

# Ron L Miller

## List of Publications by Year in descending order

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74  
papers

11,664  
citations

47006

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79698

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95  
all docs

95  
docs citations

95  
times ranked

10291  
citing authors

#	ARTICLE	IF	CITATIONS
1	Future Climate Change Under SSP Emission Scenarios With GISSâ€E2.1. Journal of Advances in Modeling Earth Systems, 2022, 14, .	3.8	22
2	CMIP6 Historical Simulations (1850â€“2014) With GISSâ€E2.1. Journal of Advances in Modeling Earth Systems, 2021, 13, e2019MS002034.	3.8	49
3	Quantifying the range of the dust direct radiative effect due to source mineralogy uncertainty. Atmospheric Chemistry and Physics, 2021, 21, 3973-4005.	4.9	47
4	Improved representation of the global dust cycle using observational constraints on dust properties and abundance. Atmospheric Chemistry and Physics, 2021, 21, 8127-8167.	4.9	65
5	Contribution of the world's main dust source regions to the global cycle of desert dust. Atmospheric Chemistry and Physics, 2021, 21, 8169-8193.	4.9	126
6	Mineral dust cycle in the Multiscale Online Nonhydrostatic Atmosphere Chemistry model (MONARCH) Version 2.0. Geoscientific Model Development, 2021, 14, 6403-6444.	3.6	35
7	Historical (1850â€“2014) Aerosol Evolution and Role on Climate Forcing Using the GISS ModelE2.1 Contribution to CMIP6. Journal of Advances in Modeling Earth Systems, 2020, 12, e2019MS001978.	3.8	69
8	GISSâ€E2.1: Configurations and Climatology. Journal of Advances in Modeling Earth Systems, 2020, 12, e2019MS002025.	3.8	234
9	The Earth Surface Mineral Dust Source Investigation: An Earth Science Imaging Spectroscopy Mission. , 2020, , .		26
10	Effective radiative forcing and adjustments in CMIP6 models. Atmospheric Chemistry and Physics, 2020, 20, 9591-9618.	4.9	149
11	Internal Variability and Disequilibrium Confound Estimates of Climate Sensitivity From Observations. Geophysical Research Letters, 2018, 45, 1595-1601.	4.0	42
12	Multicentury Instability of the Atlantic Meridional Circulation in Rapid Warming Simulations With GISS ModelE2. Journal of Geophysical Research D: Atmospheres, 2018, 123, 6331-6355.	3.3	19
13	Assessing the impact of large volcanic eruptions of the last millennium (850â€“1850â€‰%CE) on Australian rainfall regimes. Climate of the Past, 2018, 14, 811-824.	3.4	6
14	Smaller desert dust cooling effect estimated from analysis of dust size and abundance. Nature Geoscience, 2017, 10, 274-278.	12.9	306
15	Revisiting the observed correlation between weekly averaged Indian monsoon precipitation and Arabian Sea aerosol optical depth. Geophysical Research Letters, 2017, 44, 10006-10016.	4.0	20
16	Predicting the mineral composition of dust aerosols: Insights from elemental composition measured at the Izaña Observatory. Geophysical Research Letters, 2016, 43, 10520-10529.	4.0	29
17	Significant atmospheric aerosol pollution caused by world food cultivation. Geophysical Research Letters, 2016, 43, 5394-5400.	4.0	155
18	Implications for climate sensitivity from the response to individual forcings. Nature Climate Change, 2016, 6, 386-389.	18.8	94

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19	Predicting the mineral composition of dust aerosols â€” Part 1: Representing key processes. Atmospheric Chemistry and Physics, 2015, 15, 11593-11627.	4.9	98
20	Predicting the mineral composition of dust aerosols â€” Part 2: Model evaluation and identification of key processes with observations. Atmospheric Chemistry and Physics, 2015, 15, 11629-11652.	4.9	52
21	Future climate change under RCP emission scenarios with GISS <sc>M</sc>odelE2. Journal of Advances in Modeling Earth Systems, 2015, 7, 244-267.	3.8	112
22	Soil Dust Aerosols and Wind as Predictors of Seasonal Meningitis Incidence in Niger. Environmental Health Perspectives, 2014, 122, 679-686.	6.0	111
23	CMIP5 historical simulations (1850â€”2012) with GISS ModelE2. Journal of Advances in Modeling Earth Systems, 2014, 6, 441-478.	3.8	133
24	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
25	Impact of Dust Radiative Forcing upon Climate. , 2014, , 327-357.		61
26	Intensification of North American Megadroughts through Surface and Dust Aerosol Forcing*. Journal of Climate, 2013, 26, 4414-4430.	3.2	44
27	Atmospheric dust modeling from meso to global scales with the online NMMB/BSC-Dust model â€” Part 2: Experimental campaigns in Northern Africa. Atmospheric Chemistry and Physics, 2012, 12, 2933-2958.	4.9	87
28	Adjustment to Radiative Forcing in a Simple Coupled Oceanâ€”Atmosphere Model. Journal of Climate, 2012, 25, 7802-7821.	3.2	11
29	The impact of devegetated dune fields on North American climate during the late Medieval Climate Anomaly. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	10
30	Atmospheric dust modeling from meso to global scales with the online NMMB/BSC-Dust model â€” Part 1: Model description, annual simulations and evaluation. Atmospheric Chemistry and Physics, 2011, 11, 13001-13027.	4.9	198
31	Global dust model intercomparison in AeroCom phase I. Atmospheric Chemistry and Physics, 2011, 11, 7781-7816.	4.9	839
32	Atmospheric circulation anomalies during two persistent north american droughts: 1932â€”1939 and 1948â€”1957. Climate Dynamics, 2011, 36, 2339-2355.	3.8	70
33	Forced and unforced variability of twentieth century North American droughts and pluvials. Climate Dynamics, 2011, 37, 1097-1110.	3.8	44
34	On the Causes and Dynamics of the Early Twentieth-Century North American Pluvial. Journal of Climate, 2011, 24, 5043-5060.	3.2	46
35	Coupled Aerosol-Chemistryâ€”Climate Twentieth-Century Transient Model Investigation: Trends in Short-Lived Species and Climate Responses. Journal of Climate, 2011, 24, 2693-2714.	3.2	98
36	Interactions between Mineral Dust, Climate, and Ocean Ecosystems. Elements, 2010, 6, 247-252.	0.5	35

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37	Cloud cover increase with increasing aerosol absorptivity: A counterexample to the conventional semidirect aerosol effect. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	67
38	Attribution of the present-day total greenhouse effect. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	158
39	Amplification of the North American "Dust Bowl" drought through human-induced land degradation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 4997-5001.	7.1	284
40	Seasonal contrast in the surface energy balance of the Sahel. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	23
41	Evaluation of black carbon estimations in global aerosol models. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 9001-9026.	4.9	585
42	Dust and sea surface temperature forcing of the 1930s "Dust Bowl" drought. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	66
43	Abrupt Seasonal Migration of the ITCZ into the Summer Hemisphere. <i>Journals of the Atmospheric Sciences</i> , 2008, 65, 1878-1895.	1.7	25
44	Dangerous human-made interference with climate: a GISS modelE study. <i>Atmospheric Chemistry and Physics</i> , 2007, 7, 2287-2312.	4.9	211
45	Climate response to projected changes in short-lived species under an A1B scenario from 2000-2050 in the GISS climate model. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	40
46	Climate simulations for 1880-2003 with GISS modelE. <i>Climate Dynamics</i> , 2007, 29, 661-696.	3.8	227
47	Constraining the magnitude of the global dust cycle by minimizing the difference between a model and observations. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	171
48	Mineral dust aerosols in the NASA Goddard Institute for Space Sciences ModelE atmospheric general circulation model. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	187
49	Forced annular variations in the 20th century Intergovernmental Panel on Climate Change Fourth Assessment Report models. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	311
50	Simulations of preindustrial, present-day, and 2100 conditions in the NASA GISS composition and climate model G-PUCCINI. <i>Atmospheric Chemistry and Physics</i> , 2006, 6, 4427-4459.	4.9	149
51	Solar and anthropogenic forcing of tropical hydrology. <i>Geophysical Research Letters</i> , 2006, 33, .	4.0	89
52	Consistent simulations of multiple proxy responses to an abrupt climate change event. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 837-842.	7.1	168
53	Present-Day Atmospheric Simulations Using GISS ModelE: Comparison to In Situ, Satellite, and Reanalysis Data. <i>Journal of Climate</i> , 2006, 19, 153-192.	3.2	832
54	Efficacy of climate forcings. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	1,104

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55	Incorporating the effect of small-scale circulations upon dust emission in an atmospheric general circulation model. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	122
56	Surface radiative forcing by soil dust aerosols and the hydrologic cycle. <i>Journal of Geophysical Research</i> , 2004, 109, n/a-n/a.	3.3	321
57	Modeling Arabian dust mobilization during the Asian summer monsoon: The effect of prescribed versus calculated SST. <i>Geophysical Research Letters</i> , 2004, 31, .	4.0	32
58	Feedback upon dust emission by dust radiative forcing through the planetary boundary layer. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	108
59	General circulation modelling of Holocene climate variability. <i>Quaternary Science Reviews</i> , 2004, 23, 2167-2181.	3.0	45
60	Volcanic and Solar Forcing of Climate Change during the Preindustrial Era. <i>Journal of Climate</i> , 2003, 16, 4094-4107.	3.2	230
61	Exploring the Structure of Regional Climate Scenarios by Combining Synoptic and Dynamic Guidance and GCM Output. <i>Journal of Climate</i> , 2002, 15, 1036-1050.	3.2	22
62	A comparison of seasonal and interannual variability of soil dust aerosols over the Atlantic Ocean as inferred by the TOMS AI and AVHRR AOT retrievals. <i>Journal of Geophysical Research</i> , 2001, 106, 18287-18303.	3.3	51
63	Northern hemisphere winter climate response to greenhouse gas, ozone, solar, and volcanic forcing. <i>Journal of Geophysical Research</i> , 2001, 106, 7193-7210.	3.3	260
64	Interactive soil dust aerosol model in the GISS GCM: 1. Sensitivity of the soil dust cycle to radiative properties of soil dust aerosols. <i>Journal of Geophysical Research</i> , 2001, 106, 18167-18192.	3.3	125
65	Simulation of recent northern winter climate trends by greenhouse-gas forcing. <i>Nature</i> , 1999, 399, 452-455.	27.8	489
66	Radiative Forcing of a Tropical Direct Circulation by Soil Dust Aerosols. <i>Journals of the Atmospheric Sciences</i> , 1999, 56, 2403-2433.	1.7	55
67	A general circulation model study on the interannual variability of soil dust aerosol. <i>Journal of Geophysical Research</i> , 1998, 103, 25975-25995.	3.3	102
68	Climate Response to Soil Dust Aerosols. <i>Journal of Climate</i> , 1998, 11, 3247-3267.	3.2	471
69	Tropical Thermostats and Low Cloud Cover. <i>Journal of Climate</i> , 1997, 10, 409-440.	3.2	130
70	Forcings and chaos in interannual to decadal climate change. <i>Journal of Geophysical Research</i> , 1997, 102, 25679-25720.	3.3	164
71	Surface Energy Fluxes and Coupled Variability in the Tropics of a Coupled General Circulation Model. <i>Journal of Climate</i> , 1996, 9, 1599-1620.	3.2	16
72	Tropical Cloud Feedbacks and Natural Variability of Climate. <i>Journal of Climate</i> , 1994, 7, 1388-1402.	3.2	14

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73	Viscous destabilization of stratified shear flow for $Ri > 1/4$ . Geophysical and Astrophysical Fluid Dynamics, 1988, 42, 49-91.	1.2	7
74	Motions in the Interiors and atmospheres of Jupiter and Saturn. Icarus, 1986, 65, 370-382.	2.5	20