Michael G Bosilovich

List of Publications by Year
in descending order

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53 papers	12,656 citations	159525 30 h-index	189801 50 g-index
53 all docs	53 docs citations	53 times ranked	13940 citing authors

#	Article	IF	Citations
1	The Modern-Era Retrospective Analysis for Research and Applications, Version 2 (MERRA-2). Journal of Climate, 2017, 30, 5419-5454.	1.2	4,520
2	MERRA: NASAâ€™s Modern-Era Retrospective Analysis for Research and Applications. Journal of Climate, 2011, 24, 3624-3648.	1.2	4,118
3	The Common Land Model. Bulletin of the American Meteorological Society, 2003, 84, 1013-1024.	1.7	1,058
4	Evaluation of Global Precipitation in Reanalyses. Journal of Applied Meteorology and Climatology, 2008, 47, 2279-2299.	0.6	338
5	Evaluation of the Reanalysis Products from GSFC, NCEP, and ECMWF Using Flux Tower Observations. Journal of Climate, 2012, 25, 1916-1944.	1.2	284
6	Global Energy and Water Budgets in MERRA. Journal of Climate, 2011, 24, 5721-5739.	1.2	237
7	Water Vapor Tracers as Diagnostics of the Regional Hydrologic Cycle. Journal of Hydrometeorology, 2002, 3, 149-165.	0.7	197
8	Atmospheric Water Balance and Variability in the MERRA-2 Reanalysis. Journal of Climate, 2017, 30, 1177-1196.	1.2	132
9	Global Changes of the Water Cycle Intensity. Journal of Climate, 2005, 18, 1591-1608.	1.2	108
10	Where Does the Irrigation Water Go? An Estimate of the Contribution of Irrigation to Precipitation Using MERRA. Journal of Hydrometeorology, 2013, 14, 275-289.	0.7	100
11	Water vapor sources for Yangtze River Valley rainfall: Climatology, variability, and implications for rainfall forecasting. Journal of Geophysical Research, 2012, 117, .	3.3	84
12	Confronting Weather and Climate Models with Observational Data from Soil Moisture Networks over the United States. Journal of Hydrometeorology, 2016, 17, 1049-1067.	0.7	83
13	The Effect of Satellite Observing System Changes on MERRA Water and Energy Fluxes. Journal of Climate, 2011, 24, 5197-5217.	1.2	77
14	Simulation of Water Sources and Precipitation Recycling for the MacKenzie, Mississippi, and Amazon River Basins. Journal of Hydrometeorology, 2006, 7, 312-329.	0.7	76
15	Numerical Simulation of the 1993 Midwestern Flood: Landâ€“Atmosphere Interactions. Journal of Climate, 1999, 12, 1490-1505.	1.2	74
16	Skin Temperature Analysis and Bias Correction in a Coupled Land-Atmosphere Data Assimilation System. Journal of the Meteorological Society of Japan, 2007, 85A, 205-228.	0.7	67
17	Verification of Landâ€“Atmosphere Coupling in Forecast Models, Reanalyses, and Land Surface Models Using Flux Site Observations. Journal of Hydrometeorology, 2018, 19, 375-392.	0.7	66
18	The Moisture Budget of the Polar Atmosphere in MERRA. Journal of Climate, 2011, 24, 2861-2879.	1.2	64

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19	FROGS: a daily 1Â°â€†â€‰Ã—â€‰â€†1Â° gridded precipitation database of rain gauge, satellite and reanalysis products. Earth System Science Data, 2019, 11, 1017-1035.	3.7	63
20	The Spatiotemporal Structure of Twentieth-Century Climate Variations in Observations and Reanalyses. Part II: Pacific Pan-Decadal Variability. Journal of Climate, 2008, 21, 2634-2650.	1.2	62
21	The Spatiotemporal Structure of Twentieth-Century Climate Variations in Observations and Reanalyses. Part I: Long-Term Trend. Journal of Climate, 2008, 21, 2611-2633.	1.2	62
22	Precipitation Recycling over the Central United States Diagnosed from the GEOS-1 Data Assimilation System. Journal of Hydrometeorology, 2001, 2, 26-35.	0.7	59
23	The Energy Budget of the Polar Atmosphere in MERRA. Journal of Climate, 2012, 25, 5-24.	1.2	59
24	Large-Scale Influences on Summertime Extreme Precipitation in the Northeastern United States. Journal of Hydrometeorology, 2016, 17, 3045-3061.	0.7	54
25	Numerical simulation of the large-scale North American monsoon water sources. Journal of Geophysical Research, 2003, 108, .	3.3	50
26	Regional Climate and Variability of NASA MERRA and Recent Reanalyses: U.S. Summertime Precipitation and Temperature. Journal of Applied Meteorology and Climatology, 2013, 52, 1939-1951.	0.6	45
27	The GEWEX Water Vapor Assessment archive of water vapour products from satellite observations and reanalyses. Earth System Science Data, 2018, 10, 1093-1117.	3.7	42
28	Planetary boundary layer and surface layer sensitivity to land surface parameters. Boundary-Layer Meteorology, 1996, 77, 353-378.	1.2	40
29	A comparison of MODIS land surface temperature with in situ observations. Geophysical Research Letters, 2006, 33, .	1.5	38
30	Comparing Evaporative Sources of Terrestrial Precipitation and Their Extremes in MERRA Using Relative Entropy. Journal of Hydrometeorology, 2014, 15, 102-116.	0.7	38
31	Initial CEOP-based Review of the Prediction Skill of Operational General Circulation Models and Land Surface Models. Journal of the Meteorological Society of Japan, 2007, 85A, 99-116.	0.7	29
32	Formulation and verification of a land surface parameterization for atmospheric models. Boundary-Layer Meteorology, 1995, 73, 321-341.	1.2	28
33	On the Reprocessing and Reanalysis of Observations for Climate. , 2013, , 51-71.		27
34	Characterization of Turbulent Latent and Sensible Heat Flux Exchange between the Atmosphere and Ocean in MERRA. Journal of Climate, 2012, 25, 821-838.	1.2	26
35	A Multimodel Analysis for the Coordinated Enhanced Observing Period (CEOP). Journal of Hydrometeorology, 2009, 10, 912-934.	0.7	25
36	Multimodel Analysis of Energy and Water Fluxes: Intercomparisons between Operational Analyses, a Land Surface Model, and Remote Sensing. Journal of Hydrometeorology, 2012, 13, 3-26.	0.7	24

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37	Evaluation of NASAâ€™s MERRA Precipitation Product in Reproducing the Observed Trend and Distribution of Extreme Precipitation Events in the United States. Journal of Hydrometeorology, 2016, 17, 693-711.	0.7	23
38	Evaluation of 22 Precipitation and 23 Soil Moisture Products over a Semiarid Area in Southeastern Arizona*. Journal of Hydrometeorology, 2016, 17, 211-230.	0.7	22
39	Mechanisms Associated with Daytime and Nighttime Heat Waves over the Contiguous United States. Journal of Applied Meteorology and Climatology, 2020, 59, 1865-1882.	0.6	21
40	Monthly Simulation of Surface Layer Fluxes and Soil Properties during FIFE. Journals of the Atmospheric Sciences, 1998, 55, 1170-1184.	0.6	19
41	Evaluating Observation Influence on Regional Water Budgets in Reanalyses. Journal of Climate, 2015, 28, 3631-3649.	1.2	17
42	Numerical simulation of the 1993 midwestern flood: Local and remote sources of water. Journal of Geophysical Research, 1999, 104, 19415-19423.	3.3	16
43	Uncertainties in Ocean Latent Heat Flux Variations over Recent Decades in Satellite-Based Estimates and Reduced Observation Reanalyses. Journal of Climate, 2020, 33, 8415-8437.	1.2	16
44	Reconciling Landâ€“Ocean Moisture Transport Variability in Reanalyses with P â^’ ET in Observationally Driven Land Surface Models. Journal of Climate, 2016, 29, 8625-8646.	1.2	13
45	Coordinated Enhanced Observing Period (CEOP) International Workshop. Bulletin of the American Meteorological Society, 2002, 83, 1495-1499.	1.7	13
46	A Dusty Atmospheric River Brings Floods to the Middle East. Geophysical Research Letters, 2021, 48, e2021GL095441.	1.5	9
47	River basin hydrology in a global off-line land-surface model. Journal of Geophysical Research, 1999, 104, 19661-19673.	3.3	8
48	Large-Scale Influences on Atmospheric Riverâ€“Induced Extreme Precipitation Events along the Coast of Washington State. Journal of Hydrometeorology, 2020, 21, 2139-2156.	0.7	8
49	Recent Arctic Ocean Surface Air Temperatures in Atmospheric Reanalyses and Numerical Simulations. Journal of Climate, 2020, 33, 4347-4367.	1.2	8
50	On the use and validation of mosaic heterogeneity in atmospheric numerical models. Geophysical Research Letters, 2002, 29, 15-1-15-4.	1.5	5
51	El NiÃ±oâ€“Related Tropical Land Surface Water and Energy Response in MERRA-2. Journal of Climate, 2020, 33, 1155-1176.	1.2	2
52	Reanalysis: Data Assimilation for Scientific Investigation of Climate. , 2010, , 623-646.		1
53	Continental Patterns of Bird Migration Linked to Climate Variability. Bulletin of the American Meteorological Society, 2022, 103, E536-E547.	1.7	1