Gary L Russell

List of Publications by Year
in descending order

73	12,597	87888 38	85541 71
papers	citations	h-index	g-index

78	78	78	10660
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The role of long-lived greenhouse gases as principal LW control knob that governs the global surface temperature for past and future climate change. Tellus, Series B: Chemical and Physical Meteorology, 2022, 65, 19734.	1.6	30
2	Future Climate Change Under SSP Emission Scenarios With GISSâ€E2.1. Journal of Advances in Modeling Earth Systems, 2022, 14, .	3.8	22
3	Unique Observational Constraints on the Seasonal and Longitudinal Variability of the Earthâ€™s Planetary Albedo and Cloud Distribution Inferred From EPIC Measurements. Frontiers in Remote Sensing, 2022, 2, .	3.5	1
4	CMIP6 Historical Simulations (1850â€“2014) With GISSâ€E2.1. Journal of Advances in Modeling Earth Systems, 2021, 13, e2019MS002034.	3.8	49
5	Drivers of Airâ€Sea CO₂ Flux Seasonality and its Longâ€Term Changes in the NASAâ€GISS Model CMIP6 Submission. Journal of Advances in Modeling Earth Systems, 2021, 13, e2019MS002028.	3.8	9
6	Global Carbon Cycle and Climate Feedbacks in the NASA GISS ModelE2.1. Journal of Advances in Modeling Earth Systems, 2020, 12, e2019MS002030.	3.8	15
7	GISSâ€E2.1: Configurations and Climatology. Journal of Advances in Modeling Earth Systems, 2020, 12, e2019MS002025.	3.8	234
8	Antarctic Glacial Melt as a Driver of Recent Southern Ocean Climate Trends. Geophysical Research Letters, 2020, 47, e2019GL086892.	4.0	34
9	GISS Model E2.2: A Climate Model Optimized for the Middle Atmosphereâ€”Model Structure, Climatology, Variability, and Climate Sensitivity. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2019JD032204.	3.3	32
10	Symmetric equations on the surface of a sphere as used by model GISS:IB. Geoscientific Model Development, 2018, 11, 4637-4656.	3.6	1
11	Young people's burden: requirement of negative CO₂ emissions. Earth System Dynamics, 2017, 8, 577-616.	7.1	189
12	The tropical rain belts with an annual cycle and a continent model intercomparison project: TRACMIP. Journal of Advances in Modeling Earth Systems, 2016, 8, 1868-1891.	3.8	47
13	Ice melt, sea level rise and superstorms: evidence from paleoclimate data, climate modeling, and modern observations that 2 Â°C global warming could be dangerous. Atmospheric Chemistry and Physics, 2016, 16, 3761-3812.	4.9	421
14	Future climate change under RCP emission scenarios with GISS <scp>M</scp>odelE2. Journal of Advances in Modeling Earth Systems, 2015, 7, 244-267.	3.8	112
15	CMIP5 historical simulations (1850â€“2012) with GISS ModelE2. Journal of Advances in Modeling Earth Systems, 2014, 6, 441-478.	3.8	133
16	Configuration and assessment of the GISS ModelE2 contributions to the CMIP5 archive. Journal of Advances in Modeling Earth Systems, 2014, 6, 141-184.	3.8	597
17	Natural airâ€“sea flux of CO2 in simulations of the NASA-GISS climate model: Sensitivity to the physical ocean model formulation. Ocean Modelling, 2013, 66, 26-44.	2.4	27
18	Climate sensitivity, sea level and atmospheric carbon dioxide. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2013, 371, 20120294.	3.4	429

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19	Fast atmosphereâ€ocean model runs with large changes in CO₂. Geophysical Research Letters, 2013, 40, 5787-5792.	4.0	24
20	Projected regime shift in Arctic cloud and water vapor feedbacks. Environmental Research Letters, 2011, 6, 044007.	5.2	20
21	Using a global climate model to evaluate the influences of water vapor, snow cover and atmospheric aerosol on warming in the Tibetan Plateau during the twenty-first century. Climate Dynamics, 2010, 34, 859-872.	3.8	130
22	Climate change and trace gases. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2007, 365, 1925-1954.	3.4	323
23	Dangerous human-made interference with climate: a GISS modelE study. Atmospheric Chemistry and Physics, 2007, 7, 2287-2312.	4.9	211
24	Step-Mountain Technique Applied to an Atmospheric C-Grid Model, or How to Improve Precipitation near Mountains. Monthly Weather Review, 2007, 135, 4060-4076.	1.4	12
25	Modeling changes in summer temperature of the Fraser River during the next century. Journal of Hydrology, 2007, 342, 336-346.	5.4	65
26	Future regime shift in feedbacks during Arctic winter. Geophysical Research Letters, 2007, 34, .	4.0	10
27	Climate simulations for 1880â€“2003 with GISS modelE. Climate Dynamics, 2007, 29, 661-696.	3.8	227
28	Analysis of global climate model experiments to elucidate past and future changes in surface insolation and warming in China. Geophysical Research Letters, 2006, 33, .	4.0	4
29	Present-Day Atmospheric Simulations Using GISS ModelE: Comparison to In Situ, Satellite, and Reanalysis Data. Journal of Climate, 2006, 19, 153-192.	3.2	832
30	Amplification of Surface Temperature Trends and Variability in the Tropical Atmosphere. Science, 2005, 309, 1551-1556.	12.6	267
31	Earth's Energy Imbalance: Confirmation and Implications. Science, 2005, 308, 1431-1435.	12.6	728
32	Efficacy of climate forcings. Journal of Geophysical Research, 2005, 110, .	3.3	1,104
33	Sensitivity of sea ice to physical parameterizations in the GISS global climate model. Journal of Geophysical Research, 2003, 108, n/a-n/a.	3.3	33
34	Observed and modeled relationships among Arctic climate variables. Journal of Geophysical Research, 2003, 108, n/a-n/a.	3.3	16
35	Projected Impact of Climate Change on the Energy Budget of the Arctic Ocean by a Global Climate Model. Journal of Climate, 2002, 15, 3028-3042.	3.2	10
36	Detecting time variations in gravity associated with climate change. Journal of Geophysical Research, 2002, 107, ETG 3-1.	3.3	6

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37	Comparison of mean climate trends in the Northern Hemisphere between National Centers for Environmental Prediction and two atmosphere-ocean model forced runs. Journal of Geophysical Research, 2002, 107, ACL 7-1.	3.3	41
38	Are stronger North-Atlantic southwesterlies the forcing to the late-winter warming in Europe?. International Journal of Climatology, 2002, 22, 743-750.	3.5	8
39	Effects of glacial meltwater in the GISS coupled atmosphereocean model: 1. North Atlantic Deep Water response. Journal of Geophysical Research, 2001, 106, 27335-27353.	3.3	59
40	Comparing GCM-generated land surface water budgets using a simple common framework. Water Science and Application, 2001, , 95-105.	0.3	3
41	Comparison of model and observed regional temperature changes during the past 40 years. Journal of Geophysical Research, 2000, 105, 14891-14898.	3.3	86
42	Projected impact of climate change on the freshwater and salt budgets of the Arctic Ocean by a global climate model. Geophysical Research Letters, 2000, 27, 1183-1186.	4.0	38
43	Modeling the effect of wetlands, flooding, and irrigation on river flow: Application to the Aral Sea. Water Resources Research, 1999, 35, 1869-1876.	4.2	13
44	Forcings and chaos in interannual to decadal climate change. Journal of Geophysical Research, 1997, 102, 25679-25720.	3.3	164
45	Investigating the interactions among river flow, salinity and sea ice using a global coupled atmosphereâ€"oceanâ€"ice model. Annals of Glaciology, 1997, 25, 121-126.	1.4	2
46	Investigating the interactions among river flow, salinity and sea ice using a global coupled atmosphereâ€"oceanâ€"ice model. Annals of Glaciology, 1997, 25, 121-126.	1.4	7
47	The Effects of Uplift on Ocean-Atmosphere Circulation. , 1997, , 123-147.		9
48	Impacts of model improvements on general circulation model sensitivity to sea-surface temperature forcing. International Journal of Climatology, 1995, 15, 1061-1086.	3.5	8
49	High latitude river runoff in a doubled CO2 climate. Climatic Change, 1995, 30, 7-26.	3.6	13
50	Climate change and the Arctic hydrologic cycle as calculated by a global coupled atmosphereâ€“ocean model. Annals of Glaciology, 1995, 21, 91-95.	1.4	6
51	A coupled atmosphereâ€ocean model for transient climate change studies. Atmosphere - Ocean, 1995, 33, 683-730.	1.6	297
52	Continental-Scale River Flow in Climate Models. Journal of Climate, 1994, 7, 914-928.	3.2	218
53	Stable water isotope behavior during the last glacial maximum: A general circulation model analysis. Journal of Geophysical Research, 1994, 99, 25791.	3.3	150
54	The impact of global warming on river runoff. Journal of Geophysical Research, 1992, 97, 2757-2764.	3.3	180

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55	Origin of July Antarctic precipitation and its influence on deuterium content: a GCM analysis. Climate Dynamics, 1992, 7, 195-203.	3.8	62
56	The magnitude of global fresh-water transports of importance to ocean circulation. Climate Dynamics, 1990, 4, 73-79.	3.8	75
57	Oceanic freshwater transport during the Last Glacial Maximum. Paleoceanography, 1990, 5, 397-407.	3.0	15
58	Global river runoff calculated from a global atmospheric general circulation model. Journal of Hydrology, 1990, 117, 241-254.	5.4	101
59	Seasonal oceanic heat transports computed from an atmospheric model and ocean temperature climatology. Dynamics of Atmospheres and Oceans, 1989, 14, 77-92.	1.8	4
60	The global geochemistry of bombâ€produced tritium: General circulation model compared to available observations and traditional interpretations. Journal of Geophysical Research, 1989, 94, 18305-18326.	3.3	30
61	Ocean heat transport during the Last Glacial Maximum. Paleoceanography, 1989, 4, 141-155.	3.0	22
62	Global climate changes as forecast by Goddard Institute for Space Studies threeâ€dimensional model. Journal of Geophysical Research, 1988, 93, 9341-9364.	3.3	820
63	The GISS Global Climate-Middle Atmosphere Model. Part I: Model Structure and Climatology. Journals of the Atmospheric Sciences, 1988, 45, 329-370.	1.7	159
64	Global sources of local precipitation as determined by the Nasa/Giss GCM. Geophysical Research Letters, 1986, 13, 121-124.	4.0	177
65	Climate Response Times: Dependence on Climate Sensitivity and Ocean Mixing. Science, 1985, 229, 857-859.	12.6	275
66	Seasonal oceanic heat transports computed from an atmospheric model. Dynamics of Atmospheres and Oceans, 1985, 9, 253-271.	1.8	62
67	Climate sensitivity: Analysis of feedback mechanisms. Geophysical Monograph Series, 1984, , 130-163.	0.1	791
68	Reply to Rasool. Climatic Change, 1983, 5, 203-204.	3.6	0
69	Annual oceanic heat transports computed from an atmospheric model. Dynamics of Atmospheres and Oceans, 1983, 7, 95-109.	1.8	39
70	Efficient Three-Dimensional Global Models for Climate Studies: Models I and II. Monthly Weather Review, 1983, 111, 609-662.	1.4	1,022
71	Atmospheric general circulation model simulations with an interactive ocean: Effects of sea surface temperature anomalies in the arabian sea. Atmosphere - Ocean, 1983, 21, 94-106.	1.6	13
72	A New Finite-Differencing Scheme for the Tracer Transport Equation. Journal of Applied Meteorology, 1981, 20, 1483-1498.	1.1	250

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73	Climate Impact of Increasing Atmospheric Carbon Dioxide. Science, 1981, 213, 957-966.	12.6	911