Warren B Cohen

List of Publications by Citations

117 papers	16,478 citations	63 h-index	120 g-index
120 ext. papers	18,330 ext. citations	8.8 avg, IF	6.57 L-index

#	Paper	IF	Citations
117	Lidar Remote Sensing for Ecosystem Studies. *BioScience*, **2002**, 52, 19	5.7	1084
116	Detecting trends in forest disturbance and recovery using yearly Landsat time series: 1. LandTrendr Temporal segmentation algorithms. *Remote Sensing of Environment*, **2010**, 114, 2897-2910	13.2	906
115	Opening the archive: How free data has enabled the science and monitoring promise of Landsat. *Remote Sensing of Environment*, **2012**, 122, 2-10	13.2	720
114	Free access to Landsat imagery. *Science*, **2008**, 320, 1011	33.3	580
113	Landsat's Role in Ecological Applications of Remote Sensing. *BioScience*, **2004**, 54, 535	5.7	526
112	Relationships between Leaf Area Index and Landsat TM Spectral Vegetation Indices across Three Temperate Zone Sites. *Remote Sensing of Environment*, **1999**, 70, 52-68	13.2	437
111	Evaluation of MODIS NPP and GPP products across multiple biomes. *Remote Sensing of Environment* , **2006**, 102, 282-292	13.2	431
110	Estimates of forest canopy height and aboveground biomass using ICESat. *Geophysical Research Letters*, **2005**, 32, n/a-n/a	4.9	405
109	The global Landsat archive: Status, consolidation, and direction. *Remote Sensing of Environment*, **2016**, 185, 271-283	13.2	379
108	Landsat continuity: Issues and opportunities for land cover monitoring. *Remote Sensing of Environment*, **2008**, 112, 955-969	13.2	357
107	Detecting trends in forest disturbance and recovery using yearly Landsat time series: 2. TimeSync Tools for calibration and validation. *Remote Sensing of Environment*, **2010**, 114, 2911-2924	13.2	351
106	Use of Large-Footprint Scanning Airborne Lidar To Estimate Forest Stand Characteristics in the Western Cascades of Oregon. *Remote Sensing of Environment*, **1999**, 67, 298-308	13.2	351
105	Current status of Landsat program, science, and applications. *Remote Sensing of Environment*, **2019**, 225, 127-147	13.2	341
104	Comparison of Tasseled Cap-based Landsat data structures for use in forest disturbance detection. *Remote Sensing of Environment*, **2005**, 97, 301-310	13.2	338
103	North American forest disturbance mapped from a decadal Landsat record. *Remote Sensing of Environment*, **2008**, 112, 2914-2926	13.2	329
102	Quantification of live aboveground forest biomass dynamics with Landsat time-series and field inventory data: A comparison of empirical modeling approaches. *Remote Sensing of Environment*, **2010**, 114, 1053-1068	13.2	328
101	Lidar remote sensing of above-ground biomass in three biomes. *Global Ecology and Biogeography*, **2002**, 11, 393-399	6.1	326

100	An improved strategy for regression of biophysical variables and Landsat ETM+ data. *Remote Sensing of Environment*, **2003**, 84, 561-571	13.2	317
99	Trajectory-based change detection for automated characterization of forest disturbance dynamics. *Remote Sensing of Environment*, **2007**, 110, 370-386	13.2	315
98	Site-level evaluation of satellite-based global terrestrial gross primary production and net primary production monitoring. *Global Change Biology*, **2005**, 11, 666-684	11.4	264
97	Radiometric correction of multi-temporal Landsat data for characterization of early successional forest patterns in western Oregon. *Remote Sensing of Environment*, **2006**, 103, 16-26	13.2	252
96	Estimating structural attributes of Douglas-fir/western hemlock forest stands from landsat and SPOT imagery. *Remote Sensing of Environment*, **1992**, 41, 1-17	13.2	245
95	Integration of lidar and Landsat ETM+ data for estimating and mapping forest canopy height. *Remote Sensing of Environment*, **2002**, 82, 397-416	13.2	236
94	Remote sensing change detection tools for natural resource managers: Understanding concepts and tradeoffs in the design of landscape monitoring projects. *Remote Sensing of Environment*, **2009**, 113, 1382-1396	13.2	229
93	Semivariograms of digital imagery for analysis of conifer canopy structure. *Remote Sensing of Environment*, **1990**, 34, 167-178	13.2	225
92	Coordinating Methodologies for Scaling Landcover Classifications from Site-Specific to Global. *Remote Sensing of Environment*, **1999**, 70, 16-28	13.2	222
91	Bringing an ecological view of change to Landsat-based remote sensing. *Frontiers in Ecology and the Environment*, **2014**, 12, 339-346	5.5	219
90	Monitoring large areas for forest change using Landsat: Generalization across space, time and Landsat sensors. *Remote Sensing of Environment*, **2001**, 78, 194-203	13.2	201
89	Ecological Causes and Consequences of Demographic Change in the New West. *BioScience*, **2002**, 52, 151	5.7	194
88	Comparisons of land cover and LAI estimates derived from ETM+ and MODIS for four sites in North America: a quality assessment of 2000/2001 provisional MODIS products. *Remote Sensing of Environment*, **2003**, 88, 233-255	13.2	183
87	Forest disturbance across the conterminous United States from 1985–2012: The emerging dominance of forest decline. *Forest Ecology and Management*, **2016**, 360, 242-252	3.9	172
86	Using Landsat-derived disturbance history (1972–2010) to predict current forest structure. *Remote Sensing of Environment*, **2012**, 122, 146-165	13.2	172
85	Implementation of the LandTrendr Algorithm on Google Earth Engine. *Remote Sensing*, **2018**, 10, 691	5	169
84	Spatial and temporal patterns of forest disturbance and regrowth within the area of the Northwest Forest Plan. *Remote Sensing of Environment*, **2012**, 122, 117-133	13.2	169
83	A Landsat time series approach to characterize bark beetle and defoliator impacts on tree mortality and surface fuels in conifer forests. *Remote Sensing of Environment*, **2011**, 115, 3707-3718	13.2	165

82	Characterizing 23 Years (1972-95) of Stand Replacement Disturbance in Western Oregon Forests with Landsat Imagery. *Ecosystems*, **2002**, 5, 122-137	3.9	158
81	Hyperspectral versus multispectral data for estimating leaf area index in four different biomes. *Remote Sensing of Environment*, **2004**, 91, 508-520	13.2	155
80	Land cover mapping in an agricultural setting using multiseasonal Thematic Mapper data. *Remote Sensing of Environment*, **2001**, 76, 139-155	13.2	152
79	Assessment of forest biomass for use as energy. GIS-based analysis of geographical availability and locations of wood-fired power plants in Portugal. *Applied Energy*, **2010**, 87, 2551-2560	10.7	145
78	Modeling Percent Tree Canopy Cover. *Photogrammetric Engineering and Remote Sensing*, **2012**, 78, 715-727	2.6	137
77	Using Landsat-derived disturbance and recovery history and lidar to map forest biomass dynamics. *Remote Sensing of Environment*, **2014**, 151, 124-137	13.2	132
76	United States Forest Disturbance Trends Observed Using Landsat Time Series. *Ecosystems*, **2013**, 16, 1087-1104	3.9	113
75	Mapping forest change using stacked generalization: An ensemble approach. *Remote Sensing of Environment*, **2018**, 204, 717-728	13.2	112
74	How Similar Are Forest Disturbance Maps Derived from Different Landsat Time Series Algorithms?. *Forests*, **2017**, 8, 98	2.8	108
73	Two Decades of Carbon Flux from Forests of the Pacific Northwest. *BioScience*, **1996**, 46, 836-844	5.7	100
72	Geographic variability in lidar predictions of forest stand structure in the Pacific Northwest. *Remote Sensing of Environment*, **2005**, 95, 532-548	13.2	99
71	Prediction of understory vegetation cover with airborne lidar in an interior ponderosa pine forest. *Remote Sensing of Environment*, **2012**, 124, 730-741	13.2	98
70	Forest Disturbance and North American Carbon Flux. *Eos*, **2008**, 89, 105	1.5	97
69	Application of two regression-based methods to estimate the effects of partial harvest on forest structure using Landsat data. *Remote Sensing of Environment*, **2006**, 101, 115-126	13.2	95
68	A LandTrendr multispectral ensemble for forest disturbance detection. *Remote Sensing of Environment*, **2018**, 205, 131-140	13.2	94
67	Using remotely sensed data to construct and assess forest attribute maps and related spatial products. *Scandinavian Journal of Forest Research*, **2010**, 25, 340-367	1.7	91
66	Effects of spatial variability in light use efficiency on satellite-based NPP monitoring. *Remote Sensing of Environment*, **2002**, 80, 397-405	13.2	89
65	Distinguishing between live and dead standing tree biomass on the North Rim of Grand Canyon National Park, USA using small-footprint lidar data. *Remote Sensing of Environment*, **2009**, 113, 2499-2510	13.2	83

64	Spatial, spectral and temporal patterns of tropical forest cover change as observed with multiple scales of optical satellite data. *Remote Sensing of Environment*, **2007**, 106, 1-16	13.2	79
63	Monitoring coniferous forest biomass change using a Landsat trajectory-based approach. *Remote Sensing of Environment*, **2013**, 139, 277-290	13.2	78
62	Patterns of forest regrowth following clearcutting in western Oregon as determined from a Landsat time-series. *Forest Ecology and Management*, **2007**, 243, 259-273	3.9	78
61	Patterns of covariance between forest stand and canopy structure in the Pacific Northwest. *Remote Sensing of Environment*, **2005**, 95, 517-531	13.2	77
60	Continuous monitoring of land disturbance based on Landsat time series. *Remote Sensing of Environment*, **2020**, 238, 111116	13.2	77
59	Map Misclassification Can Cause Large Errors in Landscape Pattern Indices: Examples from Habitat Fragmentation. *Ecosystems*, **2006**, 9, 474-488	3.9	75
58	Key issues in making and using satellite-based maps in ecology: A primer. *Forest Ecology and Management*, **2006**, 222, 167-181	3.9	74
57	Comparison of regression and geostatistical methods for mapping Leaf Area Index (LAI) with Landsat ETM+ data over a boreal forest. *Remote Sensing of Environment*, **2005**, 96, 49-61	13.2	74
56	Comparison and assessment of coarse resolution land cover maps for Northern Eurasia. *Remote Sensing of Environment*, **2011**, 115, 3539-3553	13.2	64
55	Temporal versus spatial variation in leaf reflectance under changing water stress conditions. *International Journal of Remote Sensing*, **1991**, 12, 1865-1876	3.1	64
54	Estimation of crown biomass of Pinus pinaster stands and shrubland above-ground biomass using forest inventory data, remotely sensed imagery and spatial prediction models. *Ecological Modelling*, **2012**, 226, 22-35	3	58
53	LAND USE AND LAND COVER CHANGE IN THE GREATER YELLOWSTONE ECOSYSTEM: 1975–1995 **2003**, 13, 687-703		57
52	Alternative spatial resolutions and estimation of carbon flux over a managed forest landscape in Western Oregon. *Landscape Ecology*, **2000**, 15, 441-452	4.3	56
51	Detecting landscape changes in the interior of British Columbia from 1975 to 1992 using satellite imagery. *Canadian Journal of Forest Research*, **1998**, 28, 23-36	1.9	56
50	Predicting temperate conifer forest successional stage distributions with multitemporal Landsat Thematic Mapper imagery. *Remote Sensing of Environment*, **2007**, 106, 228-237	13.2	55
49	Empirical methods to compensate for a view-angle-dependent brightness gradient in AVIRIS imagery. *Remote Sensing of Environment*, **1997**, 62, 277-291	13.2	52
48	A forest vulnerability index based on drought and high temperatures. *Remote Sensing of Environment*, **2016**, 173, 314-325	13.2	51
47	Landsat-based monitoring of annual wetland change in the Willamette Valley of Oregon, USA from 1972 to 2012. *Wetlands Ecology and Management*, **2016**, 24, 73-92	2.1	50

46	The Relative Impact of Harvest and Fire upon Landscape-Level Dynamics of Older Forests: Lessons from the Northwest Forest Plan. *Ecosystems*, **2008**, 11, 1106-1119	3.9	50
45	Automated cloud and cloud shadow identification in Landsat MSS imagery for temperate ecosystems. *Remote Sensing of Environment*, **2015**, 169, 128-138	13.2	48
44	The normal fire environment Modeling environmental suitability for large forest wildfires using past, present, and future climate normals. *Forest Ecology and Management*, **2017**, 390, 173-186	3.9	45
43	Individual snag detection using neighborhood attribute filtered airborne lidar data. *Remote Sensing of Environment*, **2015**, 163, 165-179	13.2	43
42	Testing a Landsat-based approach for mapping disturbance causality in U.S. forests. *Remote Sensing of Environment*, **2017**, 195, 230-243	13.2	40
41	Improving estimates of forest disturbance by combining observations from Landsat time series with U.S. Forest Service Forest Inventory and Analysis data. *Remote Sensing of Environment*, **2014**, 154, 61-73	13.2	40
40	Relationship between LiDAR-derived forest canopy height and Landsat images. *International Journal of Remote Sensing*, **2010**, 31, 1261-1280	3.1	40
39	Decadal trends in net ecosystem production and net ecosystem carbon balance for a regional socioecological system. *Forest Ecology and Management*, **2011**, 262, 1318-1325	3.9	36
38	Mapping change of older forest with nearest-neighbor imputation and Landsat time-series. *Forest Ecology and Management*, **2012**, 272, 13-25	3.9	35
37	Ecological importance of intermediate windstorms rivals large, infrequent disturbances in the northern Great Lakes. *Ecosphere*, **2011**, 2, art2	3.1	35
36	Recent History of Large-Scale Ecosystem Disturbances in North America Derived from the AVHRR Satellite Record. *Ecosystems*, **2005**, 8, 808-824	3.9	35
35	Multiscale Assessment of Binary and Continuous Landcover Variables for MODIS Validation, Mapping, and Modeling Applications. *Remote Sensing of Environment*, **1999**, 70, 82-98	13.2	35
34	Estimating proportional change in forest cover as a continuous variable from multi-year MODIS data. *Remote Sensing of Environment*, **2008**, 112, 735-749	13.2	34
33	An empirical, integrated forest biomass monitoring system. *Environmental Research Letters*, **2018**, 13, 025004	6.2	32
32	Carbon Stores, Sinks, and Sources in Forests of Northwestern Russia: Can We Reconcile Forest Inventories with Remote Sensing Results?. *Climatic Change*, **2004**, 67, 257-272	4.5	32
31	Mapping post-fire habitat characteristics through the fusion of remote sensing tools. *Remote Sensing of Environment*, **2016**, 173, 294-303	13.2	31
30	Using Landsat Time-Series and LiDAR to Inform Aboveground Forest Biomass Baselines in Northern Minnesota, USA. *Canadian Journal of Remote Sensing*, **2017**, 43, 28-47	1.8	30
29	Evaluating Site-Specific and Generic Spatial Models of Aboveground Forest Biomass Based on Landsat Time-Series and LiDAR Strip Samples in the Eastern USA. *Remote Sensing*, **2017**, 9, 598	5	30

28	Snow-covered Landsat time series stacks improve automated disturbance mapping accuracy in forested landscapes. *Remote Sensing of Environment*, **2011**, 115, 3203-3219	13.2	28
27	Using object-oriented classification and high-resolution imagery to map fuel types in a Mediterranean region. *Journal of Geophysical Research*, **2006**, 111,		28
26	Quality control and assessment of interpreter consistency of annual land cover reference data in an operational national monitoring program. *Remote Sensing of Environment*, **2020**, 238, 111261	13.2	28
25	Selection of Remotely Sensed Data **2003**, 13-46		27
24	Detecting Trends in Landuse and Landcover Change of Nech Sar National Park, Ethiopia. *Environmental Management*, **2016**, 57, 137-47	3.1	26
23	Modeling early forest succession following clear-cutting in western Oregon. *Canadian Journal of Forest Research*, **2005**, 35, 1889-1900	1.9	26
22	High spatial resolution satellite observations for validation of MODIS land products: IKONOS observations acquired under the NASA Scientific Data Purchase. *Remote Sensing of Environment*, **2003**, 88, 100-110	13.2	26
21	Development of Landsat-based annual US forest disturbance history maps (1986–2010) in support of the North American Carbon Program (NACP). *Remote Sensing of Environment*, **2018**, 209, 312-326	13.2	22
20	Haiti's biodiversity threatened by nearly complete loss of primary forest. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, 11850-11855	11.5	22
19	Observation of Trends in Biomass Loss as a Result of Disturbance in the Conterminous U.S.: 1986–2004. *Ecosystems*, **2014**, 17, 142-157	3.9	21
18	Underestimating risks to the northern spotted owl in fire-prone forests: response to Hanson et al. *Conservation Biology*, **2010**, 24, 330-3; discussion 334-7	6	21
17	Satellite-based peatland mapping: Potential of the MODIS sensor. *Global and Planetary Change*, **2007**, 56, 248-257	4.2	19
16	Diversity of Algorithm and Spectral Band Inputs Improves Landsat Monitoring of Forest Disturbance. *Remote Sensing*, **2020**, 12, 1673	5	17
15	Assessing the Carbon Consequences of Western Juniper (Juniperus occidentalis) Encroachment Across Oregon, USA. *Rangeland Ecology and Management*, **2012**, 65, 223-231	2.2	17
14	Visual interpretation and time series modeling of Landsat imagery highlight drought's role in forest canopy declines. *Ecosphere*, **2018**, 9, e02195	3.1	15
13	An Introduction to Digital Methods in Remote Sensing of Forested Ecosystems: Focus on the Pacific Northwest, USA. *Environmental Management*, **1996**, 20, 421-35	3.1	15
12	Shifts in Forest Structure in Northwest Montana from 1972 to 2015 Using the Landsat Archive from Multispectral Scanner to Operational Land Imager. *Forests*, **2018**, 9, 157	2.8	15
11	A Method to Efficiently Apply a Biogeochemical Model to a Landscape. *Landscape Ecology*, **2006**, 21, 213-224	4.3	12

10	Aboveground biomass density models for NASA's Global Ecosystem Dynamics Investigation (GEDI) lidar mission. *Remote Sensing of Environment*, **2022**, 270, 112845	13.2	11
9	Northwest Forest Plan—the first 15 years (1994–2008): status and trends of late-successional and old-growth forests **2011**,		9
8	Three Decades of Land Cover Change in East Africa. *Land*, **2021**, 10, 150	3.5	6
7	Water-stress effects on heating-related water transport in woody plants. *Canadian Journal of Forest Research*, **1991**, 21, 199-206	1.9	5
6	Mapping Suitable Lewis's Woodpecker Nesting Habitat in a Post-Fire Landscape. *Northwest Science*, **2016**, 90, 421-432	0.8	5
5	Harmonization of forest disturbance datasets of the conterminous USA from 1986 to 2011. *Environmental Monitoring and Assessment*, **2017**, 189, 170	3.1	4
4	Integrating TimeSync Disturbance Detection and Repeat Forest Inventory to Predict Carbon Flux. *Forests*, **2019**, 10, 984	2.8	3
3	Reply to Wampler et al.: Deforestation and biodiversity loss should not be sugarcoated. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 5204	11.5	1
2	The Role of Remote Sensing in LTER Projects **2010**, 131-142		1
1	Scaling Gross Primary Production (GPP) over boreal and deciduous forest landscapes in support of MODIS GPP product validation. *Remote Sensing of Environment*, **2003**, 88, 256-256	13.2	