

Matthew C Hansen

List of Publications by Year in descending order

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Version: 2024-02-01

86
papers

16,127
citations

34076

52
h-index

62565

80
g-index

88
all docs

88
docs citations

88
times ranked

15839
citing authors

#	ARTICLE	IF	CITATIONS
1	Classifying drivers of global forest loss. <i>Science</i> , 2018, 361, 1108-1111.	6.0	1,233
2	Global land change from 1982 to 2016. <i>Nature</i> , 2018, 560, 639-643.	13.7	1,213
3	Deforestation driven by urban population growth and agricultural trade in the twenty-first century. <i>Nature Geoscience</i> , 2010, 3, 178-181.	5.4	1,070
4	A review of large area monitoring of land cover change using Landsat data. <i>Remote Sensing of Environment</i> , 2012, 122, 66-74.	4.6	781
5	Quantification of global gross forest cover loss. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 8650-8655.	3.3	709
6	Primary forest cover loss in Indonesia over 2000–2012. <i>Nature Climate Change</i> , 2014, 4, 730-735.	8.1	695
7	Carbon emissions from tropical deforestation and regrowth based on satellite observations for the 1980s and 1990s. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 14256-14261.	3.3	562
8	INCREASING ISOLATION OF PROTECTED AREAS IN TROPICAL FORESTS OVER THE PAST TWENTY YEARS. , 2005, 15, 19-26.		558
9	The last frontiers of wilderness: Tracking loss of intact forest landscapes from 2000 to 2013. <i>Science Advances</i> , 2017, 3, e1600821.	4.7	543
10	Web-enabled Landsat Data (WELD): Landsat ETM+ composited mosaics of the conterminous United States. <i>Remote Sensing of Environment</i> , 2010, 114, 35-49.	4.6	439
11	Mapping global forest canopy height through integration of GEDI and Landsat data. <i>Remote Sensing of Environment</i> , 2021, 253, 112165.	4.6	436
12	The Global Ecosystem Dynamics Investigation: High-resolution laser ranging of the Earth's forests and topography. <i>Science of Remote Sensing</i> , 2020, 1, 100002.	2.2	429
13	Global maps of twenty-first century forest carbon fluxes. <i>Nature Climate Change</i> , 2021, 11, 234-240.	8.1	425
14	A method for integrating MODIS and Landsat data for systematic monitoring of forest cover and change in the Congo Basin. <i>Remote Sensing of Environment</i> , 2008, 112, 2495-2513.	4.6	393
15	Quantifying forest cover loss in Democratic Republic of the Congo, 2000–2010, with Landsat ETM+ data. <i>Remote Sensing of Environment</i> , 2012, 122, 106-116.	4.6	303
16	Global discrimination of land cover types from metrics derived from AVHRR pathfinder data. <i>Remote Sensing of Environment</i> , 1995, 54, 209-222.	4.6	288
17	Wetland mapping in the Congo Basin using optical and radar remotely sensed data and derived topographical indices. <i>Remote Sensing of Environment</i> , 2010, 114, 73-86.	4.6	278
18	Mapping and monitoring deforestation and forest degradation in Sumatra (Indonesia) using Landsat time series data sets from 1990 to 2010. <i>Environmental Research Letters</i> , 2012, 7, 034010.	2.2	278

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19	Framing the concept of satellite remote sensing essential biodiversity variables: challenges and future directions. <i>Remote Sensing in Ecology and Conservation</i> , 2016, 2, 122-131.	2.2	243
20	Global maps of cropland extent and change show accelerated cropland expansion in the twenty-first century. <i>Nature Food</i> , 2022, 3, 19-28.	6.2	238
21	Mapping and sampling to characterize global inland water dynamics from 1999 to 2018 with full Landsat time-series. <i>Remote Sensing of Environment</i> , 2020, 243, 111792.	4.6	221
22	Estimating Global Cropland Extent with Multi-year MODIS Data. <i>Remote Sensing</i> , 2010, 2, 1844-1863.	1.8	219
23	Monitoring Global Croplands with Coarse Resolution Earth Observations: The Global Agriculture Monitoring (GLAM) Project. <i>Remote Sensing</i> , 2010, 2, 1589-1609.	1.8	203
24	Detecting Long-term Global Forest Change Using Continuous Fields of Tree-Cover Maps from 8-km Advanced Very High Resolution Radiometer (AVHRR) Data for the Years 1982-1999. <i>Ecosystems</i> , 2004, 7, 695-716.	1.6	190
25	Humid tropical forest disturbance alerts using Landsat data. <i>Environmental Research Letters</i> , 2016, 11, 034008.	2.2	185
26	Estimation of tree cover using MODIS data at global, continental and regional/local scales. <i>International Journal of Remote Sensing</i> , 2005, 26, 4359-4380.	1.3	174
27	Quantifying changes in the rates of forest clearing in Indonesia from 1990 to 2005 using remotely sensed data sets. <i>Environmental Research Letters</i> , 2009, 4, 034001.	2.2	173
28	Congo Basin forest loss dominated by increasing smallholder clearing. <i>Science Advances</i> , 2018, 4, eaat2993.	4.7	171
29	National-scale soybean mapping and area estimation in the United States using medium resolution satellite imagery and field survey. <i>Remote Sensing of Environment</i> , 2017, 190, 383-395.	4.6	168
30	Reductions in emissions from deforestation from Indonesia's moratorium on new oil palm, timber, and logging concessions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 1328-1333.	3.3	159
31	Regional-scale boreal forest cover and change mapping using Landsat data composites for European Russia. <i>Remote Sensing of Environment</i> , 2011, 115, 548-561.	4.6	155
32	Time-series analysis of multi-resolution optical imagery for quantifying forest cover loss in Sumatra and Kalimantan, Indonesia. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2011, 13, 277-291.	1.4	154
33	Corn and Soybean Mapping in the United States Using MODIS Time-Series Data Sets. <i>Agronomy Journal</i> , 2007, 99, 1654-1664.	0.9	153
34	Massive soybean expansion in South America since 2000 and implications for conservation. <i>Nature Sustainability</i> , 2021, 4, 784-792.	11.5	153
35	Ongoing primary forest loss in Brazil, Democratic Republic of the Congo, and Indonesia. <i>Environmental Research Letters</i> , 2018, 13, 074028.	2.2	150
36	Types and rates of forest disturbance in Brazilian Legal Amazon, 2000-2013. <i>Science Advances</i> , 2017, 3, e1601047.	4.7	147

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37	The fate of tropical forest fragments. <i>Science Advances</i> , 2020, 6, eaax8574.	4.7	146
38	Near doubling of Brazil's intensive row crop area since 2000. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 428-435.	3.3	139
39	Landsat Analysis Ready Data for Global Land Cover and Land Cover Change Mapping. <i>Remote Sensing</i> , 2020, 12, 426.	1.8	130
40	Reconciling Forest Conservation and Logging in Indonesian Borneo. <i>PLoS ONE</i> , 2013, 8, e69887.	1.1	116
41	Continuous fields of land cover for the conterminous United States using Landsat data: first results from the Web-Enabled Landsat Data (WELD) project. <i>Remote Sensing Letters</i> , 2011, 2, 279-288.	0.6	112
42	Can carbon emissions from tropical deforestation drop by 50% in 5 years?. <i>Global Change Biology</i> , 2016, 22, 1336-1347.	4.2	109
43	Mapping tree height distributions in Sub-Saharan Africa using Landsat 7 and 8 data. <i>Remote Sensing of Environment</i> , 2016, 185, 221-232.	4.6	107
44	The Global 2000-2020 Land Cover and Land Use Change Dataset Derived From the Landsat Archive: First Results. <i>Frontiers in Remote Sensing</i> , 2022, 3, .	1.3	102
45	Wheat Yield Forecasting for Punjab Province from Vegetation Index Time Series and Historic Crop Statistics. <i>Remote Sensing</i> , 2014, 6, 9653-9675.	1.8	92
46	Global Trends of Forest Loss Due to Fire From 2001 to 2019. <i>Frontiers in Remote Sensing</i> , 2022, 3, .	1.3	91
47	Securing tropical forest carbon: the contribution of protected areas to REDD. <i>Oryx</i> , 2010, 44, 352-357.	0.5	86
48	Impacts of civil conflict on primary forest habitat in northern Democratic Republic of the Congo, 1990-2010. <i>Biological Conservation</i> , 2014, 170, 321-328.	1.9	85
49	Rapid expansion of human impact on natural land in South America since 1985. <i>Science Advances</i> , 2021, 7, .	4.7	71
50	Remotely sensed forest cover loss shows high spatial and temporal variation across Sumatera and Kalimantan, Indonesia 2000-2008. <i>Environmental Research Letters</i> , 2011, 6, 014010.	2.2	65
51	A comparison of sampling designs for estimating deforestation from Landsat imagery: A case study of the Brazilian Legal Amazon. <i>Remote Sensing of Environment</i> , 2009, 113, 2448-2454.	4.6	57
52	Global bare ground gain from 2000 to 2012 using Landsat imagery. <i>Remote Sensing of Environment</i> , 2017, 194, 161-176.	4.6	56
53	A multi-resolution approach to national-scale cultivated area estimation of soybean. <i>Remote Sensing of Environment</i> , 2017, 195, 13-29.	4.6	55
54	Analysis of stable states in global savannas: is the <scp>CART</scp> pulling the horse? - a comment. <i>Global Ecology and Biogeography</i> , 2015, 24, 985-987.	2.7	51

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55	A policy-driven framework for conserving the best of Earth's remaining moist tropical forests. <i>Nature Ecology and Evolution</i> , 2020, 4, 1377-1384.	3.4	50
56	Detecting vulnerability of humid tropical forests to multiple stressors. <i>One Earth</i> , 2021, 4, 988-1003.	3.6	41
57	An Assessment of Global Forest Change Datasets for National Forest Monitoring and Reporting. <i>Remote Sensing</i> , 2020, 12, 1790.	1.8	39
58	Monitoring Water-Related Ecosystems with Earth Observation Data in Support of Sustainable Development Goal (SDG) 6 Reporting. <i>Remote Sensing</i> , 2020, 12, 1634.	1.8	38
59	Global land use extent and dispersion within natural land cover using Landsat data. <i>Environmental Research Letters</i> , 2022, 17, 034050.	2.2	38
60	Demonstration of Percent Tree Cover Mapping Using Landsat Analysis Ready Data (ARD) and Sensitivity with Respect to Landsat ARD Processing Level. <i>Remote Sensing</i> , 2018, 10, 209.	1.8	34
61	Contextualizing Landscape-Scale Forest Cover Loss in the Democratic Republic of Congo (DRC) between 2000 and 2015. <i>Land</i> , 2020, 9, 23.	1.2	31
62	Landsat ETM+ and SRTM Data Provide Near Real-Time Monitoring of Chimpanzee (<i>Pan troglodytes</i>) Habitats in Africa. <i>Remote Sensing</i> , 2016, 8, 427.	1.8	28
63	Comment on "Tropical forests are a net carbon source based on aboveground measurements of gain and loss". <i>Science</i> , 2019, 363, .	6.0	28
64	Evaluating Landsat and RapidEye Data for Winter Wheat Mapping and Area Estimation in Punjab, Pakistan. <i>Remote Sensing</i> , 2018, 10, 489.	1.8	24
65	Definition and measurement of tree cover: A comparative analysis of field-, lidar- and landsat-based tree cover estimations in the Sierra national forests, USA. <i>Agricultural and Forest Meteorology</i> , 2019, 268, 258-268.	1.9	24
66	MODIS Vegetative Cover Conversion and Vegetation Continuous Fields. <i>Remote Sensing and Digital Image Processing</i> , 2010, , 725-745.	0.7	21
67	Landsat-based wheat mapping in the heterogeneous cropping system of Punjab, Pakistan. <i>International Journal of Remote Sensing</i> , 2016, 37, 1391-1410.	1.3	19
68	Global seasonal dynamics of inland open water and ice. <i>Remote Sensing of Environment</i> , 2022, 272, 112963.	4.6	18
69	Potential Vegetation and Carbon Redistribution in Northern North America from Climate Change. <i>Climate</i> , 2016, 4, 2.	1.2	17
70	Using Multi-Resolution Satellite Data to Quantify Land Dynamics: Applications of PlanetScope Imagery for Cropland and Tree-Cover Loss Area Estimation. <i>Remote Sensing</i> , 2021, 13, 2191.	1.8	17
71	Quantifying the trade-off between cost and precision in estimating area of forest loss and degradation using probability sampling in Guyana. <i>Remote Sensing of Environment</i> , 2019, 221, 122-135.	4.6	15
72	Identifying nascent wetland forest conversion in the Democratic Republic of the Congo. <i>Wetlands Ecology and Management</i> , 2013, 21, 29-43.	0.7	13

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73	A Sample-Based Forest Monitoring Strategy Using Landsat, AVHRR and MODIS Data to Estimate Gross Forest Cover Loss in Malaysia between 1990 and 2005. <i>Remote Sensing</i> , 2013, 5, 1842-1855.	1.8	13
74	Patterns of tree-cover loss along the Indonesia–Malaysia border on Borneo. <i>International Journal of Remote Sensing</i> , 2013, 34, 5748-5760.	1.3	11
75	Biophysical and socioeconomic drivers of oil palm expansion in Indonesia. <i>Environmental Research Letters</i> , 2021, 16, 034048.	2.2	9
76	REDDcalculator.com: a web-based decision support tool for implementing Indonesia's forest moratorium. <i>Methods in Ecology and Evolution</i> , 2012, 3, 310-316.	2.2	8
77	An operational automated mapping algorithm for in-season estimation of wheat area for Punjab, Pakistan. <i>International Journal of Remote Sensing</i> , 2021, 42, 3833-3849.	1.3	6
78	THE MODIS 500 METER GLOBAL VEGETATION CONTINUOUS FIELD PRODUCTS. , 2004, , .		5
79	Satellite-detected gain in built-up area as a leading economic indicator. <i>Environmental Research Letters</i> , 2019, 14, 114015.	2.2	4
80	Potential Transient Response of Terrestrial Vegetation and Carbon in Northern North America from Climate Change. <i>Climate</i> , 2019, 7, 113.	1.2	4
81	A Method for Selecting Training Data and its Effect on Automated Land Cover Mapping of Large Areas. , 2008, , .		3
82	Forest cover dynamics of shifting cultivation in the Democratic Republic of the Congo 2000–2010 (2015 <i>Environ. Res. Lett.</i> 10(9):094009). <i>Environmental Research Letters</i> , 2017, 12, 089501.	2.2	3
83	MODIS 250m AND 500m TIME SERIES DATA FOR CHANGE DETECTION AND CONTINUOUS REPRESENTATION OF VEGETATION CHARACTERISTICS. , 2002, , .		2
84	Sample-Based Estimation of Tree Cover Change in Haiti Using Aerial Photography: Substantial Increase in Tree Cover between 2002 and 2010. <i>Forests</i> , 2021, 12, 1243.	0.9	1
85	Coupled forest zoning and agricultural intervention yields conflicting outcomes for tropical forest conservation in the Democratic Republic of the Congo (DRC). <i>Environmental Research Letters</i> , 0, , .	2.2	1
86	Tropical Forest Canopy Structure and Change Assessment Using Landsat, GEDI, and Airborne Lidar Data. , 2021, , .		0