William W Hargrove

List of Publications by Year
in descending order

64 papers	5,236 citations	159585 30 h-index	144013 57 g-index
66 all docs	66 docs citations	66 times ranked	7904 citing authors

#	Article	IF	Citations
1	<scp>CTFS</scp>â€Forest<scp>GEO</scp>: a worldwide network monitoring forests in an era of global change. Global Change Biology, 2015, 21, 528-549.	9.5	473
2	Effects of fire on landscape heterogeneity in Yellowstone National Park, Wyoming. Journal of Vegetation Science, 1994, 5, 731-742.	2.2	453
3	EFFECTS OF FIRE SIZE AND PATTERN ON EARLY SUCCESSION IN YELLOWSTONE NATIONAL PARK. Ecological Monographs, 1997, 67, 411-433.	5.4	429
4	Lacunarity analysis: A general technique for the analysis of spatial patterns. Physical Review E, 1996, 53, 5461-5468.	2.1	418
5	Ecological niches as stable distributional constraints on mammal species, with implications for Pleistocene extinctions and climate change projections for biodiversity. Global Ecology and Biogeography, 2004, 13, 305-314.	5.8	375
6	The projection of species distribution models and the problem of non-analog climate. Biodiversity and Conservation, 2009, 18, 2255-2261.	2.6	320
7	Pseudoreplication: a sine qua non for regional ecology. Landscape Ecology, 1992, 6, 251-258.	4.2	272
8	A continental strategy for the National Ecological Observatory Network. Frontiers in Ecology and the Environment, 2008, 6, 282-284.	4.0	246
9	Simulating fire patterns in heterogeneous landscapes. Ecological Modelling, 2000, 135, 243-263.	2.5	220
10	Potential of Multivariate Quantitative Methods for Delineation and Visualization of Ecoregions. Environmental Management, 2004, 34, S39-S60.	2.7	211
11	A global framework for monitoring phenological responses to climate change. Geophysical Research Letters, 2005, 32, n/a-n/a.	4.0	151
12	Assessment of MODIS NDVI time series data products for detecting forest defoliation by gypsy moth outbreaks. Remote Sensing of Environment, 2011, 115, 427-437.	11.0	123
13	Landscape-scale heterogeneity in lodgepole pine serotiny. Canadian Journal of Forest Research, 1994, 24, 897-903.	1.7	95
14	Mapcurves: a quantitative method for comparing categorical maps. Journal of Geographical Systems, 2006, 8, 187-208.	3.1	90
15	Mapping environments at risk under different global climate change scenarios. Ecology Letters, 2004, 8, 53-60.	6.4	84
16	New analysis reveals representativeness of the AmeriFlux network. Eos, 2003, 84, 529.	0.1	83
17	Use of the KÃ¶ppenâ€“Trewartha climate classification to evaluate climatic refugia in statistically derived ecoregions for the Peopleâ€™s Republic of China. Climatic Change, 2010, 98, 113-131.	3.6	77
18	Comparison of MODIS gross primary production estimates for forests across the U.S.A. with those generated by a simple process model, 3-PGS. Remote Sensing of Environment, 2007, 109, 500-509.	11.0	66

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19	Parallel k-Means Clustering for Quantitative Ecoregion Delineation Using Large Data Sets. Procedia Computer Science, 2011, 4, 1602-1611.	2.0	66
20	NEON: a hierarchically designed national ecological network. Frontiers in Ecology and the Environment, 2007, 5, 59-59.	4.0	65
21	The Effects of Low-Level Consumption by Canopy Arthropods on the Growth and Nutrient Dynamics of Black Locust and Red Maple Trees in the Southern Appalachians. Ecology, 1983, 64, 1040-1048.	3.2	62
22	Review of broad-scale drought monitoring of forests: Toward an integrated data mining approach. Forest Ecology and Management, 2016, 380, 346-358.	3.2	56
23	A Practical Map-Analysis Tool for Detecting Potential Dispersal Corridors. Landscape Ecology, 2005, 20, 361-373.	4.2	51
24	Predicting Spatial Distribution of Foragers over Large Resource Landscapes: A Modeling Analysis of the Ideal Free Distribution. Oikos, 1997, 79, 376.	2.7	46
25	Using Clustered Climate Regimes to Analyze and Compare Predictions from Fully Coupled General Circulation Models. Earth Interactions, 2005, 9, 1-27.	1.5	46
26	A Fractal Landscape Realizer for Generating Synthetic Maps. Ecology and Society, 2002, 6, .	0.9	46
27	Agro-ecoregionalization of Iowa using multivariate geographical clustering. Agriculture, Ecosystems and Environment, 2008, 123, 161-174.	5.3	44
28	Determining suitable locations for seed transfer under climate change: a global quantitative method. New Forests, 2012, 43, 581-599.	1.7	44
29	Mapping crops within the growing season across the United States. Remote Sensing of Environment, 2020, 251, 112048.	11.0	40
30	Representativeness-based sampling network design for the State of Alaska. Landscape Ecology, 2013, 28, 1567-1586.	4.2	39
31	The Do-It-Yourself Supercomputer. Scientific American, 2001, 285, 72-79.	1.0	31
32	Use of MODIS NDVI Products to Map Tree Mortality Levels in Forests Affected by Mountain Pine Beetle Outbreaks. Forests, 2019, 10, 811.	2.1	28
33	Biological Field Stations: Research Legacies and Sites for Serendipity. BioScience, 2009, 59, 300-310.	4.9	27
34	ENVIRONMENT: Environmental Monitoring Network for India. Science, 2007, 316, 204-205.	12.6	26
35	A United States national prioritization framework for tree species vulnerability to climate change. New Forests, 2017, 48, 275-300.	1.7	26
36	The Role of Soil Classification in Geographic Information System Modeling of Habitat Pattern: Threatened Calcareous Ecosystems. Ecosystems, 1999, 2, 524-538.	3.4	24

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37	Cluster Analysis-Based Approaches for Geospatiotemporal Data Mining of Massive Data Sets for Identification of Forest Threats. Procedia Computer Science, 2011, 4, 1612-1621.	2.0	24
38	Spring and Autumn Phenological Variability across Environmental Gradients of Great Smoky Mountains National Park, USA. Remote Sensing, 2017, 9, 407.	4.0	24
39	Visual Reconciliation of Alternative Similarity Spaces in Climate Modeling. IEEE Transactions on Visualization and Computer Graphics, 2014, 20, 1923-1932.	4.4	20
40	Data Mining in Earth System Science (DMESS 2011). Procedia Computer Science, 2011, 4, 1450-1455.	2.0	19
41	Climate-induced change of environmentally defined floristic domains: A conservation based vulnerability framework. Applied Geography, 2015, 63, 33-42.	3.7	18
42	Video Digitizer for the Rapid Measurement of Leaf Area Lost to Herbivorous Insects1. Annals of the Entomological Society of America, 1988, 81, 593-598.	2.5	16
43	Using dendronal signatures for feature extraction and retrieval. International Journal of Imaging Systems and Technology, 2000, 11, 243-253.	4.1	16
44	Constructive Contrasts Between Modeled and Measured Climate Responses Over a Regional Scale. Ecosystems, 2000, 3, 396-411.	3.4	15
45	Investigating habitat value to inform contaminant remediation options: Approach. Journal of Environmental Management, 2008, 88, 1436-1451.	7.8	13
46	Mapping ecoregions under climate change: a case study from the biological â€˜crossroadsâ€™ of three continents, Turkey. Landscape Ecology, 2019, 34, 35-50.	4.2	13
47	Monitoring Broadscale Vegetational Diversity and Change across North American Landscapes Using Land Surface Phenology. Forests, 2020, 11, 606.	2.1	13
48	Multivariate geographic clustering in a metacomputing environment using Globus. , 1999, , .		12
49	Title is missing!. Environmental Modeling and Assessment, 2000, 5, 125-137.	2.2	10
50	Transport in the subtropical lowermost stratosphere during the Cirrus Regional Study of Tropical Anvils and Cirrus Layersâ€“Florida Area Cirrus Experiment. Journal of Geophysical Research, 2007, 112, .	3.3	9
51	Identification and Visualization of Dominant Patterns and Anomalies in Remotely Sensed Vegetation Phenology Using a Parallel Tool for Principal Components Analysis. Procedia Computer Science, 2013, 18, 2396-2405.	2.0	9
52	Addressing multi-use issues in sustainable forest management with signal-transfer modeling. Forest Ecology and Management, 2002, 165, 295-304.	3.2	8
53	Characterization and Classification of Vegetation Canopy Structure and Distribution within the Great Smoky Mountains National Park Using LiDAR. , 2015, , .		7
54	A photographic technique for tracking herbivory on individual leaves through time *. Ecological Entomology, 1988, 13, 359-363.	2.2	6

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55	RAIN: A novel approach to computer-aided decision making in agriculture and forestry. Computers and Electronics in Agriculture, 1990, 4, 275-285.	7.7	5
56	A GIS/Simulation Framework for Assessing Change in Water Yield over Large Spatial Scales. Environmental Management, 2002, 29, 164-181.	2.7	4
57	Investigating habitat value to inform contaminant remediation options: Case study. Journal of Environmental Management, 2008, 88, 1452-1470.	7.8	4
58	Parallel Multivariate Spatio-Temporal Clustering of Large Ecological Datasets on Hybrid Supercomputers. , 2017, , .		4
59	An Implementation of the Pathway Analysis Through Habitat (PATH) Algorithm Using NetLogo. , 2012, , 211-222.		3
60	The Apache Longbowâ€“Hellfire Missile Test at Yuma Proving Ground: Ecological Risk Assessment for Tracked Vehicle Movement across Desert Pavement. Human and Ecological Risk Assessment (HERA), 2008, 14, 919-946.	3.4	2
61	The Apache Longbowâ€“Hellfire Missile Test at Yuma Proving Ground: Ecological Risk Assessment for Missile Firing. Human and Ecological Risk Assessment (HERA), 2008, 14, 898-918.	3.4	2
62	Parallel k-Means Clustering of Geospatial Data Sets Using Manycore CPU Architectures. , 2018, , .		2
63	Quantifying Seasonal Patterns in Disparate Environmental Variables Using the PolarMetrics R Package. , 2017, , .		1
64	The Apache Longbowâ€“Hellfire Missile Test at Yuma Proving Ground: Ecological Risk Assessment for Helicopter Overflight. Human and Ecological Risk Assessment (HERA), 2008, 14, 871-897.	3.4	0