Tsegaye Tadesse

List of Publications by Year
in descending order

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78 papers	3,993 citations	136950 32 h-index	123424 61 g-index
86 all docs	86 docs citations	86 times ranked	4473 citing authors

#	Article	IF	Citations
1	Validation of the CHIRPS satellite rainfall estimates over eastern Africa. Quarterly Journal of the Royal Meteorological Society, 2018, 144, 292-312.	2.7	404
2	The Vegetation Drought Response Index (VegDRI): A New Integrated Approach for Monitoring Drought Stress in Vegetation. GIScience and Remote Sensing, 2008, 45, 16-46.	5.9	363
3	Geospatial decision support for drought risk management. Communications of the ACM, 2003, 46, 35-37.	4.5	350
4	Assessing the evolution of soil moisture and vegetation conditions during the 2012 United States flash drought. Agricultural and Forest Meteorology, 2016, 218-219, 230-242.	4.8	228
5	Drought hazard assessment in the context of climate change for South Korea. Agricultural Water Management, 2015, 160, 106-117.	5.6	207
6	Evaluation of Satellite-Based Rainfall Estimates and Application to Monitor Meteorological Drought for the Upper Blue Nile Basin, Ethiopia. Remote Sensing, 2017, 9, 669.	4.0	168
7	Use of remote sensing indicators to assess effects of drought and human-induced land degradation on ecosystem health in Northeastern Brazil. Remote Sensing of Environment, 2018, 213, 129-143.	11.0	150
8	Urban drought challenge to 2030 sustainable development goals. Science of the Total Environment, 2019, 693, 133536.	8.0	147
9	Validation of new satellite rainfall products over the Upper Blue Nile Basin, Ethiopia. Atmospheric Measurement Techniques, 2018, 11, 1921-1936.	3.1	133
10	Evaluating satellite-derived long-term historical precipitation datasets for drought monitoring in Chile. Atmospheric Research, 2017, 186, 26-42.	4.1	119
11	Comparison of the Performance of Six Drought Indices in Characterizing Historical Drought for the Upper Blue Nile Basin, Ethiopia. Geosciences (Switzerland), 2018, 8, 81.	2.2	108
12	A hybrid approach for detecting corn and soybean phenology with time-series MODIS data. Remote Sensing of Environment, 2016, 181, 237-250.	11.0	102
13	A new approach for predicting drought-related vegetation stress: Integrating satellite, climate, and biophysical data over the U.S. central plains. ISPRS Journal of Photogrammetry and Remote Sensing, 2005, 59, 244-253.	11.1	87
14	Estimation of Daily Air Temperature Based on MODIS Land Surface Temperature Products over the Corn Belt in the US. Remote Sensing, 2015, 7, 951-970.	4.0	72
15	Climate change and population growth impacts on surface water supply and demand of Addis Ababa, Ethiopia. Climate Risk Management, 2017, 18, 21-33.	3.2	64
16	Prediction of drought-induced reduction of agricultural productivity in Chile from MODIS, rainfall estimates, and climate oscillation indices. Remote Sensing of Environment, 2018, 219, 15-30.	11.0	64
17	Drought Monitoring Using Data Mining Techniques: A Case Study for Nebraska, USA. Natural Hazards, 2004, 33, 137-159.	3.4	62
18	Influence of urbanization-driven land use/cover change on climate: The case of Addis Ababa, Ethiopia. Physics and Chemistry of the Earth, 2018, 105, 212-223.	2.9	62

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19	The need for integration of drought monitoring tools for proactive food security management in subâ€Saharan Africa. Natural Resources Forum, 2008, 32, 265-279.	3.6	53
20	Evaluating a satellite-based seasonal evapotranspiration product and identifying its relationship with other satellite-derived products and crop yield: A case study for Ethiopia. International Journal of Applied Earth Observation and Geoinformation, 2015, 40, 39-54.	2.8	53
21	Satelliteâ€based hybrid drought monitoring tool for prediction of vegetation condition in Eastern Africa: A case study for Ethiopia. Water Resources Research, 2014, 50, 2176-2190.	4.2	50
22	Potential extents for ENSO-driven hydrologic drought forecasts in the United States. Climatic Change, 2010, 101, 575-597.	3.6	49
23	Assessment of Vegetation Response to Drought in Nebraska Using Terra-MODIS Land Surface Temperature and Normalized Difference Vegetation Index. GIScience and Remote Sensing, 2011, 48, 432-455.	5.9	49
24	Flash drought onset over the contiguous United States: sensitivity of inventories and trends to quantitative definitions. Hydrology and Earth System Sciences, 2021, 25, 565-581.	4.9	47
25	Developing a Remote Sensing-Based Combined Drought Indicator Approach for Agricultural Drought Monitoring over Marathwada, India. Remote Sensing, 2020, 12, 2091.	4.0	45
26	Assessing the Vegetation Condition Impacts of the 2011 Drought across the U.S. Southern Great Plains Using the Vegetation Drought Response Index (VegDRI). Journal of Applied Meteorology and Climatology, 2015, 54, 153-169.	1.5	43
27	The Vegetation Outlook (VegOut): A New Method for Predicting Vegetation Seasonal Greenness. GIScience and Remote Sensing, 2010, 47, 25-52.	5.9	40
28	Spatio-temporal assessment of meteorological drought under the influence of varying record length: the case of Upper Blue Nile Basin, Ethiopia. Hydrological Sciences Journal, 0, , 1-16.	2.6	39
29	Upper Blue Nile basin water budget from a multi-model perspective. Journal of Hydrology, 2017, 555, 535-546.	5.4	39
30	Precipitation Extremes in Dynamically Downscaled Climate Scenarios over the Greater Horn of Africa. Atmosphere, 2018, 9, 112.	2.3	39
31	Developing a satellite-based combined drought indicator to monitor agricultural drought: a case study for Ethiopia. GIScience and Remote Sensing, 2019, 56, 718-748.	5.9	39
32	Building the vegetation drought response index for Canada (VegDRI-Canada) to monitor agricultural drought: first results. GIScience and Remote Sensing, 2017, 54, 230-257.	5.9	37
33	Agricultural Drought Assessment in East Asia Using Satellite-Based Indices. Remote Sensing, 2020, 12, 444.	4.0	31
34	Discovering Associations between Climatic and Oceanic Parameters to Monitor Drought in Nebraska Using Data-Mining Techniques. Journal of Climate, 2005, 18, 1541-1550.	3.2	26
35	Drought Occurrence in Central European Mountainous Region (Tatra National Park, Slovakia) within the Period 1961â€“2010. Advances in Meteorology, 2015, 2015, 1-8.	1.6	24
36	Developing the vegetation drought response index for South Korea (VegDRI-SKorea) to assess the vegetation condition during drought events. International Journal of Remote Sensing, 2018, 39, 1548-1574.	2.9	21

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37	The Grand Ethiopian Renaissance Dam: Source of Cooperation or Contention?. Journal of Water Resources Planning and Management - ASCE, 2016, 142, .	2.6	20
38	Linking Seasonal Predictions to Decision-Making and Disaster Management in the Greater Horn of Africa. Bulletin of the American Meteorological Society, 2016, 97, ES89-ES92.	3.3	18
39	Crop model and weather data generation evaluation for conservation agriculture in Ethiopia. Field Crops Research, 2018, 228, 122-134.	5.1	18
40	Drought Prediction System for Improved Climate Change Mitigation. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 4032-4037.	6.3	16
41	Participatory Research Workshop on Seasonal Prediction of Hydroclimatic Extremes in the Greater Horn of Africa. Bulletin of the American Meteorological Society, 2015, 96, ES139-ES142.	3.3	16
42	Identifying the relationships of climate and physiological responses of a beech forest using the Standardised Precipitation Index: a case study for Slovakia. Journal of Hydrology and Hydromechanics, 2016, 64, 246-251.	2.0	15
43	Resilience to Large, â€œCatastrophicâ€•Wildfires in North America's Grassland Biome. Earth's Future, 2020, 8, e2020EF001487.	6.3	14
44	Downscaling Africaâ€™s Drought Forecasts through Integration of Indigenous and Scientific Drought Forecasts Using Fuzzy Cognitive Maps. Geosciences (Switzerland), 2018, 8, 135.	2.2	13
45	Drought Analyses of the HornÃ© PoÅ¾itavie Region (Slovakia) in the Period 1966â€“2013. Advances in Meteorology, 2019, 2019, 1-10.	1.6	13
46	Soil Moisture Monitoring Using Remote Sensing Data and a Stepwise-Cluster Prediction Model: The Case of Upper Blue Nile Basin, Ethiopia. Remote Sensing, 2019, 11, 125.	4.0	13
47	Assimilation of leaf Area Index from multisource earth observation data into the WOFOST model for sugarcane yield estimation. International Journal of Remote Sensing, 2022, 43, 698-720.	2.9	13
48	Vegetation condition prediction for drought monitoring in pastoralist areas: a case study in Ethiopia. International Journal of Remote Sensing, 2018, 39, 4599-4615.	2.9	12
49	A review of drought monitoring using remote sensing and data mining methods. , 2020, , .		12
50	Combined Use of Sentinel-1 SAR and Landsat Sensors Products for Residual Soil Moisture Retrieval over Agricultural Fields in the Upper Blue Nile Basin, Ethiopia. Sensors, 2020, 20, 3282.	3.8	12
51	Evaluation of Remotely Sensed Precipitation Estimates from the NASA POWER Project for Drought Detection Over Jordan. Earth Systems and Environment, 2021, 5, 561-573.	6.2	12
52	Building A High-Resolution Vegetation Outlook Model to Monitor Agricultural Drought for the Upper Blue Nile Basin, Ethiopia. Remote Sensing, 2019, 11, 371.	4.0	10
53	Exploring VIIRS Continuity with MODIS in an Expedited Capability for Monitoring Drought-Related Vegetation Conditions. Remote Sensing, 2021, 13, 1210.	4.0	9
54	Information Mining from Heterogeneous Data Sources: A Case Study on Drought Predictions. Information (Switzerland), 2017, 8, 79.	2.9	8

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55	Spatial and temporal trends and variability of rainfall using long-term satellite product over the Upper Blue Nile Basin in Ethiopia. Remote Sensing in Earth Systems Sciences, 2021, 4, 199-215.	1.8	8
56	Monitoring Residual Soil Moisture and Its Association to the Long-Term Variability of Rainfall over the Upper Blue Nile Basin in Ethiopia. Remote Sensing, 2020, 12, 2138.	4.0	7
57	Evaluating satellite-derived long-term historical precipitation datasets for drought monitoring in Chile. , 2016, , .		6
58	A Satelliteâ€Based Assessment of the Relative Contribution of Hydroclimatic Variables on Vegetation Growth in Global Agricultural and Nonagricultural Regions. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD033228.	3.3	6
59	Preliminary assessment of an integrated SMOS and MODIS application for global agricultural drought monitoring. , 2017, , .		5
60	Improving National and Regional Drought Early Warning Systems in the Greater Horn of Africa. Bulletin of the American Meteorological Society, 2018, 99, ES135-ES138.	3.3	5
61	A statistical evaluation of Earth-observation-based composite drought indices for a localized assessment of agricultural drought in Pakistan. International Journal of Applied Earth Observation and Geoinformation, 2022, 106, 102646.	2.8	5
62	Nutritional status of children aged 0â€“60 months in two drought-prone areas of Ethiopia. South African Journal of Clinical Nutrition, 2020, 33, 152-157.	0.7	4
63	Forest Drought Response Index (ForDRI): A New Combined Model to Monitor Forest Drought in the Eastern United States. Remote Sensing, 2020, 12, 3605.	4.0	4
64	Drought Monitoring in Food-Insecure Areas of Ethiopia by Using Satellite Technologies. Climate Change Management, 2011, , 183-200.	0.8	4
65	The Application of Data Mining for Drought Monitoring and Prediction. , 2009, , 278-289.		4
66	Satellite-based Hybrid Drought Assessment using Vegetation Drought Response Index in South Korea (VegDRI-SKorea). Journal of the Korean Society of Agricultural Engineers, 2015, 57, 1-9.	0.1	4
67	Estimating Leaf Area Index and biomass of sugarcane based on Gaussian process regression using Landsat 8 and Sentinel 1A observations. International Journal of Image and Data Fusion, 2023, 14, 58-88.	1.7	4
68	Empowerment and Tech Adoption: Introducing the Treadle Pump Triggers Farmersâ€™ Innovation in Eastern Ethiopia. Sustainability, 2018, 10, 3268.	3.2	3
69	Evaluation of Regional Climate Models (RCMs) Using Precipitation and Temperature-Based Climatic Indices: A Case Study of Florida, USA. Water (Switzerland), 2021, 13, 2411.	2.7	3
70	Advancements in Satellite Remote Sensing for Drought Monitoring. Drought and Water Crises, 2017, , 225-258.	0.1	3
71	The Vegetation Outlook (VegOut): A New Tool for Providing Outlooks of General Vegetation Conditions Using Data Mining Techniques. , 2007, , .		2
72	Enhancing Dynamical Seasonal Predictions through Objective Regionalization. Journal of Applied Meteorology and Climatology, 2017, 56, 1431-1442.	1.5	2

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73	Earth Observation and Climate Services for Food Security and Agricultural Decision Making in South and Southeast Asia. Bulletin of the American Meteorological Society, 2019, 100, ES171-ES174.	3.3	2
74	Linking seasonal drought product information to decision makers in a data-sparse region: A case study in the Greater Horn of Africa. Remote Sensing Applications: Society and Environment, 2019, 14, 200-206.	1.5	2
75	Climate Impacts on Hydrology in the Central United States: Application to Forecast Capability in the Republican River Basin. , 2008, , .		1
76	Drought information mining from satellite images for improved climate change mitigation. , 2012, , .		1
77	Improving drought risk modelling: using multiple periods of satellite data with ensembles of data mining algorithms. International Journal of Society Systems Science, 2014, 6, 143.	0.1	0
78	Algorithm and Feature Selection for VegOut: A Vegetation Condition Prediction Tool. Lecture Notes in Computer Science, 2009, , 107-120.	1.3	0