

# Brian D Wardlow

## List of Publications by Year in descending order

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Version: 2024-02-01

79  
papers

7,318  
citations

81839

39  
h-index

82499

72  
g-index

80  
all docs

80  
docs citations

80  
times ranked

7290  
citing authors

#	ARTICLE	IF	CITATIONS
1	Monitoring Climate Impacts on Annual Forage Production across U.S. Semi-Arid Grasslands. <i>Remote Sensing</i> , 2022, 14, 4.	1.8	10
2	Exploring VIIRS Continuity with MODIS in an Expedited Capability for Monitoring Drought-Related Vegetation Conditions. <i>Remote Sensing</i> , 2021, 13, 1210.	1.8	9
3	A Satellite-Based Assessment of the Relative Contribution of Hydroclimatic Variables on Vegetation Growth in Global Agricultural and Nonagricultural Regions. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD033228.	1.2	6
4	A Novel Strategy to Reconstruct NDVI Time-Series with High Temporal Resolution from MODIS Multi-Temporal Composite Products. <i>Remote Sensing</i> , 2021, 13, 1397.	1.8	11
5	Ecophysio-optical traits of semiarid Nebraska grasslands under different <i>Juniperus virginiana</i> and <i>Pinus ponderosa</i> canopy covers. <i>Ecological Indicators</i> , 2021, 131, 108159.	2.6	3
6	Errors associated with atmospheric correction methods for airborne imaging spectroscopy: Implications for vegetation indices and plant traits. <i>Remote Sensing of Environment</i> , 2021, 265, 112663.	4.6	8
7	Simulated Atmospheric Response to Four Projected Land-Use Land-Cover Change Scenarios for 2050 in the North-Central United States. <i>Earth Interactions</i> , 2021, 25, 177-194.	0.7	1
8	Towards Routine Mapping of Crop Emergence within the Season Using the Harmonized Landsat and Sentinel-2 Dataset. <i>Remote Sensing</i> , 2021, 13, 5074.	1.8	11
9	Mapping sub-field maize yields in Nebraska, USA by combining remote sensing imagery, crop simulation models, and machine learning. <i>Precision Agriculture</i> , 2020, 21, 678-694.	3.1	15
10	Calibration of a common shortwave multispectral camera system for quantitative agricultural applications. <i>Precision Agriculture</i> , 2020, 21, 922-935.	3.1	4
11	A review of vegetation phenological metrics extraction using time-series, multispectral satellite data. <i>Remote Sensing of Environment</i> , 2020, 237, 111511.	4.6	358
12	Developing a Remote Sensing-Based Combined Drought Indicator Approach for Agricultural Drought Monitoring over Marathwada, India. <i>Remote Sensing</i> , 2020, 12, 2091.	1.8	45
13	PhenoCrop: An integrated satellite-based framework to estimate physiological growth stages of corn and soybeans. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2020, 92, 102188.	1.4	9
14	Connections between the hydrological cycle and crop yield in the rainfed U.S. Corn Belt. <i>Journal of Hydrology</i> , 2020, 590, 125398.	2.3	21
15	Resilience to Large, "Catastrophic" Wildfires in North America's Grassland Biome. <i>Earth's Future</i> , 2020, 8, e2020EF001487.	2.4	14
16	Forest Drought Response Index (ForDRI): A New Combined Model to Monitor Forest Drought in the Eastern United States. <i>Remote Sensing</i> , 2020, 12, 3605.	1.8	4
17	Quantifying irrigation cooling benefits to maize yield in the US Midwest. <i>Global Change Biology</i> , 2020, 26, 3065-3078.	4.2	68
18	Agricultural Drought Assessment in East Asia Using Satellite-Based Indices. <i>Remote Sensing</i> , 2020, 12, 444.	1.8	31

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19	The role of topography, soil, and remotely sensed vegetation condition towards predicting crop yield. <i>Field Crops Research</i> , 2020, 252, 107788.	2.3	30
20	Urban drought challenge to 2030 sustainable development goals. <i>Science of the Total Environment</i> , 2019, 693, 133536.	3.9	147
21	Mapping the Spatial-Temporal Dynamics of Vegetation Response Lag to Drought in a Semi-Arid Region. <i>Remote Sensing</i> , 2019, 11, 1873.	1.8	33
22	Monitoring Drought Impact on Annual Forage Production in Semi-arid Grasslands: A Case Study of Nebraska Sandhills. <i>Remote Sensing</i> , 2019, 11, 2106.	1.8	10
23	Assessing responses of <i>Betula papyrifera</i> to climate variability in a remnant population along the Niobrara River Valley in Nebraska, U.S.A., through dendroecological and remote-sensing techniques. <i>Canadian Journal of Forest Research</i> , 2019, 49, 423-433.	0.8	9
24	Developing a satellite-based combined drought indicator to monitor agricultural drought: a case study for Ethiopia. <i>GIScience and Remote Sensing</i> , 2019, 56, 718-748.	2.4	39
25	Field-scale mapping of evaporative stress indicators of crop yield: An application over Mead, NE, USA. <i>Remote Sensing of Environment</i> , 2018, 210, 387-402.	4.6	75
26	Developing the vegetation drought response index for South Korea (VegDRI-SKorea) to assess the vegetation condition during drought events. <i>International Journal of Remote Sensing</i> , 2018, 39, 1548-1574.	1.3	21
27	A high-performance and in-season classification system of field-level crop types using time-series Landsat data and a machine learning approach. <i>Remote Sensing of Environment</i> , 2018, 210, 35-47.	4.6	324
28	Imaging Spectrometry and Fluorometry in Support of Flex: What Can We Learn from Multi-Scale Experiments?. , 2018, , .		0
29	Use of remote sensing indicators to assess effects of drought and human-induced land degradation on ecosystem health in Northeastern Brazil. <i>Remote Sensing of Environment</i> , 2018, 213, 129-143.	4.6	150
30	Developing a Remotely Sensed Drought Monitoring Indicator for Morocco. <i>Geosciences (Switzerland)</i> , 2018, 8, 55.	1.0	45
31	Priority questions in multidisciplinary drought research. <i>Climate Research</i> , 2018, 75, 241-260.	0.4	35
32	Building the vegetation drought response index for Canada (VegDRI-Canada) to monitor agricultural drought: first results. <i>GIScience and Remote Sensing</i> , 2017, 54, 230-257.	2.4	37
33	Mesoscale Modeling of the Meteorological Impacts of Irrigation during the 2012 Central Plains Drought. <i>Journal of Applied Meteorology and Climatology</i> , 2017, 56, 1259-1283.	0.6	13
34	Evaluating satellite-derived long-term historical precipitation datasets for drought monitoring in Chile. <i>Atmospheric Research</i> , 2017, 186, 26-42.	1.8	119
35	Preliminary assessment of an integrated SMOS and MODIS application for global agricultural drought monitoring. , 2017, , .		5
36	Information Mining from Heterogeneous Data Sources: A Case Study on Drought Predictions. <i>Information (Switzerland)</i> , 2017, 8, 79.	1.7	8

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37	Advancements in Satellite Remote Sensing for Drought Monitoring. Drought and Water Crises, 2017, , 225-258.	0.1	3
38	A Multi-sensor View of the 2012 Central Plains Drought from Space. Frontiers in Environmental Science, 2016, 4, .	1.5	8
39	Remotely sensed high resolution irrigated area mapping in India for 2000 to 2015. Scientific Data, 2016, 3, 160118.	2.4	124
40	A hybrid approach for detecting corn and soybean phenology with time-series MODIS data. Remote Sensing of Environment, 2016, 181, 237-250.	4.6	102
41	Evaluating satellite-derived long-term historical precipitation datasets for drought monitoring in Chile. , 2016, , .		6
42	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.	1.9	228
43	Soil moisture trends in the Czech Republic between 1961 and 2012. International Journal of Climatology, 2015, 35, 3733-3747.	1.5	61
44	Remote sensing of drought: Progress, challenges and opportunities. Reviews of Geophysics, 2015, 53, 452-480.	9.0	605
45	Facilitating the Use of Drought Early Warning Information through Interactions with Agricultural Stakeholders. Bulletin of the American Meteorological Society, 2015, 96, 1073-1078.	1.7	64
46	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.	1.8	72
47	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.	0.6	43
48	A multi-scale accuracy assessment of the MODIS irrigated agriculture data-set (MIrAD) for the state of Nebraska, USA. GIScience and Remote Sensing, 2014, 51, 575-592.	2.4	21
49	Monitoring the effects of rapid onset of drought on non-irrigated maize with agronomic data and climate-based drought indices. Agricultural and Forest Meteorology, 2014, 191, 1-11.	1.9	83
50	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
51	An Intercomparison of Drought Indicators Based on Thermal Remote Sensing and NLDAS-2 Simulations with U.S. Drought Monitor Classifications. Journal of Hydrometeorology, 2013, 14, 1035-1056.	0.7	194
52	Consequences of climate change for the soil climate in Central Europe and the central plains of the United States. Climatic Change, 2013, 120, 405-418.	1.7	69
53	Relationships between vegetation indices and root zone soil moisture under maize and soybean canopies in the US Corn Belt: a comparative study using a close-range sensing approach. International Journal of Remote Sensing, 2013, 34, 2814-2828.	1.3	14
54	Non-invasive estimation of relative water content in soybean leaves using infrared thermography. Israel Journal of Plant Sciences, 2012, 60, 25-36.	0.3	8

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55	An alternative method using digital cameras for continuous monitoring of crop status. <i>Agricultural and Forest Meteorology</i> , 2012, 154-155, 113-126.	1.9	135
56	Application of day and night digital photographs for estimating maize biophysical characteristics. <i>Precision Agriculture</i> , 2012, 13, 285-301.	3.1	32
57	Detecting Spatiotemporal Changes of Corn Developmental Stages in the U.S. Corn Belt Using MODIS WDRVI Data. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2011, 49, 1926-1936.	2.7	44
58	Estimating daily gross primary production of maize based only on MODIS WDRVI and shortwave radiation data. <i>Remote Sensing of Environment</i> , 2011, 115, 3091-3101.	4.6	48
59	Evaluation of Drought Indices Based on Thermal Remote Sensing of Evapotranspiration over the Continental United States. <i>Journal of Climate</i> , 2011, 24, 2025-2044.	1.2	391
60	Assessment of Vegetation Response to Drought in Nebraska Using Terra-MODIS Land Surface Temperature and Normalized Difference Vegetation Index. <i>GIScience and Remote Sensing</i> , 2011, 48, 432-455.	2.4	49
61	Effects of drought on avian community structure. <i>Global Change Biology</i> , 2010, 16, 2158-2170.	4.2	81
62	A Two-Step Filtering approach for detecting maize and soybean phenology with time-series MODIS data. <i>Remote Sensing of Environment</i> , 2010, 114, 2146-2159.	4.6	241
63	Combined effects of heat waves and droughts on avian communities across the conterminous United States. <i>Ecosphere</i> , 2010, 1, 1-22.	1.0	57
64	Using enhanced GRACE water storage data to improve drought detection by the U.S. and North American Drought Monitors. , 2010, , .		10
65	The Vegetation Outlook (VegOut): A New Method for Predicting Vegetation Seasonal Greenness. <i>GIScience and Remote Sensing</i> , 2010, 47, 25-52.	2.4	40
66	A Comparative Analysis of Phenological Curves for Major Crops in Kansas. <i>GIScience and Remote Sensing</i> , 2010, 47, 241-259.	2.4	31
67	A comparison of MODIS 250-m EVI and NDVI data for crop mapping: a case study for southwest Kansas. <i>International Journal of Remote Sensing</i> , 2010, 31, 805-830.	1.3	118
68	Algorithm and Feature Selection for VegOut: A Vegetation Condition Prediction Tool. <i>Lecture Notes in Computer Science</i> , 2009, , 107-120.	1.0	0
69	Large-area crop mapping using time-series MODIS 250m NDVI data: An assessment for the U.S. Central Great Plains. <i>Remote Sensing of Environment</i> , 2008, 112, 1096-1116.	4.6	598
70	The need for integration of drought monitoring tools for proactive food security management in sub-Saharan Africa. <i>Natural Resources Forum</i> , 2008, 32, 265-279.	1.8	53
71	Evaluation of MODIS NDVI and NDWI for vegetation drought monitoring using Oklahoma Mesonet soil moisture data. <i>Geophysical Research Letters</i> , 2008, 35, .	1.5	206
72	The Vegetation Drought Response Index (VegDRI): A New Integrated Approach for Monitoring Drought Stress in Vegetation. <i>GIScience and Remote Sensing</i> , 2008, 45, 16-46.	2.4	363

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73	Multitemporal, Moderate-Spatial-Resolution Remote Sensing of Modern Agricultural Production and Land Modification in the Brazilian Amazon. <i>GIScience and Remote Sensing</i> , 2007, 44, 117-148.	2.4	63
74	The Vegetation Outlook (VegOut): A New Tool for Providing Outlooks of General Vegetation Conditions Using Data Mining Techniques. , 2007, , .		2
75	A five-year analysis of MODIS NDVI and NDWI for grassland drought assessment over the central Great Plains of the United States. <i>Geophysical Research Letters</i> , 2007, 34, .	1.5	413
76	An evaluation of MODIS 250m data for green LAI estimation in crops. <i>Geophysical Research Letters</i> , 2007, 34, .	1.5	58
77	Analysis of time-series MODIS 250m vegetation index data for crop classification in the U.S. Central Great Plains. <i>Remote Sensing of Environment</i> , 2007, 108, 290-310.	4.6	690
78	Using USDA Crop Progress Data for the Evaluation of Greenup Onset Date Calculated from MODIS 250-Meter Data. <i>Photogrammetric Engineering and Remote Sensing</i> , 2006, 72, 1225-1234.	0.3	130
79	A State-Level Comparative Analysis of the GAP and NLCD Land-Cover Data Sets. <i>Photogrammetric Engineering and Remote Sensing</i> , 2003, 69, 1387-1397.	0.3	30