

# Mekonnen Gebremichael

## List of Publications by Year in descending order

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43  
papers

1,523  
citations

361413

20  
h-index

315739

38  
g-index

44  
all docs

44  
docs citations

44  
times ranked

1900  
citing authors

#	ARTICLE	IF	CITATIONS
1	Evaluation of High-Resolution Satellite Precipitation Products over Very Complex Terrain in Ethiopia. Journal of Applied Meteorology and Climatology, 2010, 49, 1044-1051.	1.5	251
2	Evaluation of satellite rainfall products through hydrologic simulation in a fully distributed hydrologic model. Water Resources Research, 2011, 47, .	4.2	192
3	Evaluation of High-Resolution Satellite Rainfall Products through Streamflow Simulation in a Hydrological Modeling of a Small Mountainous Watershed in Ethiopia. Journal of Hydrometeorology, 2012, 13, 338-350.	1.9	149
4	Understanding the Scale Relationships of Uncertainty Propagation of Satellite Rainfall through a Distributed Hydrologic Model. Journal of Hydrometeorology, 2010, 11, 520-532.	1.9	98
5	Rainfall Variability over Mountainous and Adjacent Lake Areas: The Case of Lake Tana Basin at the Source of the Blue Nile River. Journal of Applied Meteorology and Climatology, 2009, 48, 1696-1717.	1.5	78
6	Managed aquifer recharge implementation criteria to achieve water sustainability. Science of the Total Environment, 2021, 768, 144992.	8.0	69
7	Accuracy of satellite rainfall estimates in the <sc>B</sc>ue <sc>N</sc>ile <sc>B</sc>asin: <sc>L</sc>owland plain versus highland mountain. Water Resources Research, 2014, 50, 8775-8790.	4.2	66
8	Evaluation of CMORPH Precipitation Products at Fine Spaceâ€“Time Scales. Journal of Hydrometeorology, 2009, 10, 300-307.	1.9	57
9	River flow fluctuation analysis: Effect of watershed area. Water Resources Research, 2010, 46, .	4.2	46
10	Understanding the hydrologic sources and sinks in the <sc>N</sc>ile <sc>B</sc>asin using multisource climate and remote sensing data sets. Water Resources Research, 2014, 50, 8625-8650.	4.2	36
11	Intercomparison of Sensible Heat Flux from Large Aperture Scintillometer and Eddy Covariance Methods: Field Experiment over a Homogeneous Semi-arid Region. Boundary-Layer Meteorology, 2010, 135, 151-159.	2.3	33
12	Climate change impacts on groundwater storage in the Central Valley, California. Climatic Change, 2019, 157, 387-406.	3.6	30
13	Can Managed Aquifer Recharge Mitigate the Groundwater Overdraft in California's Central Valley?. Water Resources Research, 2020, 56, e2020WR027244.	4.2	30
14	Application of Copulas to Modeling Temporal Sampling Errors in Satellite-Derived Rainfall Estimates. Journal of Hydrologic Engineering - ASCE, 2007, 12, 404-408.	1.9	28
15	Nonparametric error model for a high resolution satellite rainfall product. Water Resources Research, 2011, 47, .	4.2	28
16	Climateâ€“related trends of actual evapotranspiration over the Tibetan Plateau (1961â€“2010). International Journal of Climatology, 2018, 38, e48.	3.5	27
17	A Framework for Validation of Remotely Sensed Precipitation and Evapotranspiration Based on the Budyko Hypothesis. Water Resources Research, 2017, 53, 8487-8499.	4.2	26
18	Evaluation Through Independent Measurements: Complex Terrain and Humid Tropical Region in Ethiopia. , 2010, , 205-214.		23

#	ARTICLE	IF	CITATIONS
19	Critical Steps for Continuing Advancement of Satellite Rainfall Applications for Surface Hydrology in the Nile River Basin <sup>1</sup> . Journal of the American Water Resources Association, 2010, 46, 361-366.	2.4	22
20	Impact of temperature and precipitation on propagation of intestinal schistosomiasis in an irrigated region in Ethiopia: suitability of satellite datasets. Tropical Medicine and International Health, 2011, 16, 1104-1111.	2.3	22
21	On CMORPH Rainfall for Streamflow Simulation in a Small, Hortonian Watershed. Journal of Hydrometeorology, 2011, 12, 456-466.	1.9	20
22	Budyko-Based Long-Term Water and Energy Balance Closure in Global Watersheds From Earth Observations. Water Resources Research, 2021, 57, e2020WR028658.	4.2	19
23	Seasonal Hydropower Planning for Data-Scarce Regions Using Multimodel Ensemble Forecasts, Remote Sensing Data, and Stochastic Programming. Water Resources Research, 2019, 55, 8583-8607.	4.2	17
24	Post-Drought Groundwater Storage Recovery in California's Central Valley. Water Resources Research, 2021, 57, e2021WR030352.	4.2	17
25	What Drives Crop Land Use Change during Multi-Year Droughts in California's Central Valley? Prices or Concern for Water?. Remote Sensing, 2021, 13, 650.	4.0	15
26	Impacts of Raindrop Fall Velocity and Axis Ratio Errors on Dual-Polarization Radar Rainfall Estimation. Journal of Hydrometeorology, 2014, 15, 1849-1861.	1.9	12
27	Remote Sensing-Based Assessment of the Crop, Energy and Water Nexus in the Central Valley, California. Remote Sensing, 2019, 11, 1701.	4.0	12
28	Further evaluation of the Sim-ReSET model for ET estimation driven by only satellite inputs. Hydrological Sciences Journal, 2013, 58, 994-1012.	2.6	11
29	Evaluation of Clear-Sky Incoming Radiation Estimating Equations Typically Used in Remote Sensing Evapotranspiration Algorithms. Remote Sensing, 2013, 5, 4735-4752.	4.0	11
30	Spatial and temporal variability of East African Kiremt season precipitation and large-scale teleconnections. International Journal of Climatology, 2020, 40, 1241-1254.	3.5	10
31	Uncertainty assessment of LSTM based groundwater level predictions. Hydrological Sciences Journal, 2022, 67, 773-790.	2.6	10
32	Evaluation of the VI <sub>TS</sub> method for estimating the land surface moisture index and air temperature using ASTER and MODIS data in the North China Plain. International Journal of Remote Sensing, 2011, 32, 7257-7278.	2.9	9
33	Parameter Estimation for Groundwater Models under Uncertain Irrigation Data. Ground Water, 2015, 53, 614-625.	1.3	8
34	Improving the Applicability of Hydrologic Models for Food-Energy-Water Nexus Studies Using Remote Sensing Data. Remote Sensing, 2020, 12, 599.	4.0	7
35	Evaluation of Empirical Remote Sensing-Based Equations for Estimating Soil Heat Flux. Journal of the Meteorological Society of Japan, 2013, 91, 627-638.	1.8	6
36	Remote Sensing Based Assessment of Long-Term Riparian Vegetation Health in Proximity to Agricultural Lands with Herbicide Use History. Integrated Environmental Assessment and Management, 2019, 15, 528-543.	2.9	5

#	ARTICLE	IF	CITATIONS
37	Optimizing Precipitation Forecasts for Hydrological Catchments in Ethiopia Using Statistical Bias Correction and Multi-Modeling. <i>Earth and Space Science</i> , 2021, 8, e2019EA000933.	2.6	5
38	The Skills of Medium-Range Precipitation Forecasts in the Senegal River Basin. <i>Sustainability</i> , 2022, 14, 3349.	3.2	5
39	Empirical Distribution of Conditional Errors in Radar Rainfall Products. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL090237.	4.0	3
40	The Accuracy of Precipitation Forecasts at Timescales of 1–15 Days in the Volta River Basin. <i>Remote Sensing</i> , 2022, 14, 937.	4.0	3
41	On the Critical Behaviour of Observed and Simulated Spatial Soil Moisture Fields during SGP97. <i>Remote Sensing</i> , 2010, 2, 2097-2110.	4.0	2
42	A Scalable Earth Observations-Based Decision Support System for Hydropower Planning in Africa. <i>Journal of the American Water Resources Association</i> , 0, , .	2.4	1
43	Evaluation of Global Forecast System (GFS) Medium-Range Precipitation Forecasts in the Nile River Basin. <i>Journal of Hydrometeorology</i> , 2021, , .	1.9	1