

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	Analysis of time-series MODIS 250Åm 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
2	Remote sensing of drought: Progress, challenges and opportunities. <i>Reviews of Geophysics</i> , 2015, 53, 452-480.	9.0	605
3	Large-area crop mapping using time-series MODIS 250Åm NDVI data: An assessment for the U.S. Central Great Plains. <i>Remote Sensing of Environment</i> , 2008, 112, 1096-1116.	4.6	598
4	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
5	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
6	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
7	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
8	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
9	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
10	Assessing the evolution of soil moisture and vegetation conditions during the 2012 United States flash drought. <i>Agricultural and Forest Meteorology</i> , 2016, 218-219, 230-242.	1.9	228
11	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
12	An Intercomparison of Drought Indicators Based on Thermal Remote Sensing and NLDAS-2 Simulations with U.S. Drought Monitor Classifications. <i>Journal of Hydrometeorology</i> , 2013, 14, 1035-1056.	0.7	194
13	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
14	Urban drought challenge to 2030 sustainable development goals. <i>Science of the Total Environment</i> , 2019, 693, 133536.	3.9	147
15	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
16	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
17	Remotely sensed high resolution irrigated area mapping in India for 2000 to 2015. <i>Scientific Data</i> , 2016, 3, 160118.	2.4	124
18	Evaluating satellite-derived long-term historical precipitation datasets for drought monitoring in Chile. <i>Atmospheric Research</i> , 2017, 186, 26-42.	1.8	119

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19	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
20	A hybrid approach for detecting corn and soybean phenology with time-series MODIS data. <i>Remote Sensing of Environment</i> , 2016, 181, 237-250.	4.6	102
21	Monitoring the effects of rapid onset of drought on non-irrigated maize with agronomic data and climate-based drought indices. <i>Agricultural and Forest Meteorology</i> , 2014, 191, 1-11.	1.9	83
22	Effects of drought on avian community structure. <i>Global Change Biology</i> , 2010, 16, 2158-2170.	4.2	81
23	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
24	Estimation of Daily Air Temperature Based on MODIS Land Surface Temperature Products over the Corn Belt in the US. <i>Remote Sensing</i> , 2015, 7, 951-970.	1.8	72
25	Consequences of climate change for the soil climate in Central Europe and the central plains of the United States. <i>Climatic Change</i> , 2013, 120, 405-418.	1.7	69
26	Quantifying irrigation cooling benefits to maize yield in the US Midwest. <i>Global Change Biology</i> , 2020, 26, 3065-3078.	4.2	68
27	Facilitating the Use of Drought Early Warning Information through Interactions with Agricultural Stakeholders. <i>Bulletin of the American Meteorological Society</i> , 2015, 96, 1073-1078.	1.7	64
28	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
29	Soil moisture trends in the Czech Republic between 1961 and 2012. <i>International Journal of Climatology</i> , 2015, 35, 3733-3747.	1.5	61
30	An evaluation of MODIS 250m data for green LAI estimation in crops. <i>Geophysical Research Letters</i> , 2007, 34, .	1.5	58
31	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
32	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
33	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
34	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
35	Developing a Remotely Sensed Drought Monitoring Indicator for Morocco. <i>Geosciences (Switzerland)</i> , 2018, 8, 55.	1.0	45
36	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

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37	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
38	Assessing the Vegetation Condition Impacts of the 2011 Drought across the U.S. Southern Great Plains Using the Vegetation Drought Response Index (VegDRI). <i>Journal of Applied Meteorology and Climatology</i> , 2015, 54, 153-169.	0.6	43
39	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
40	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
41	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
42	Priority questions in multidisciplinary drought research. <i>Climate Research</i> , 2018, 75, 241-260.	0.4	35
43	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
44	Application of day and night digital photographs for estimating maize biophysical characteristics. <i>Precision Agriculture</i> , 2012, 13, 285-301.	3.1	32
45	A Comparative Analysis of Phenological Curves for Major Crops in Kansas. <i>GIScience and Remote Sensing</i> , 2010, 47, 241-259.	2.4	31
46	Agricultural Drought Assessment in East Asia Using Satellite-Based Indices. <i>Remote Sensing</i> , 2020, 12, 444.	1.8	31
47	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
48	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
49	A multi-scale accuracy assessment of the MODIS irrigated agriculture data-set (MIrAD) for the state of Nebraska, USA. <i>GIScience and Remote Sensing</i> , 2014, 51, 575-592.	2.4	21
50	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
51	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
52	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
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. <i>International Journal of Remote Sensing</i> , 2013, 34, 2814-2828.	1.3	14
54	Resilience to Large, Catastrophic Wildfires in North America's Grassland Biome. <i>Earth's Future</i> , 2020, 8, e2020EF001487.	2.4	14

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55	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
56	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
57	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
58	Using enhanced GRACE water storage data to improve drought detection by the U.S. and North American Drought Monitors. , 2010, , .		10
59	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
60	Monitoring Climate Impacts on Annual Forage Production across U.S. Semi-Arid Grasslands. <i>Remote Sensing</i> , 2022, 14, 4.	1.8	10
61	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
62	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
63	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
64	Non-invasive estimation of relative water content in soybean leaves using infrared thermography. <i>Israel Journal of Plant Sciences</i> , 2012, 60, 25-36.	0.3	8
65	A Multi-sensor View of the 2012 Central Plains Drought from Space. <i>Frontiers in Environmental Science</i> , 2016, 4, .	1.5	8
66	Information Mining from Heterogeneous Data Sources: A Case Study on Drought Predictions. <i>Information (Switzerland)</i> , 2017, 8, 79.	1.7	8
67	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
68	Evaluating satellite-derived long-term historical precipitation datasets for drought monitoring in Chile. , 2016, , .		6
69	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
70	Preliminary assessment of an integrated SMOS and MODIS application for global agricultural drought monitoring. , 2017, , .		5
71	Calibration of a common shortwave multispectral camera system for quantitative agricultural applications. <i>Precision Agriculture</i> , 2020, 21, 922-935.	3.1	4
72	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

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73	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
74	Advancements in Satellite Remote Sensing for Drought Monitoring. <i>Drought and Water Crises</i> , 2017, , 225-258.	0.1	3
75	The Vegetation Outlook (VegOut): A New Tool for Providing Outlooks of General Vegetation Conditions Using Data Mining Techniques. , 2007, , .		2
76	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
77	Improving drought risk modelling: using multiple periods of satellite data with ensembles of data mining algorithms. <i>International Journal of Society Systems Science</i> , 2014, 6, 143.	0.1	0
78	Imaging Spectrometry and Fluorometry in Support of Flex: What Can We Learn from Multi-Scale Experiments?. , 2018, , .		0
79	Algorithm and Feature Selection for VegOut: A Vegetation Condition Prediction Tool. <i>Lecture Notes in Computer Science</i> , 2009, , 107-120.	1.0	0