David J Gochis

List of Publications by Year
in descending order

35 papers	4,920 citations	257450 24 h-index	377865 34 g-index
38 all docs	38 docs citations	38 times ranked	6242 citing authors

#	Article	IF	Citations
1	The Weather Research and Forecasting Model: Overview, System Efforts, and Future Directions. Bulletin of the American Meteorological Society, 2017, 98, 1717-1737.	3.3	717
2	Hyperresolution global land surface modeling: Meeting a grand challenge for monitoring Earth's terrestrial water. Water Resources Research, 2011, 47, .	4.2	634
3	How Well Are We Measuring Snow: The NOAA/FAA/NCAR Winter Precipitation Test Bed. Bulletin of the American Meteorological Society, 2012, 93, 811-829.	3.3	538
4	High-Resolution Coupled Climate Runoff Simulations of Seasonal Snowfall over Colorado: A Process Study of Current and Warmer Climate. Journal of Climate, 2011, 24, 3015-3048.	3.2	400
5	Improving the representation of hydrologic processes in Earth System Models. Water Resources Research, 2015, 51, 5929-5956.	4.2	366
6	Continental-scale convection-permitting modeling of the current and future climate of North America. Climate Dynamics, 2017, 49, 71-95.	3.8	362
7	An overview of current applications, challenges, and future trends in distributed process-based models in hydrology. Journal of Hydrology, 2016, 537, 45-60.	5.4	349
8	Hyper-resolution global hydrological modelling: what is next?. Hydrological Processes, 2015, 29, 310-320.	2.6	280
9	Climate Change Impacts on the Water Balance of the Colorado Headwaters: High-Resolution Regional Climate Model Simulations. Journal of Hydrometeorology, 2014, 15, 1091-1116.	1.9	166
10	Fully coupled atmosphereâ€hydrology simulations for the central <scp>M</scp>editerranean: Impact of enhanced hydrological parameterization for short and long time scales. Journal of Advances in Modeling Earth Systems, 2015, 7, 1693-1715.	3.8	137
11	Sensitivity of the Modeled North American Monsoon Regional Climate to Convective Parameterization. Monthly Weather Review, 2002, 130, 1282-1298.	1.4	104
12	Recent tree dieâ€off has little effect on streamflow in contrast to expected increases from historical studies. Water Resources Research, 2015, 51, 9775-9789.	4.2	97
13	The Diurnal Cycle of Clouds and Precipitation along the Sierra Madre Occidental Observed during NAME-2004: Implications for Warm Season Precipitation Estimation in Complex Terrain. Journal of Hydrometeorology, 2008, 9, 728-743.	1.9	91
14	Towards Realâ€Time Continental Scale Streamflow Simulation in Continuous and Discrete Space. Journal of the American Water Resources Association, 2018, 54, 7-27.	2.4	75
15	Comparing One-Way and Two-Way Coupled Hydrometeorological Forecasting Systems for Flood Forecasting in the Mediterranean Region. Hydrology, 2016, 3, 19.	3.0	61
16	Synthesis of Results from the North American Monsoon Experiment (NAME) Process Study. Journal of Climate, 2007, 20, 1601-1607.	3.2	58
17	Effects of Initial Soil Moisture on Rainfall Generation and Subsequent Hydrologic Response during the North American Monsoon. Journal of Hydrometeorology, 2009, 10, 644-664.	1.9	54
18	Evaluating the present annual water budget of a Himalayan headwater river basin using a highâ€resolution atmosphereâ€hydrology model. Journal of Geophysical Research D: Atmospheres, 2017, 122, 4786-4807.	3.3	51

#	Article	IF	Citations
19	Role of Lateral Terrestrial Water Flow on the Regional Water Cycle in a Complex Terrain Region: Investigation With a Fully Coupled Model System. Journal of Geophysical Research D: Atmospheres, 2019, 124, 507-529.	3.3	49
20	Mapping of 30-meter resolution tile-drained croplands using a geospatial modeling approach. Scientific Data, 2020, 7, 257.	5.3	47
21	Spatial and Temporal Patterns of Precipitation Intensity as Observed by the NAME Event Rain Gauge Network from 2002 to 2004. Journal of Climate, 2007, 20, 1734-1750.	3.2	44
22	Enhancing the Structure of the WRF-Hydro Hydrologic Model for Semiarid Environments. Journal of Hydrometeorology, 2019, 20, 691-714.	1.9	44
23	Continental Hydrologic Intercomparison Project, Phase 1: A Largeâ€Scale Hydrologic Model Comparison Over the Continental United States. Water Resources Research, 2021, 57, e2020WR028931.	4.2	27
24	On the diurnal cycle of surface energy fluxes in the North American monsoon region using the WRFâ€Hydro modeling system. Journal of Geophysical Research D: Atmospheres, 2017, 122, 9024-9049.	3.3	26
25	Seasonal evolution of ecohydrological controls on land surface temperature over complex terrain. Water Resources Research, 2014, 50, 3852-3874.	4.2	25
26	Lessons Learned From Modeling Irrigation From Field to Regional Scales. Journal of Advances in Modeling Earth Systems, 2019, 11, 2428-2448.	3.8	25
27	Temporal Downscaling and Statistical Analysis of Rainfall across a Topographic Transect in Northwest Mexico. Journal of Applied Meteorology and Climatology, 2014, 53, 910-927.	1.5	19
28	Efficiency of the Summer Monsoon in Generating Streamflow Within a Snowâ€Dominated Headwater Basin of the Colorado River. Geophysical Research Letters, 2020, 47, e2020GL090856.	4.0	16
29	Assimilation of NASA's Airborne Snow Observatory Snow Measurements for Improved Hydrological Modeling: A Case Study Enabled by the Coupled LIS/WRFâ€Hydro System. Water Resources Research, 2022, 58, .	4.2	12
30	Evaluation of NOAA National Water Model Parameter Calibration in Semi-Arid Environments Prone to Channel Infiltration. Journal of Hydrometeorology, 2021, , .	1.9	10
31	Mass balance and hydrological modeling of the HardangerjÃ¸kulen ice cap in south-central Norway. Hydrology and Earth System Sciences, 2021, 25, 4275-4297.	4.9	9
32	Modeling the Hydrologic Influence of Subsurface Tile Drainage Using the National Water Model. Water Resources Research, 2022, 58, .	4.2	9
33	Forest Disturbance Feedbacks From Bedrock to Atmosphere Using Coupled Hydrometeorological Simulations Over the Rocky Mountain Headwaters. Journal of Geophysical Research D: Atmospheres, 2018, 123, 9026-9046.	3.3	8
34	Landscape Controls on Waterâ€Energyâ€Carbon Fluxes Across Different Ecosystems During the North American Monsoon. Journal of Geophysical Research G: Biogeosciences, 2021, 126, e2020JG005809.	3.0	8
35	Challenges in Forecasting Water Resources of the Indus River Basin: Lessons From the Analysis and Modeling of Atmospheric and Hydrological Processes. , 2019, , 57-83.		1