Andrea M Molod

List of Publications by Year
in descending order

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50 papers	11,261 citations	236833 25 h-index	189801 50 g-index
58 all docs	58 docs citations	58 times ranked	12898 citing authors

#	Article	IF	Citations
1	Local Airâ€Sea Interactions at Ocean Mesoscale and Submesoscale in a Western Boundary Current. Geophysical Research Letters, 2022, 49, .	1.5	20
2	Earth system model parameter adjustment using a Green's functions approach. Geoscientific Model Development, 2022, 15, 2309-2324.	1.3	2
3	Effects of grid spacing on high-frequency precipitation variance in coupled high-resolution global oceanâ€“atmosphere models. Climate Dynamics, 2022, 59, 2887-2913.	1.7	2
4	Seasonal Prediction of the Quasiâ€Biennial Oscillation. Journal of Geophysical Research D: Atmospheres, 2022, 127, .	1.2	5
5	Representation of Tropical Cyclones by the Modern-Era Retrospective Analysis for Research and Applications Version 2. Asia-Pacific Journal of Atmospheric Sciences, 2021, 57, 35-49.	1.3	4
6	Impacts of the Eruption of Mount Pinatubo on Surface Temperatures and Precipitation Forecasts With the NASA GEOS Subseasonalâ€toâ€Seasonal System. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2021JD034830.	1.2	4
7	Seasonality in Prediction Skill of the Maddenâ€Julian Oscillation and Associated Dynamics in Version 2 of NASA's GEOSâ€S2S Forecast System. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2021JD034961.	1.2	4
8	Asymmetry in Subseasonal Surface Air Temperature Forecast Error with Respect to Soil Moisture Initialization. Journal of Hydrometeorology, 2021, 22, 2505-2519.	0.7	2
9	Subseasonalâ€toâ€Seasonal Hindcast Skill Assessment of Ridging Events Related to Drought Over the Western United States. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2020JD033655.	1.2	12
10	To What Extent Biomass Burning Aerosols Impact South America Seasonal Climate Predictions?. Geophysical Research Letters, 2020, 47, e2020GL088096.	1.5	3
11	GEOSâ€S2S Version 2: The GMAO Highâ€Resolution Coupled Model and Assimilation System for Seasonal Prediction. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2019JD031767.	1.2	52
12	Windows of Opportunity for Skillful Forecasts Subseasonal to Seasonal and Beyond. Bulletin of the American Meteorological Society, 2020, 101, E608-E625.	1.7	124
13	Threeâ€toâ€Sixâ€Day Airâ€“Sea Oscillation in Models and Observations. Geophysical Research Letters, 2020, 47, e2019GL085837.	1.5	10
14	Satellite Sea Surface Salinity Observations Impact on El NiÃ±o/Southern Oscillation Predictions: Case Studies From the NASA GEOS Seasonal Forecast System. Journal of Geophysical Research: Oceans, 2020, 125, e2019JC015788.	1.0	12
15	Using a Simple Water Balance Framework to Quantify the Impact of Soil Moisture Initialization on Subseasonal Evapotranspiration and Air Temperature Forecasts. Journal of Hydrometeorology, 2020, 21, 1705-1722.	0.7	9
16	Differences in tropical high clouds among reanalyses: origins and radiative impacts. Atmospheric Chemistry and Physics, 2020, 20, 8989-9030.	1.9	26
17	Convective Entrainment Rates Estimated From Aura CO and CloudSat/CALIPSO Observations and Comparison With GEOSâ€5. Journal of Geophysical Research D: Atmospheres, 2019, 124, 9796-9807.	1.2	11
18	Annual Cycle of Planetary Boundary Layer Heights Estimated From Wind Profiler Network Data. Journal of Geophysical Research D: Atmospheres, 2019, 124, 6207-6221.	1.2	9

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19	The Impact of SST-Forced and Unforced Teleconnections on 2015/16 El NiÃ±o Winter Precipitation over the Western United States. Journal of Climate, 2018, 31, 5825-5844.	1.2	9
20	Consequences of different air-sea feedbacks on ocean using MITgcm and MERRA-2 forcing: Implications for coupled data assimilation systems. Ocean Modelling, 2018, 132, 91-111.	1.0	5
21	Assessing the Grellâ€Freitas Convection Parameterization in the <scp>NASA GEOS</scp> Modeling System. Journal of Advances in Modeling Earth Systems, 2018, 10, 1266-1289.	1.3	29
22	Errors and improvements in the use of archived meteorological data for chemical transport modeling: an analysis using GEOS-ChemÂv11-01 driven by GEOS-5 meteorology. Geoscientific Model Development, 2018, 11, 305-319.	1.3	49
23	Atmospheric Water Balance and Variability in the MERRA-2 Reanalysis. Journal of Climate, 2017, 30, 1177-1196.	1.2	132
24	The Modern-Era Retrospective Analysis for Research and Applications, Version 2 (MERRA-2). Journal of Climate, 2017, 30, 5419-5454.	1.2	4,520
25	Direct estimation of the global distribution of vertical velocity within cirrus clouds. Scientific Reports, 2017, 7, 6840.	1.6	33
26	An evaluation of gravity waves and gravity wave sources in the Southern Hemisphere in a 7 km global climate simulation. Quarterly Journal of the Royal Meteorological Society, 2017, 143, 2481-2495.	1.0	35
27	Introduction to the SPARC Reanalysis Intercomparison ProjectÂ(S-RIP) and overview of the reanalysis systems. Atmospheric Chemistry and Physics, 2017, 17, 1417-1452.	1.9	276
28	Largeâ€Scale Atmospheric Transport in <scp>GEOS</scp> Replay Simulations. Journal of Advances in Modeling Earth Systems, 2017, 9, 2545-2560.	1.3	64
29	Chemical Mechanisms and Their Applications in the Goddard Earth Observing System (GEOS) Earth System Model. Journal of Advances in Modeling Earth Systems, 2017, 9, 3019-3044.	1.3	47
30	Practice and philosophy of climate model tuning across six US modeling centers. Geoscientific Model Development, 2017, 10, 3207-3223.	1.3	100
31	Frequency and impact of summertime stratospheric intrusions over Maryland during DISCOVERâ€AQ (2011): New evidence from NASA's GEOSâ€5 simulations. Journal of Geophysical Research D: Atmospheres, 2016, 121, 3687-3706.	1.2	49
32	Atmospheric summer teleconnections and Greenland Ice Sheet surface mass variations: insights from MERRA-2. Environmental Research Letters, 2016, 11, 024002.	2.2	26
33	Quantitative Sensitivity Analysis of Physical Parameterizations for Cases of Deep Convection in the NASA GEOS-5. Journal of Climate, 2016, 29, 455-479.	1.2	10
34	Tropical Waves and the Quasi-Biennial Oscillation in a 7-km Global Climate Simulation. Journals of the Atmospheric Sciences, 2016, 73, 3771-3783.	0.6	50
35	Structure and Dynamics of the Quasi-Biennial Oscillation in MERRA-2. Journal of Climate, 2016, 29, 5339-5354.	1.2	78
36	An assessment of upper troposphere and lower stratosphere water vapor in MERRA, MERRA2, and ECMWF reanalyses using Aura MLS observations. Journal of Geophysical Research D: Atmospheres, 2015, 120, 11,468.	1.2	72

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37	Impact of planetary boundary layer turbulence on model climate and tracer transport. Atmospheric Chemistry and Physics, 2015, 15, 7269-7286.	1.9	16
38	Estimating Planetary Boundary Layer Heights from NOAA Profiler Network Wind Profiler Data. Journal of Atmospheric and Oceanic Technology, 2015, 32, 1545-1561.	0.5	36
39	Sensitivity of Tropical Cyclones to Parameterized Convection in the NASA GEOS-5 Model. Journal of Climate, 2015, 28, 551-573.	1.2	45
40	Development of the GEOS-5 atmospheric general circulation model: evolution from MERRA to MERRA2. Geoscientific Model Development, 2015, 8, 1339-1356.	1.3	822
41	Development of two-moment cloud microphysics for liquid and ice within the NASA Goddard Earth Observing System Model (GEOS-5). Geoscientific Model Development, 2014, 7, 1733-1766.	1.3	78
42	Comparison of GEOS-5 AGCM planetary boundary layer depths computed with various definitions. Atmospheric Chemistry and Physics, 2014, 14, 6717-6727.	1.9	42
43	Connections between the Spring Breakup of the Southern Hemisphere Polar Vortex, Stationary Waves, and Airâ€“Sea Roughness. Journals of the Atmospheric Sciences, 2013, 70, 2137-2151.	0.6	10
44	Improved boundary layer depth retrievals from MPLNET. Journal of Geophysical Research D: Atmospheres, 2013, 118, 9870-9879.	1.2	53
45	The impact of limiting ocean roughness on GEOSâ€5 AGCM tropical cyclone forecasts. Geophysical Research Letters, 2013, 40, 411-416.	1.5	14
46	Constraints on the Profiles of Total Water PDF in AGCMs from AIRS and a High-Resolution Model. Journal of Climate, 2012, 25, 8341-8352.	1.2	37
47	MERRA: NASAâ€™s Modern-Era Retrospective Analysis for Research and Applications. Journal of Climate, 2011, 24, 3624-3648.	1.2	4,118
48	A global assessment of the mosaic approach to modeling land surface heterogeneity. Journal of Geophysical Research, 2002, 107, ACL 9-1.	3.3	30
49	An evaluation of deep convective mixing in the Goddard Chemical Transport Model using International Satellite Cloud Climatology Project cloud parameters. Journal of Geophysical Research, 1997, 102, 25467-25476.	3.3	19
50	The Climatology of Parameterized Physical Processes in the GEOS-1 GCM and Their Impact on the GEOS-1 Data Assimilation System. Journal of Climate, 1996, 9, 764-785.	1.2	37