	13.7	19
100	Multicentury Instability of the Atlantic Meridional Circulation in Rapid Warming Simulations With GISS ModelE2. Journal of Geophysical Research D: Atmospheres, 2018, 123, 6331-6355.	1.2	19
101	Swiss glacier recession since the Little Ice Age: Reconciliation with climate records. Geophysical Research Letters, 1999, 26, 1909-1912.	1.5	18
102	Climate Variability and Climate Change. Developments in Atmospheric Science, 1991, 19, 69-78.	0.3	17
103	Climatic Effects of Atmospheric Carbon Dioxide. Science, 1983, 220, 874-875.	6.0	16
104	Tropical cooling and the isotopic composition of precipitation in general circulation model simulations of the ice age climate. Climate Dynamics, 2001, 17, 489-502.	1.7	16
105	The dry stratosphere: A limit on cometary water influx. Geophysical Research Letters, 1998, 25, 1649-1652.	1.5	15
106	Modelling the future: a joint venture. Nature, 1988, 334, 483-486.	13.7	14
107	GISS Model E2.2: A Climate Model Optimized for the Middle Atmosphere <sup>2</sup> . Validation of Large-Scale Transport and Evaluation of Climate Response. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2020JD033151.	1.2	14
108	Wonderland climate model. Journal of Geophysical Research, 1997, 102, 6823-6830.	3.3	13

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109	Dynamical and Trace Gas Responses of the Quasi-Biennial Oscillation to Increased CO <sub>2</sub> . Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD034151.	1.2	11
110	THE ROLE OF MOISTURE TRANSPORT BETWEEN GROUND AND ATMOSPHERE IN GLOBAL CHANGE. Annual Review of Environment and Resources, 1997, 22, 47-74.	1.2	10
111	A preliminary zonal mean climatology of water vapour in the stratosphere and mesosphere. Advances in Space Research, 1998, 21, 1417-1420.	1.2	10
112	Testing GISS-MM5 physics configurations for use in regional impacts studies. Climatic Change, 2010, 99, 567-587.	1.7	9
113	Interannual Variability of the Antarctic Ozone Hole in a GCM. Part II: A Comparison of Unforced and QBO-Induced Variability. Journals of the Atmospheric Sciences, 1999, 56, 1873-1884.	0.6	8
114	Teleconnections in a warmer climate: the pliocene perspective. Climate Dynamics, 2011, 37, 1869-1887.	1.7	8
115	Comment on S. H. Schneider's editorial 'can modeling of the ancient past verify prediction of future climates?'. Climatic Change, 1986, 9, 357-360.	1.7	7
116	Tidal wind control of long-range rocket infrasound. Journal of Geophysical Research, 1975, 80, 1662-1664.	3.3	6
117	Climate responses to SATIRE and SIM-based spectral solar forcing in a 3D atmosphere-ocean coupled GCM. Journal of Space Weather and Space Climate, 2017, 7, A11.	1.1	5
118	Response of the Quasi-Biennial Oscillation to Historical Volcanic Eruptions. Geophysical Research Letters, 2021, 48, e2021GL095412.	1.5	5
119	An uplifting experience. Nature, 1992, 360, 414-415.	13.7	4
120	Estimating Solar Forcing of Climate Change during the Maunder Minimum. International Astronomical Union Colloquium, 1994, 143, 236-243.	0.1	3
121	GCM Hindcasts of SST Forced Climate Variability over Agriculturally Intensive Regions. Climatic Change, 2000, 45, 279-322.	1.7	3
122	Probing the atmosphere with infrasound. Physics Teacher, 1979, 17, 102-108.	0.2	0
123	Reply to Rasool. Climatic Change, 1983, 5, 203-204.	1.7	0
124	Sea-level effects due to long-term climate change as estimated from global climate models. Geophysical Journal International, 1986, 87, 117-118.	1.0	0
125	Supplement to The Consequences of not Knowing Low- High-Latitude Climate Sensitivity. Bulletin of the American Meteorological Society, 2008, 89, ES24-ES35.	1.7	0
126	Relationship Between Midstratospheric Temperatures and Tropospheric Synoptic Features1. Monthly Weather Review, 1973, 101, 475-485.	0.5	0