

# Michael Barlage

## List of Publications by Year in descending order

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Version: 2024-02-01

38  
papers

4,113  
citations

218677

26  
h-index

315739

38  
g-index

40  
all docs

40  
docs citations

40  
times ranked

4370  
citing authors

#	ARTICLE	IF	CITATIONS
1	Modeling the Hydrologic Influence of Subsurface Tile Drainage Using the National Water Model. <i>Water Resources Research</i> , 2022, 58, .	4.2	9
2	The Importance of Scale-Dependent Groundwater Processes in Land-Atmosphere Interactions Over the Central United States. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL092171.	4.0	39
3	Representation of Plant Hydraulics in the Noah-MP Land Surface Model: Model Development and Multiscale Evaluation. <i>Journal of Advances in Modeling Earth Systems</i> , 2021, 13, e2020MS002214.	3.8	50
4	Improve the Performance of the Noah-MP-Crop Model by Jointly Assimilating Soil Moisture and Vegetation Phenology Data. <i>Journal of Advances in Modeling Earth Systems</i> , 2021, 13, e2020MS002394.	3.8	15
5	Evaluation of convection-permitting WRF CONUS simulation on the relationship between soil moisture and heatwaves. <i>Climate Dynamics</i> , 2020, 55, 235-252.	3.8	17
6	Mapping of 30-meter resolution tile-drained croplands using a geospatial modeling approach. <i>Scientific Data</i> , 2020, 7, 257.	5.3	47
7	Assessment of Uncertainty Sources in Snow Cover Simulation in the Tibetan Plateau. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2020JD032674.	3.3	32
8	Joint Modeling of Crop and Irrigation in the central United States Using the Noah-MP Land Surface Model. <i>Journal of Advances in Modeling Earth Systems</i> , 2020, 12, e2020MS002159.	3.8	25
9	Modeling groundwater responses to climate change in the Prairie Pothole Region. <i>Hydrology and Earth System Sciences</i> , 2020, 24, 655-672.	4.9	23
10	Implementing Dynamic Rooting Depth for Improved Simulation of Soil Moisture and Land Surface Feedbacks in Noah-MP-Crop. <i>Journal of Advances in Modeling Earth Systems</i> , 2020, 12, e2019MS001786.	3.8	15
11	Using 4-km WRF CONUS simulations to assess impacts of the surface coupling strength on regional climate simulation. <i>Climate Dynamics</i> , 2019, 53, 6397-6416.	3.8	12
12	Lessons Learned From Modeling Irrigation From Field to Regional Scales. <i>Journal of Advances in Modeling Earth Systems</i> , 2019, 11, 2428-2448.	3.8	25
13	Using Multisource Satellite Data to Assess Recent Snow-Cover Variability and Uncertainty in the Qinghai-Tibet Plateau. <i>Journal of Hydrometeorology</i> , 2019, 20, 1293-1306.	1.9	15
14	Enhanced Snow Absorption and Albedo Reduction by Dust-Snow Internal Mixing: Modeling and Parameterization. <i>Journal of Advances in Modeling Earth Systems</i> , 2019, 11, 3755-3776.	3.8	28
15	Can Convection-Permitting Modeling Provide Decent Precipitation for Offline High-Resolution Snowpack Simulations Over Mountains?. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 12631-12654.	3.3	31
16	A Wet-Bulb Temperature-Based Rain-Snow Partitioning Scheme Improves Snowpack Prediction Over the Drier Western United States. <i>Geophysical Research Letters</i> , 2019, 46, 13825-13835.	4.0	39
17	Using WRF-Urban to Assess Summertime Air Conditioning Electric Loads and Their Impacts on Urban Weather in Beijing. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 2475-2490.	3.3	33
18	Evaluation of the WRF-Urban Modeling System Coupled to Noah and Noah-MP Land Surface Models Over a Semiarid Urban Environment. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 2387-2408.	3.3	68

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19	Memory of irrigation effects on hydroclimate and its modeling challenge. <i>Environmental Research Letters</i> , 2018, 13, 064009.	5.2	26
20	Black carbon-induced snow albedo reduction over the Tibetan Plateau: uncertainties from snow grain shape and aerosol–snow mixing state based on an updated SNICAR model. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 11507-11527.	4.9	85
21	Impacts of Land Cover and Soil Texture Uncertainty on Land Model Simulations Over the Central Tibetan Plateau. <i>Journal of Advances in Modeling Earth Systems</i> , 2018, 10, 2121-2146.	3.8	41
22	Surface energy balance closure at ten sites over the Tibetan plateau. <i>Agricultural and Forest Meteorology</i> , 2018, 259, 317-328.	4.8	34
23	Atmosphere-ionosphere coupling from convectively generated gravity waves. <i>Advances in Space Research</i> , 2018, 61, 1931-1941.	2.6	26
24	The Influence of Fire-Induced Surface Changes on the Diurnal Temperature Changes over the Hayman Fire Scar. <i>Journal of Applied Meteorology and Climatology</i> , 2017, 56, 45-67.	1.5	2
25	Urban meteorological modeling using WRF: a sensitivity study. <i>International Journal of Climatology</i> , 2017, 37, 1885-1900.	3.5	97
26	Noah–MP–Crop: Introducing dynamic crop growth in the Noah–MP land surface model. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 13,953.	3.3	61
27	Impact of physics parameterizations on high-resolution weather prediction over two Chinese megacities. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 4487-4498.	3.3	55
28	The incorporation of an organic soil layer in the Noah-MP land surface model and its evaluation over a boreal aspen forest. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 8375-8387.	4.9	25
29	Effects of Hydrologic Model Choice and Calibration on the Portrayal of Climate Change Impacts. <i>Journal of Hydrometeorology</i> , 2015, 16, 762-780.	1.9	84
30	The effect of groundwater interaction in North American regional climate simulations with WRF/Noah-MP. <i>Climatic Change</i> , 2015, 129, 485-498.	3.6	114
31	How can we use MODIS land surface temperature to validate long-term urban model simulations?. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 3185-3201.	3.3	57
32	Modeling seasonal snowpack evolution in the complex terrain and forested Colorado Headwaters region: A model intercomparison study. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 13,795.	3.3	95
33	Development and evaluation of a mosaic approach in the WRF–Noah framework. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 11,918.	3.3	106
34	The community Noah land surface model with multiparameterization options (Noah-MP): 1. Model description and evaluation with local-scale measurements. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	1,626
35	The community Noah land surface model with multiparameterization options (Noah-MP): 2. Evaluation over global river basins. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	475
36	High-Resolution Coupled Climate Runoff Simulations of Seasonal Snowfall over Colorado: A Process Study of Current and Warmer Climate. <i>Journal of Climate</i> , 2011, 24, 3015-3048.	3.2	400

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37	Noah land surface model modifications to improve snowpack prediction in the Colorado Rocky Mountains. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	122
38	Enhancement of land surface information and its impact on atmospheric modeling in the Heihe River Basin, northwest China. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	59