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	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
2	Modeling the Hydrologic Influence of Subsurface Tile Drainage Using the National Water Model. Water Resources Research, 2022, 58, .	4.2	9
3	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
4	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
5	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
6	Evaluation of NOAA National Water Model Parameter Calibration in Semi-Arid Environments Prone to Channel Infiltration. Journal of Hydrometeorology, 2021, , .	1.9	10
7	Mapping of 30-meter resolution tile-drained croplands using a geospatial modeling approach. Scientific Data, 2020, 7, 257.	5.3	47
8	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
9	Lessons Learned From Modeling Irrigation From Field to Regional Scales. Journal of Advances in Modeling Earth Systems, 2019, 11, 2428-2448.	3.8	25
10	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
11	Enhancing the Structure of the WRF-Hydro Hydrologic Model for Semiarid Environments. Journal of Hydrometeorology, 2019, 20, 691-714.	1.9	44
12	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
13	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
14	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
15	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
16	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
17	Continental-scale convection-permitting modeling of the current and future climate of North America. Climate Dynamics, 2017, 49, 71-95.	3.8	362
18	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

#	Article	IF	Citations
19	Comparing One-Way and Two-Way Coupled Hydrometeorological Forecasting Systems for Flood Forecasting in the Mediterranean Region. Hydrology, 2016, 3, 19.	3.0	61
20	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
21	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
22	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
23	Improving the representation of hydrologic processes in Earth System Models. Water Resources Research, 2015, 51, 5929-5956.	4.2	366
24	Hyper-resolution global hydrological modelling: what is next?. Hydrological Processes, 2015, 29, 310-320.	2.6	280
25	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
26	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
27	Seasonal evolution of ecohydrological controls on land surface temperature over complex terrain. Water Resources Research, 2014, 50, 3852-3874.	4.2	25
28	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
29	Hyperresolution global land surface modeling: Meeting a grand challenge for monitoring Earth's terrestrial water. Water Resources Research, 2011, 47, .	4.2	634
30	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
31	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
32	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
33	Synthesis of Results from the North American Monsoon Experiment (NAME) Process Study. Journal of Climate, 2007, 20, 1601-1607.	3.2	58
34	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
35	Sensitivity of the Modeled North American Monsoon Regional Climate to Convective Parameterization. Monthly Weather Review, 2002, 130, 1282-1298.	1.4	104