Ron L Miller

List of Publications by Year in descending order

74 papers	11,664 citations	47006 47 h-index	79698 73 g-index
95 all docs	95 docs citations	95 times ranked	10291 citing authors

#	Article	IF	Citations
1	Efficacy of climate forcings. Journal of Geophysical Research, 2005, 110, .	3.3	1,104
2	Global dust model intercomparison in AeroCom phase I. Atmospheric Chemistry and Physics, 2011, 11, 7781-7816.	4.9	839
3	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
4	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
5	Evaluation of black carbon estimations in global aerosol models. Atmospheric Chemistry and Physics, 2009, 9, 9001-9026.	4.9	585
6	Simulation of recent northern winter climate trends by greenhouse-gas forcing. Nature, 1999, 399, 452-455.	27.8	489
7	Climate Response to Soil Dust Aerosols. Journal of Climate, 1998, 11, 3247-3267.	3.2	471
8	Surface radiative forcing by soil dust aerosols and the hydrologic cycle. Journal of Geophysical Research, 2004, 109, n/a-n/a.	3.3	321
9	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
10	Smaller desert dust cooling effect estimated from analysis of dust size and abundance. Nature Geoscience, 2017, 10, 274-278.	12.9	306
11	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.	7.1	284
12	Northern hemisphere winter climate response to greenhouse gas, ozone, solar, and volcanic forcing. Journal of Geophysical Research, 2001, 106, 7193-7210.	3.3	260
13	GISSâ€E2.1: Configurations and Climatology. Journal of Advances in Modeling Earth Systems, 2020, 12, e2019MS002025.	3.8	234
14	Volcanic and Solar Forcing of Climate Change during the Preindustrial Era. Journal of Climate, 2003, 16, 4094-4107.	3.2	230
15	Climate simulations for 1880â€“2003 with GISS modelE. Climate Dynamics, 2007, 29, 661-696.	3.8	227
16	Dangerous human-made interference with climate: a GISS modelE study. Atmospheric Chemistry and Physics, 2007, 7, 2287-2312.	4.9	211
17	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
18	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

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19	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
20	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.	7.1	168
21	Forcings and chaos in interannual to decadal climate change. Journal of Geophysical Research, 1997, 102, 25679-25720.	3.3	164
22	Attribution of the presentâ€day total greenhouse effect. Journal of Geophysical Research, 2010, 115, .	3.3	158
23	Significant atmospheric aerosol pollution caused by world food cultivation. Geophysical Research Letters, 2016, 43, 5394-5400.	4.0	155
24	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.	4.9	149
25	Effective radiative forcing and adjustments in CMIP6 models. Atmospheric Chemistry and Physics, 2020, 20, 9591-9618.	4.9	149
26	CMIP5 historical simulations (1850â€“2012) with GISS ModelE2. Journal of Advances in Modeling Earth Systems, 2014, 6, 441-478.	3.8	133
27	Tropical Thermostats and Low Cloud Cover. Journal of Climate, 1997, 10, 409-440.	3.2	130
28	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
29	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
30	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
31	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
32	Soil Dust Aerosols and Wind as Predictors of Seasonal Meningitis Incidence in Niger. Environmental Health Perspectives, 2014, 122, 679-686.	6.0	111
33	Feedback upon dust emission by dust radiative forcing through the planetary boundary layer. Journal of Geophysical Research, 2004, 109, .	3.3	108
34	A general circulation model study on the interannual variability of soil dust aerosol. Journal of Geophysical Research, 1998, 103, 25975-25995.	3.3	102
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	Predicting the mineral composition of dust aerosols â€“ Part 1: Representing key processes. Atmospheric Chemistry and Physics, 2015, 15, 11593-11627.	4.9	98

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37	Implications for climate sensitivity from the response to individual forcings. Nature Climate Change, 2016, 6, 386-389.	18.8	94
38	Solar and anthropogenic forcing of tropical hydrology. Geophysical Research Letters, 2006, 33, .	4.0	89
39	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
40	Atmospheric circulation anomalies during two persistent north american droughts: 1932â€“1939 and 1948â€“1957. Climate Dynamics, 2011, 36, 2339-2355.	3.8	70
41	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
42	Cloud cover increase with increasing aerosol absorptivity: A counterexample to the conventional semidirect aerosol effect. Journal of Geophysical Research, 2010, 115, .	3.3	67
43	Dust and sea surface temperature forcing of the 1930s â€œDust Bowlâ€•drought. Geophysical Research Letters, 2008, 35, .	4.0	66
44	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
45	Impact of Dust Radiative Forcing upon Climate. , 2014, , 327-357.		61
46	Radiative Forcing of a Tropical Direct Circulation by Soil Dust Aerosols. Journals of the Atmospheric Sciences, 1999, 56, 2403-2433.	1.7	55
47	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
48	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
49	CMIP6 Historical Simulations (1850â€“2014) With GISSâ€E2.1. Journal of Advances in Modeling Earth Systems, 2021, 13, e2019MS002034.	3.8	49
50	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
51	On the Causes and Dynamics of the Early Twentieth-Century North American Pluvial. Journal of Climate, 2011, 24, 5043-5060.	3.2	46
52	General circulation modelling of Holocene climate variability. Quaternary Science Reviews, 2004, 23, 2167-2181.	3.0	45
53	Forced and unforced variability of twentieth century North American droughts and pluvials. Climate Dynamics, 2011, 37, 1097-1110.	3.8	44
54	Intensification of North American Megadroughts through Surface and Dust Aerosol Forcing*. Journal of Climate, 2013, 26, 4414-4430.	3.2	44

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55	Internal Variability and Disequilibrium Confound Estimates of Climate Sensitivity From Observations. Geophysical Research Letters, 2018, 45, 1595-1601.	4.0	42
56	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
57	Interactions between Mineral Dust, Climate, and Ocean Ecosystems. Elements, 2010, 6, 247-252.	0.5	35
58	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
59	Modeling Arabian dust mobilization during the Asian summer monsoon: The effect of prescribed versus calculated SST. Geophysical Research Letters, 2004, 31, .	4.0	32
60	Predicting the mineral composition of dust aerosols: Insights from elemental composition measured at the IzaÃ±a Observatory. Geophysical Research Letters, 2016, 43, 10520-10529.	4.0	29
61	The Earth Surface Mineral Dust Source Investigation: An Earth Science Imaging Spectroscopy Mission. , 2020, , .		26
62	Abrupt Seasonal Migration of the ITCZ into the Summer Hemisphere. Journals of the Atmospheric Sciences, 2008, 65, 1878-1895.	1.7	25
63	Seasonal contrast in the surface energy balance of the Sahel. Journal of Geophysical Research, 2009, 114, .	3.3	23
64	Exploring the Structure of Regional Climate Scenarios by Combining Synoptic and Dynamic Guidance and GCM Output. Journal of Climate, 2002, 15, 1036-1050.	3.2	22
65	Future Climate Change Under SSP Emission Scenarios With GISSâ€E2.1. Journal of Advances in Modeling Earth Systems, 2022, 14, .	3.8	22
66	Motions in the Interiors and atmospheres of Jupiter and Saturn. Icarus, 1986, 65, 370-382.	2.5	20
67	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
68	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
69	Surface Energy Fluxes and Coupled Variability in the Tropics of a Coupled General Circulation Model. Journal of Climate, 1996, 9, 1599-1620.	3.2	16
70	Tropical Cloud Feedbacks and Natural Variability of Climate. Journal of Climate, 1994, 7, 1388-1402.	3.2	14
71	Adjustment to Radiative Forcing in a Simple Coupled Oceanâ€“Atmosphere Model. Journal of Climate, 2012, 25, 7802-7821.	3.2	11
72	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

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73	Viscous destabilization of stratified shear flow forRi>1/4. Geophysical and Astrophysical Fluid Dynamics, 1988, 42, 49-91.	1.2	7
74	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