Ron L Miller

List of Publications by Year
in descending order

74 papers	11,664 citations	46918 47 h-index	79541 73 g-index
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, .	1.3	22
2	CMIP6 Historical Simulations (1850â€“2014) With GISSâ€E2.1. Journal of Advances in Modeling Earth Systems, 2021, 13, e2019MS002034.	1.3	49
3	Quantifying the range of the dust direct radiative effect due to source mineralogy uncertainty. Atmospheric Chemistry and Physics, 2021, 21, 3973-4005.	1.9	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.	1.9	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.	1.9	126
6	Mineral dust cycle in the Multiscale Online Nonhydrostatic AtmospheRe CHemistry model (MONARCH) Version 2.0. Geoscientific Model Development, 2021, 14, 6403-6444.	1.3	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.	1.3	69
8	GISSâ€E2.1: Configurations and Climatology. Journal of Advances in Modeling Earth Systems, 2020, 12, e2019MS002025.	1.3	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.	1.9	149
11	Internal Variability and Disequilibrium Confound Estimates of Climate Sensitivity From Observations. Geophysical Research Letters, 2018, 45, 1595-1601.	1.5	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.	1.2	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.	1.3	6
14	Smaller desert dust cooling effect estimated from analysis of dust size and abundance. Nature Geoscience, 2017, 10, 274-278.	5.4	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.	1.5	20
16	Predicting the mineral composition of dust aerosols: Insights from elemental composition measured at the IzaÃ±a Observatory. Geophysical Research Letters, 2016, 43, 10520-10529.	1.5	29
17	Significant atmospheric aerosol pollution caused by world food cultivation. Geophysical Research Letters, 2016, 43, 5394-5400.	1.5	155
18	Implications for climate sensitivity from the response to individual forcings. Nature Climate Change, 2016, 6, 386-389.	8.1	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.	1.9	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.	1.9	52
21	Future climate change under RCP emission scenarios with GISS <scp>M</scp>odelE2. Journal of Advances in Modeling Earth Systems, 2015, 7, 244-267.	1.3	112
22	Soil Dust Aerosols and Wind as Predictors of Seasonal Meningitis Incidence in Niger. Environmental Health Perspectives, 2014, 122, 679-686.	2.8	111
23	CMIP5 historical simulations (1850â€“2012) with GISS ModelE2. Journal of Advances in Modeling Earth Systems, 2014, 6, 441-478.	1.3	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.	1.3	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.	1.2	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.	1.9	87
28	Adjustment to Radiative Forcing in a Simple Coupled Oceanâ€“Atmosphere Model. Journal of Climate, 2012, 25, 7802-7821.	1.2	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.	1.5	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.	1.9	198
31	Global dust model intercomparison in AeroCom phase I. Atmospheric Chemistry and Physics, 2011, 11, 7781-7816.	1.9	839
32	Atmospheric circulation anomalies during two persistent north american droughts: 1932â€“1939 and 1948â€“1957. Climate Dynamics, 2011, 36, 2339-2355.	1.7	70
33	Forced and unforced variability of twentieth century North American droughts and pluvials. Climate Dynamics, 2011, 37, 1097-1110.	1.7	44
34	On the Causes and Dynamics of the Early Twentieth-Century North American Pluvial. Journal of Climate, 2011, 24, 5043-5060.	1.2	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.	1.2	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. Journal of Geophysical Research, 2010, 115, .	3.3	67
38	Attribution of the presentâ€day total greenhouse effect. Journal of Geophysical Research, 2010, 115, .	3.3	158
39	Amplification of the North American â€œDust Bowlâ€•drought through human-induced land degradation. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 4997-5001.	3.3	284
40	Seasonal contrast in the surface energy balance of the Sahel. Journal of Geophysical Research, 2009, 114, .	3.3	23
41	Evaluation of black carbon estimations in global aerosol models. Atmospheric Chemistry and Physics, 2009, 9, 9001-9026.	1.9	585
42	Dust and sea surface temperature forcing of the 1930s â€œDust Bowlâ€•drought. Geophysical Research Letters, 2008, 35, .	1.5	66
43	Abrupt Seasonal Migration of the ITCZ into the Summer Hemisphere. Journals of the Atmospheric Sciences, 2008, 65, 1878-1895.	0.6	25
44	Dangerous human-made interference with climate: a GISS modelE study. Atmospheric Chemistry and Physics, 2007, 7, 2287-2312.	1.9	211
45	Climate response to projected changes in shortâ€lived species under an A1B scenario from 2000â€“2050 in the GISS climate model. Journal of Geophysical Research, 2007, 112, .	3.3	40
46	Climate simulations for 1880â€“2003 with GISS modelE. Climate Dynamics, 2007, 29, 661-696.	1.7	227
47	Constraining the magnitude of the global dust cycle by minimizing the difference between a model and observations. Journal of Geophysical Research, 2006, 111, .	3.3	171
48	Mineral dust aerosols in the NASA Goddard Institute for Space Sciences ModelE atmospheric general circulation model. Journal of Geophysical Research, 2006, 111, .	3.3	187
49	Forced annular variations in the 20th century Intergovernmental Panel on Climate Change Fourth Assessment Report models. Journal of Geophysical Research, 2006, 111, .	3.3	311
50	Simulations of preindustrial, present-day, and 2100 conditions in the NASA GISS composition and climate model G-PUCCINI. Atmospheric Chemistry and Physics, 2006, 6, 4427-4459.	1.9	149
51	Solar and anthropogenic forcing of tropical hydrology. Geophysical Research Letters, 2006, 33, .	1.5	89
52	Consistent simulations of multiple proxy responses to an abrupt climate change event. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 837-842.	3.3	168
53	Present-Day Atmospheric Simulations Using GISS ModelE: Comparison to In Situ, Satellite, and Reanalysis Data. Journal of Climate, 2006, 19, 153-192.	1.2	832
54	Efficacy of climate forcings. Journal of Geophysical Research, 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. Journal of Geophysical Research, 2004, 109, .	3.3	122
56	Surface radiative forcing by soil dust aerosols and the hydrologic cycle. Journal of Geophysical Research, 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. Geophysical Research Letters, 2004, 31, .	1.5	32
58	Feedback upon dust emission by dust radiative forcing through the planetary boundary layer. Journal of Geophysical Research, 2004, 109, .	3.3	108
59	General circulation modelling of Holocene climate variability. Quaternary Science Reviews, 2004, 23, 2167-2181.	1.4	45
60	Volcanic and Solar Forcing of Climate Change during the Preindustrial Era. Journal of Climate, 2003, 16, 4094-4107.	1.2	230
61	Exploring the Structure of Regional Climate Scenarios by Combining Synoptic and Dynamic Guidance and GCM Output. Journal of Climate, 2002, 15, 1036-1050.	1.2	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. Journal of Geophysical Research, 2001, 106, 18287-18303.	3.3	51
63	Northern hemisphere winter climate response to greenhouse gas, ozone, solar, and volcanic forcing. Journal of Geophysical Research, 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. Journal of Geophysical Research, 2001, 106, 18167-18192.	3.3	125
65	Simulation of recent northern winter climate trends by greenhouse-gas forcing. Nature, 1999, 399, 452-455.	13.7	489
66	Radiative Forcing of a Tropical Direct Circulation by Soil Dust Aerosols. Journals of the Atmospheric Sciences, 1999, 56, 2403-2433.	0.6	55
67	A general circulation model study on the interannual variability of soil dust aerosol. Journal of Geophysical Research, 1998, 103, 25975-25995.	3.3	102
68	Climate Response to Soil Dust Aerosols. Journal of Climate, 1998, 11, 3247-3267.	1.2	471
69	Tropical Thermostats and Low Cloud Cover. Journal of Climate, 1997, 10, 409-440.	1.2	130
70	Forcings and chaos in interannual to decadal climate change. Journal of Geophysical Research, 1997, 102, 25679-25720.	3.3	164
71	Surface Energy Fluxes and Coupled Variability in the Tropics of a Coupled General Circulation Model. Journal of Climate, 1996, 9, 1599-1620.	1.2	16
72	Tropical Cloud Feedbacks and Natural Variability of Climate. Journal of Climate, 1994, 7, 1388-1402.	1.2	14

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73	Viscous destabilization of stratified shear flow forRi>1/4. Geophysical and Astrophysical Fluid Dynamics, 1988, 42, 49-91.	0.4	7
74	Motions in the Interiors and atmospheres of Jupiter and Saturn. Icarus, 1986, 65, 370-382.	1.1	20