RESEARCH & PUBLICATIONS

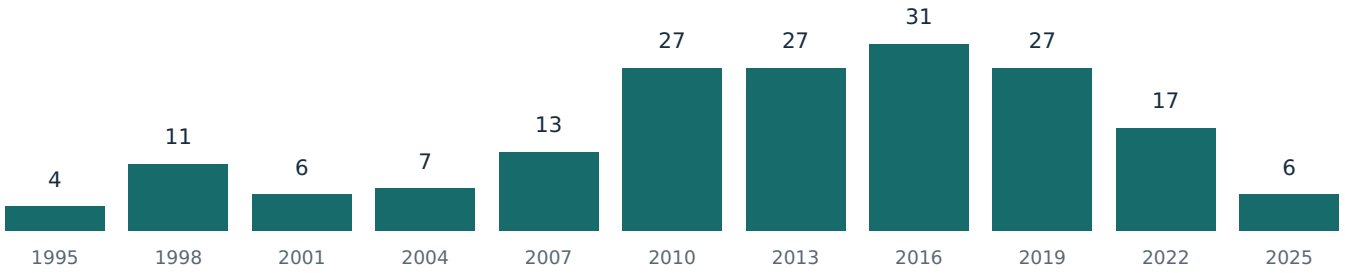
Matthew C Hansen

A publication record at a glance

176	47,607	83
ARTICLES	CITATIONS	h-INDEX

PUBLICATION ACTIVITY

Articles grouped into 3-year periods



MOST CITED IN THIS LIST

High-Resolution Global Maps of 21st-Century Forest Cover Change — 10,071
2013 Science

Global Land Cover Classification at 1 km Spatial Resolution Using a Classification Tree Approach — 2,139
2000 International Journal of Remote Sensing

Classifying Drivers of Global Forest Loss — 2,013
2018 Science

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Ordered by publication year, newest first

2026

01 **Global Annual Cropland Dynamics 2015–2024**
Remote Sensing of Environment · 340, 115438
https://exaly.com/article/212840500
4 citations

02 **Global Extent and Drivers of Tree Cover Loss Quantified With High-Resolution Satellite Data.**
Science · 392, eadz9042
https://exaly.com/article/214597365
1 citations

2025

03 **Practical Global Sampling Methods for Estimating Area and Map Accuracy of Land Cover and Change**
Remote Sensing of Environment · 324, 114714
https://exaly.com/article/200025826
19 citations

04 **The Importance of Distinguishing Between Natural and Managed Tree Cover Gains in the Moist Tropics**
Nature Communications · 16, 6092
https://exaly.com/article/202591504
2 citations

05 **Unprecedentedly High Global Forest Disturbance Due to Fire in 2023 and 2024**
Proceedings of the National Academy of Sciences of the United States of America · 122, e2505418122
https://exaly.com/article/203108266
48 citations

06 **Rapid Monitoring of Global Land Change**
Nature Communications · 16, 8948
https://exaly.com/article/206298202
29 citations

2024

07 **Perennial Snow and Ice Cover Change From 2001 to 2021 in the Hindu-Kush Himalayan Region Derived From the Landsat Analysis-Ready Data**
Remote Sensing Applications: Society and Environment · 34, 101192
https://exaly.com/article/177489830
10 citations

08 **Land in Limbo: Nearly One Third of Indonesia's Cleared Old-Growth Forests Left Idle**
Proceedings of the National Academy of Sciences of the United States of America · 121, e2318029121
https://exaly.com/article/186724028
21 citations

09 **Forest Definitions Require a Re-Think**
Communications Earth & Environment · 5, 1-4
https://exaly.com/article/194051035
21 citations

Ordered by publication year, newest first

2023

10 **Assessing Protected Area's Carbon Stocks and Ecological Structure at Regional-Scale Using GEDI Lidar**
Global Environmental Change · 78, 102621
https://exaly.com/article/157315116
31 citations

11 **Reply To: Measuring the World's Cropland Area**
Nature Food · 4, 33-34
https://exaly.com/article/158538201
2 citations

12 **Land-Cover and Land-Use Change Trajectory Hopping Facilitates Estate-Crop Expansion Into Protected Forests in Indonesia**
Conservation Letters · 16, e12957
https://exaly.com/article/163241138
1 citations

2022

13 **Global Land Use Extent and Dispersion Within Natural Land Cover Using Landsat Data**
Environmental Research Letters · 17, 034050
https://exaly.com/article/134583703
104 citations

14 **Global Trends of Forest Loss Due to Fire From 2001 to 2019**
Frontiers in Remote Sensing · 3, 825190
https://exaly.com/article/134685414
357 citations

15 **Global Seasonal Dynamics of Inland Open Water and Ice**
Remote Sensing of Environment · 272, 112963
https://exaly.com/article/135010962
33 citations

16 **Global Maps of Cropland Extent and Change Show Accelerated Cropland Expansion in the Twenty-First Century**
Nature Food · 3, 19-28
https://exaly.com/article/135442362
974 citations

17 **The Global 2000-2020 Land Cover and Land Use Change Dataset Derived From the Landsat Archive: First Results**
Frontiers in Remote Sensing · 3, 856903
https://exaly.com/article/136058499
555 citations

18 **Coupled Forest Zoning and Agricultural Intervention Yields Conflicting Outcomes for Tropical Forest Conservation in the Democratic Republic of the Congo (DRC)**
Environmental Research Letters · 17, 064002
https://exaly.com/article/145205780
6 citations

Ordered by publication year, newest first

2022 / continued

19 **Landsat@50**
Frontiers in Ecology and the Environment · 20, 340-342
https://exaly.com/article/150288984
5 citations

20 **Disentangling the Numbers Behind Agriculture-Driven Tropical Deforestation**
Science · 377, eabm9267
https://exaly.com/article/154818849
495 citations

21 **Cropland Expansion, Intensification, and Reduction in Mato Grosso State, Brazil, Between the Crop Years 2000/01 to 2017/18**
Remote Sensing Applications: Society and Environment · 28, 100841
https://exaly.com/article/155207615
10 citations

22 **Annual 30 m Soybean Yield Mapping in Brazil Using Long-Term Satellite Observations, Climate Data and Machine Learning**
Agricultural and Forest Meteorology · 326, 109186
https://exaly.com/article/155207884
26 citations

23 **Oil Palm Reconciliation in Indonesia: Balancing Rising Demand and Environmental Conservation Towards 2050**
Journal of Cleaner Production · 380, 135087
https://exaly.com/article/156612295
29 citations

2021

24 **Mapping Global Forest Canopy Height Through Integration of GEDI and Landsat Data**
Remote Sensing of Environment · 253, 112165
https://exaly.com/article/77744502
1,246 citations

25 **Global Maps of Twenty-First Century Forest Carbon Fluxes**
Nature Climate Change · 11, 234-240
https://exaly.com/article/78300858
1,048 citations

26 **An Operational Automated Mapping Algorithm for In-Season Estimation of Wheat Area for Punjab, Pakistan**
International Journal of Remote Sensing · 42, 3833-3849
https://exaly.com/article/79303746
11 citations

27 **Biophysical and Socioeconomic Drivers of Oil Palm Expansion in Indonesia**
Environmental Research Letters · 16, 034048
https://exaly.com/article/79457039
21 citations

Ordered by publication year, newest first

2021 / continued

28 **Rapid Expansion of Human Impact on Natural Land in South America Since 1985**
158 citations
Science Advances
https://exaly.com/article/79869534

29 **Using Multi-Resolution Satellite Data to Quantify Land Dynamics: Applications of PlanetScope Imagery for Cropland and Tree-Cover Loss Area Estimation**
27 citations
Remote Sensing · 13, 2191
https://exaly.com/article/80759759

30 **Massive Soybean Expansion in South America Since 2000 and Implications for Conservation**
405 citations
Nature Sustainability · 4, 784-792
https://exaly.com/article/80857147

31 **An Evaluation of Landsat, Sentinel-2, Sentinel-1 and MODIS Data for Crop Type Mapping**
121 citations
Science of Remote Sensing · 3, 100018
https://exaly.com/article/81075039

32 **Detecting Vulnerability of Humid Tropical Forests to Multiple Stressors**
93 citations
One Earth · 4, 988-1003
https://exaly.com/article/81376556

33 **Sample-Based Estimation of Tree Cover Change in Haiti Using Aerial Photography: Substantial Increase in Tree Cover Between 2002 and 2010**
5 citations
Forests · 12, 1243
https://exaly.com/article/82099622

34 **Tropical Forest Canopy Structure and Change Assessment Using Landsat, GEDI, and Airborne Lidar Data**
2 citations
Journal unavailable
https://exaly.com/article/90944284

2020

35 **A Policy-Driven Framework for Conserving the Best of Earth's Remaining Moist Tropical Forests**
85 citations
Nature Ecology and Evolution · 4, 1377-1384
https://exaly.com/article/75822297

36 **An Assessment of Global Forest Change Datasets for National Forest Monitoring and Reporting**
71 citations
Remote Sensing · 12, 1790
https://exaly.com/article/76834509

Ordered by publication year, newest first

2020 / continued

37 Monitoring Water-Related Ecosystems With Earth Observation Data in Support of Sustainable Development Goal (SDG) 6 Reporting
72 citations
Remote Sensing · 12, 1634
https://exaly.com/article/76884587

38 The Fate of Tropical Forest Fragments
244 citations
Science Advances · 6, eaax8574
https://exaly.com/article/77013103

39 The Global Ecosystem Dynamics Investigation: High-Resolution Laser Ranging of the Earth's Forests and Topography
969 citations
Science of Remote Sensing · 1, 100002
https://exaly.com/article/77220957

40 Contextualizing Landscape-Scale Forest Cover Loss in the Democratic Republic of Congo (DRC) Between 2000 and 2015
60 citations
Land · 9, 23
https://exaly.com/article/77424704

41 Landsat Analysis Ready Data for Global Land Cover and Land Cover Change Mapping
241 citations
Remote Sensing · 12, 426
https://exaly.com/article/77424776

42 Mapping and Sampling to Characterize Global Inland Water Dynamics From 1999 to 2018 With Full Landsat Time-Series
450 citations
Remote Sensing of Environment · 243, 111792
https://exaly.com/article/77545146

2019

43 Estimating Daily Streamflow in the Congo Basin Using Satellite-Derived Data and a Semi-Distributed Hydrological Model
35 citations
Hydrological Sciences Journal · 64, 1472-1487
https://exaly.com/article/72160968

44 Satellite-Detected Gain in Built-Up Area as a Leading Economic Indicator
4 citations
Environmental Research Letters · 14, 114015
https://exaly.com/article/72259094

45 Definition and Measurement of Tree Cover: A Comparative Analysis of Field-, Lidar- and Landsat-Based Tree Cover Estimations in the Sierra National Forests, USA
44 citations
Agricultural and Forest Meteorology · 268, 258-268
https://exaly.com/article/72885138

Ordered by publication year, newest first

2019 / continued

46 **Benefits of the Free and Open Landsat Data Policy**
Remote Sensing of Environment · 224, 382-385
https://exaly.com/article/73749659
434 citations

47 **Potential Transient Response of Terrestrial Vegetation and Carbon in Northern North America From Climate Change**
Climate · 7, 113
https://exaly.com/article/73852476
5 citations

48 **Near Doubling of Brazil's Intensive Row Crop Area Since 2000**
Proceedings of the National Academy of Sciences of the United States of America · 116, 428-435
https://exaly.com/article/74531705
180 citations

49 **Quantifying the Trade-Off Between Cost and Precision in Estimating Area of Forest Loss and Degradation Using Probability Sampling in Guyana**
Remote Sensing of Environment · 221, 122-135
https://exaly.com/article/74595082
20 citations

50 **Comment on "Tropical Forests Are a Net Carbon Source Based on Aboveground Measurements of Gain and Loss"**
Science
https://exaly.com/article/74633073
36 citations

2018

51 **Contrasting Tree-Cover Loss and Subsequent Land Cover in Two Neotropical Forest Regions: Sample-Based Assessment of the Mexican Yucatán and Argentine Chaco**
Journal of Land Use Science · 13, 549-564
https://exaly.com/article/69896424
13 citations

52 **Congo Basin Forest Loss Dominated by Increasing Smallholder Clearing**
Science Advances · 4, eaat2993
https://exaly.com/article/70359793
323 citations

53 **Demonstration of Percent Tree Cover Mapping Using Landsat Analysis Ready Data (ARD) and Sensitivity With Respect to Landsat ARD Processing Level**
Remote Sensing · 10, 209
https://exaly.com/article/70490748
39 citations

54 **Evaluating Landsat and RapidEye Data for Winter Wheat Mapping and Area Estimation in Punjab, Pakistan**
Remote Sensing · 10, 489
https://exaly.com/article/70827117
33 citations

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2018 / continued

55 **Classifying Drivers of Global Forest Loss** — 2,013 citations
Science · 361, 1108-1111
https://exaly.com/article/70928197

56 **Ongoing Primary Forest Loss in Brazil, Democratic Republic of the Congo, and Indonesia** — 247 citations
Environmental Research Letters · 13, 074028
https://exaly.com/article/70946375

57 **Global Forest Maps in Support of Conservation Monitoring** — 1 citations
Journal unavailable
https://exaly.com/article/71265958

58 **Global Land Change From 1982 to 2016** — 1,790 citations
Nature · 560, 639-643
https://exaly.com/article/71666918

2017

59 **National-Scale Soybean Mapping and Area Estimation in the United States Using Medium Resolution Satellite Imagery and Field Survey** — 238 citations
Remote Sensing of Environment · 190, 383-395
https://exaly.com/article/65896524

60 **The Last Frontiers of Wilderness: Tracking Loss of Intact Forest Landscapes From 2000 to 2013** — 715 citations
Science Advances · 3, e1600821
https://exaly.com/article/65982629

61 **Types and Rates of Forest Disturbance in Brazilian Legal Amazon, 2000–2013** — 193 citations
Science Advances · 3, e1601047
https://exaly.com/article/66213250

62 **A Multi-Resolution Approach to National-Scale Cultivated Area Estimation of Soybean** — 77 citations
Remote Sensing of Environment · 195, 13-29
https://exaly.com/article/66222893

63 **Global Bare Ground Gain From 2000 to 2012 Using Landsat Imagery** — 59 citations
Remote Sensing of Environment · 194, 161-176
https://exaly.com/article/66649097

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64 Comprehensive Monitoring of Bangladesh Tree Cover Inside and Outside of Forests, 2000–2014
53 citations
Environmental Research Letters · 12, 104015
https://exaly.com/article/66834286

65 Forest Cover Dynamics of Shifting Cultivation in the Democratic Republic of the Congo 2000–2010 (2015 Environ. Res. Lett. 10 094009)
6 citations
Environmental Research Letters · 12, 089501
https://exaly.com/article/67949013

66 Quantification of Land Cover and Land Use Within the Rural Complex of the Democratic Republic of Congo
38 citations
Environmental Research Letters · 12, 104001
https://exaly.com/article/67949030

67 National-Scale Cropland Mapping Based on Spectral-Temporal Features and Outdated Land Cover Information
59 citations
PLoS ONE · 12, e0181911
https://exaly.com/article/68461281

68 A Global View of Shifting Cultivation: Recent, Current, and Future Extent
238 citations
PLoS ONE · 12, e0184479
https://exaly.com/article/87048653

2016

69 Potential Vegetation and Carbon Redistribution in Northern North America From Climate Change
19 citations
Climate · 4, 2
https://exaly.com/article/63236373

70 Landsat ETM+ and SRTM Data Provide Near Real-Time Monitoring of Chimpanzee (Pan troglodytes) Habitats in Africa
27 citations
Remote Sensing · 8, 427
https://exaly.com/article/63247542

71 Methods for Evaluating the Utilities of Local and Global Maps for Increasing the Precision of Estimates of Subtropical Forest Area
35 citations
Canadian Journal of Forest Research · 46, 924-932
https://exaly.com/article/63460412

72 Humid Tropical Forest Disturbance Alerts Using Landsat Data
272 citations
Environmental Research Letters · 11, 034008
https://exaly.com/article/63477740

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2016 / continued

73 **Mapping Tree Height Distributions in Sub-Saharan Africa Using Landsat 7 and 8 Data**
Remote Sensing of Environment · 185, 221-232
https://exaly.com/article/64041638
139 citations

74 **Framing the Concept of Satellite Remote Sensing Essential Biodiversity Variables: Challenges and Future Directions**
Remote Sensing in Ecology and Conservation · 2, 122-131
https://exaly.com/article/64422764
283 citations

75 **Pan-Tropical Hinterland Forests: Mapping Minimally Disturbed Forests**
Global Ecology and Biogeography · 25, 151-163
https://exaly.com/article/64430326
47 citations

76 **Can Carbon Emissions From Tropical Deforestation Drop by 50% in 5 Years?**
Global Change Biology · 22, 1336-1347
https://exaly.com/article/65453867
131 citations

77 **Landsat-Based Wheat Mapping in the Heterogeneous Cropping System of Punjab, Pakistan**
International Journal of Remote Sensing · 37, 1391-1410
https://exaly.com/article/65592809
30 citations

78 **Global Forest Monitoring From Earth Observation**
Journal unavailable
https://exaly.com/article/86617859
11 citations

79 **Global Data Availability From U.S. Satellites: Landsat and MODIS**
Journal unavailable
https://exaly.com/article/109607564
0 citations

80 **Monitoring Forest Loss and Degradation at National to Global Scales Using Landsat Data**
Journal unavailable
https://exaly.com/article/109623341
0 citations

81 **Use of Earth Observation Technology to Monitor Forests Across the Globe**
Journal unavailable
https://exaly.com/article/109644604
1 citations

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2015

82 Analysis of Stable States in Global Savannas: Is the CART Pulling the Horse? – A Comment
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Global Ecology and Biogeography · 24, 985-987
https://exaly.com/article/60246483

83 Forest Cover Dynamics of Shifting Cultivation in the Democratic Republic of Congo: A Remote Sensing-Based Assessment for 2000–2010
78 citations
Environmental Research Letters · 10, 094009
https://exaly.com/article/60697704

84 Measurement and Monitoring Needs, Capabilities and Potential for Addressing Reduced Emissions From Deforestation and Forest Degradation Under REDD+
160 citations
Environmental Research Letters · 10, 123001
https://exaly.com/article/60726931

85 Annual Carbon Emissions From Deforestation in the Amazon Basin Between 2000 and 2010
58 citations
PLoS ONE · 10, e0126754
https://exaly.com/article/61039801

86 Environmental Science: Agree on Biodiversity Metrics to Track From Space
376 citations
Nature · 523, 403-405
https://exaly.com/article/61100371

87 Reductions in Emissions From Deforestation From Indonesia's Moratorium on New Oil Palm, Timber, and Logging Concessions
182 citations
Proceedings of the National Academy of Sciences of the United States of America · 112, 1328-1333
https://exaly.com/article/61664637

88 Mapping Global Cropland and Field Size
473 citations
Global Change Biology · 21, 1980-1992
https://exaly.com/article/61765999

89 Characterizing Congo Basin Rainfall and Climate Using Tropical Rainfall Measuring Mission (TRMM) Satellite Data and Limited Rain Gauge Ground Observations
47 citations
Journal of Applied Meteorology and Climatology · 54, 541-555
https://exaly.com/article/61779924

90 Aboveground Carbon Loss in Natural and Managed Tropical Forests From 2000 to 2012
155 citations
Environmental Research Letters · 10, 074002
https://exaly.com/article/62053462

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2015 / continued

91 Ten Ways Remote Sensing Can Contribute to Conservation.
225 citations
Conservation Biology · 29, 350-9
https://exaly.com/article/62891459

92 Using the Landsat Data Archive to Assess Long-Term Regional Forest Dynamics Assessment in Eastern Europe, 1985-2012
7 citations
International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives · XL-7-W3, 531-537
https://exaly.com/article/90178629

2014

93 A Biodiversity Indicators Dashboard: Addressing Challenges to Monitoring Progress Towards the Aichi Biodiversity Targets Using Disaggregated Global Data
60 citations
PLoS ONE · 9, e112046
https://exaly.com/article/57411831

94 Wheat Yield Forecasting for Punjab Province From Vegetation Index Time Series and Historic Crop Statistics
112 citations
Remote Sensing · 6, 9653-9675
https://exaly.com/article/57455072

95 National Satellite-Based Humid Tropical Forest Change Assessment in Peru in Support of REDD+ Implementation
83 citations
Environmental Research Letters · 9, 124012
https://exaly.com/article/57743719

96 Mapping Wetlands in Indonesia Using Landsat and PALSAR Data-Sets and Derived Topographical Indices
50 citations
Geo-Spatial Information Science · 17, 60-71
https://exaly.com/article/57797031

97 Response to Comment on “High-Resolution Global Maps of 21st-Century Forest Cover Change”
77 citations
Science · 344, 981
https://exaly.com/article/58149142

98 Remote Sensing Estimates of Stand-Replacement Fires in Russia, 2002–2011
100 citations
Environmental Research Letters · 9, 105007
https://exaly.com/article/58654968

99 Impacts of Civil Conflict on Primary Forest Habitat in Northern Democratic Republic of the Congo, 1990–2010
108 citations
Biological Conservation · 170, 321-328
https://exaly.com/article/58918298

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2014 / continued

100 **Primary Forest Cover Loss in Indonesia Over 2000–2012**
793 citations
Nature Climate Change · 4, 730-735
https://exaly.com/article/59114384

101 **Slowing Amazon Deforestation Through Public Policy and Interventions in Beef and Soy Supply Chains**
950 citations
Science · 344, 1118-23
https://exaly.com/article/59733971

2013

102 **Identifying Nascent Wetland Forest Conversion in the Democratic Republic of the Congo**
17 citations
Wetlands Ecology and Management · 21, 29-43
https://exaly.com/article/54940232

103 **High-Resolution Global Maps of 21st-Century Forest Cover Change**
10,071 citations
Science · 342, 850-3
https://exaly.com/article/55117699

104 **National-Scale Estimation of Gross Forest Aboveground Carbon Loss: A Case Study of the Democratic Republic of the Congo**
52 citations
Environmental Research Letters · 8, 044039
https://exaly.com/article/56466463

105 **Satellite-Based Primary Forest Degradation Assessment in the Democratic Republic of the Congo, 2000–2010**
62 citations
Environmental Research Letters · 8, 024034
https://exaly.com/article/56476575

106 **Patterns of Tree-Cover Loss Along the Indonesia–Malaysia Border on Borneo**
13 citations
International Journal of Remote Sensing · 34, 5748-5760
https://exaly.com/article/56822787

107 **Reconciling Forest Conservation and Logging in Indonesian Borneo**
128 citations
PLoS ONE · 8, e69887
https://exaly.com/article/57200473

108 **A Sample-Based Forest Monitoring Strategy Using Landsat, AVHRR and MODIS Data to Estimate Gross Forest Cover Loss in Malaysia Between 1990 and 2005**
14 citations
Remote Sensing · 5, 1842-1855
https://exaly.com/article/57226696

Ordered by publication year, newest first

2012

109 **Carbon Emissions From Land Use and Land-Cover Change** — 1,135 citations
Biogeosciences · 9, 5125-5142
https://exaly.com/article/52983606

110 **Mapping and Monitoring Deforestation and Forest Degradation in Sumatra (Indonesia) Using Landsat Time Series Data Sets From 1990 to 2010** — 313 citations
Environmental Research Letters · 7, 034010
https://exaly.com/article/53520914

111 **A Review of Large Area Monitoring of Land Cover Change Using Landsat Data** — 935 citations
Remote Sensing of Environment · 122, 66-74
https://exaly.com/article/54002980

112 **Quantifying Forest Cover Loss in Democratic Republic of the Congo, 2000–2010, With Landsat ETM + Data** — 358 citations
Remote Sensing of Environment · 122, 106-116
https://exaly.com/article/54013716

113 **Forest Cover Change Within the Russian European North After the Breakdown of Soviet Union (1990–2005)** — 15 citations
International Journal of Forestry Research · 2012, 729614
https://exaly.com/article/54072684

114 **Global Characterization and Monitoring of Forest Cover Using Landsat Data: Opportunities and Challenges** — 281 citations
International Journal of Digital Earth · 5, 373-397
https://exaly.com/article/54321008

115 **Baseline Map of Carbon Emissions From Deforestation in Tropical Regions** — 602 citations
Science · 336, 1573-6
https://exaly.com/article/54383056

116 **REDDcalculator.com: A Web-Based Decision-Support Tool for Implementing Indonesia's Forest Moratorium** — 9 citations
Methods in Ecology and Evolution · 3, 310-316
https://exaly.com/article/54675283

2011

117 **Continuous Fields of Land Cover for the Conterminous United States Using Landsat Data: First Results From the Web-Enabled Landsat Data (WELD) Project** — 117 citations
Remote Sensing Letters · 2, 279-288
https://exaly.com/article/50011131

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2011 / continued

118 Cropland for Sub-Saharan Africa: A Synergistic Approach Using Five Land Cover Data Sets
99 citations
Geophysical Research Letters · 38, n/a-n/a
https://exaly.com/article/50065563

119 Time-Series Analysis of Multi-Resolution Optical Imagery for Quantifying Forest Cover Loss in Sumatra and Kalimantan, Indonesia
164 citations
International Journal of Applied Earth Observation and Geoinformation · 13, 277-291
https://exaly.com/article/50308791

120 Regional-Scale Boreal Forest Cover and Change Mapping Using Landsat Data Composites for European Russia
182 citations
Remote Sensing of Environment · 115, 548-561
https://exaly.com/article/51622499

121 Adapting a Global Stratified Random Sample for Regional Estimation of Forest Cover Change Derived From Satellite Imagery
27 citations
Remote Sensing of Environment · 115, 650-658
https://exaly.com/article/51622507

122 Remotely Sensed Forest Cover Loss Shows High Spatial and Temporal Variation Across Sumatera and Kalimantan, Indonesia 2000–2008
66 citations
Environmental Research Letters · 6, 014010
https://exaly.com/article/51971326

2010

123 Estimating Global Cropland Extent With Multi-Year MODIS Data
248 citations
Remote Sensing · 2, 1844-1863
https://exaly.com/article/47650799

124 Multiscale Satellite and Spatial Information and Analysis Framework in Support of a Large-Area Forest Monitoring and Inventory Update
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Environmental Monitoring and Assessment · 170, 417-433
https://exaly.com/article/47973319

125 Wetland Mapping in the Congo Basin Using Optical and Radar Remotely Sensed Data and Derived Topographical Indices
325 citations
Remote Sensing of Environment · 114, 73-86
https://exaly.com/article/48267992

126 Web-Enabled Landsat Data (WELD): Landsat ETM+ Composited Mosaics of the Conterminous United States
487 citations
Remote Sensing of Environment · 114, 35-49
https://exaly.com/article/48267995

Ordered by publication year, newest first

2010 / continued

127 **Deforestation Driven by Urban Population Growth and Agricultural Trade in the Twenty-First Century**
Nature Geoscience · 3, 178-181
https://exaly.com/article/48514057
1,221 citations

128 **Monitoring Global Croplands With Coarse Resolution Earth Observations: The Global Agriculture Monitoring (GLAM) Project**
Remote Sensing · 2, 1589-1609
https://exaly.com/article/48647394
251 citations

129 **Reply to Reams et al.: Quantifying Forest Cover Change at Local and Global Scales**
Proceedings of the National Academy of Sciences of the United States of America · 107, E146-E146
https://exaly.com/article/48799903
1 citations

130 **Securing Tropical Forest Carbon: The Contribution of Protected Areas to REDD**
Oryx · 44, 352-357
https://exaly.com/article/48866247
95 citations

131 **Reply to Wernick et al.: Global Scale Quantification of Forest Change**
Proceedings of the National Academy of Sciences of the United States of America · 107, E148-E148
https://exaly.com/article/49070209
4 citations

132 **Quantification of Global Gross Forest Cover Loss**
Proceedings of the National Academy of Sciences of the United States of America · 107, 8650-8655
https://exaly.com/article/49464794
771 citations

133 **MODIS Vegetative Cover Conversion and Vegetation Continuous Fields**
Remote Sensing and Digital Image Processing
https://exaly.com/article/83325840
28 citations

134 **Vegetation Cover in the Eurasian Arctic: Distribution, Monitoring, and Role in Carbon Cycling**
Journal unavailable
https://exaly.com/article/84016881
5 citations

135 **High-Latitude Forest Cover Loss in Northern Eurasia, 2000–2005**
Journal unavailable
https://exaly.com/article/97383369
0 citations

2009

136 **Gross Forest Cover Loss in Temperate Forests: Biome-Wide Monitoring Results Using MODIS and Landsat Data**
Journal of Applied Remote Sensing · 3, 033569
https://exaly.com/article/45839514
22 citations

Ordered by publication year, newest first

2009 / continued

137 A Comparison of Sampling Designs for Estimating Deforestation From Landsat Imagery: A Case Study of the Brazilian Legal Amazon

65 citations

Remote Sensing of Environment · 113, 2448-2454

https://exaly.com/article/46501413

138 Quantifying Changes in the Rates of Forest Clearing in Indonesia From 1990 to 2005 Usingremotely Sensed Data Sets

168 citations

Environmental Research Letters · 4, 034001

https://exaly.com/article/46628166

139 Predicting Forest Fire in the Brazilian Amazon Using MODIS Imagery and Artificial Neural Networks

83 citations

International Journal of Applied Earth Observation and Geoinformation · 11, 265-272

https://exaly.com/article/46731471

2008

140 Combining MODIS and Landsat Imagery to Estimate and Map Boreal Forest Cover Loss

165 citations

Remote Sensing of Environment · 112, 3708-3719

https://exaly.com/article/43212543

141 A Method for Integrating MODIS and Landsat Data for Systematic Monitoring of Forest Cover and Change in the Congo Basin

428 citations

Remote Sensing of Environment · 112, 2495-2513

https://exaly.com/article/43474444

142 Comparing Annual MODIS and PRODES Forest Cover Change Data for Advancing Monitoring of Brazilian Forest Cover

100 citations

Remote Sensing of Environment · 112, 3784-3793

https://exaly.com/article/43474519

143 A Method for Selecting Training Data and Its Effect on Automated Land Cover Mapping of Large Areas

3 citations

Journal unavailable

https://exaly.com/article/44040308

144 Humid Tropical Forest Clearing From 2000 to 2005 Quantified by Using Multitemporal and Multiresolution Remotely Sensed Data

565 citations

Proceedings of the National Academy of Sciences of the United States of America · 105, 9439-9444

https://exaly.com/article/44161151

Ordered by publication year, newest first

2008 / continued

145 **The Suitability of Decadal Image Data Sets for Mapping Tropical Forest Cover Change in the Democratic Republic of Congo: Implications for the Global Land Survey**

International Journal of Remote Sensing · 29, 7269-7275

https://exaly.com/article/44295891

44 citations

146 **Convincing Evidence of Tropical Forest Decline**

Proceedings of the National Academy of Sciences of the United States of America · 105, E34-E34

https://exaly.com/article/44548553

4 citations

2007

147 **Pan-Tropical Monitoring of Deforestation**

Environmental Research Letters · 2, 045022

https://exaly.com/article/41734717

132 citations

148 **Corn and Soybean Mapping in the United States Using MODIS Time-Series Data Sets**

Agronomy Journal · 99, 1654-1664

https://exaly.com/article/41755649

164 citations

2005

149 **Land-Cover Classification and Change Detection**

Journal unavailable

https://exaly.com/article/37820975

0 citations

150 **Rapid Assessment of Annual Deforestation in the Brazilian Amazon Using MODIS Data**

Earth Interactions · 9, 1-22

https://exaly.com/article/37839212

101 citations

151 **Estimation of Tree Cover Using MODIS Data at Global, Continental and Regional/Local Scales**

International Journal of Remote Sensing · 26, 4359-4380

https://exaly.com/article/38936979

177 citations

152 **Physical Landscape Correlates of the Expansion of Mechanized Agriculture in Mato Grosso, Brazil**

Earth Interactions · 9, 1-18

https://exaly.com/article/38945675

71 citations

Ordered by publication year, newest first

2005 / continued

153 **Increasing Isolation of Protected Areas in Tropical Forests Over the Past Twenty Years**

598 citations

Ecological Applications · 15, 19-26

https://exaly.com/article/39427171

2004

154 **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 1982–99**

202 citations

Ecosystems · 7, 695-716

https://exaly.com/article/36966387

155 **The MODIS 500 Meter Global Vegetation Continuous Field Products**

5 citations

Journal unavailable

https://exaly.com/article/93535844

2003

156 **High Spatial Resolution Satellite Observations for Validation of MODIS Land Products: IKONOS Observations Acquired Under the NASA Scientific Data Purchase**

32 citations

Remote Sensing of Environment · 88, 100-110

https://exaly.com/article/35097557

157 **Global Percent Tree Cover at a Spatial Resolution of 500 Meters: First Results of the MODIS Vegetation Continuous Fields Algorithm**

842 citations

Earth Interactions · 7, 1-15

https://exaly.com/article/35598058

158 **Interannual Variability and Decadal Trend of Global Fractional Vegetation Cover From 1982 to 2000**

55 citations

Journal of Applied Meteorology and Climatology · 42, 1525-1530

https://exaly.com/article/36016625

2002

159 **Carbon Emissions From Tropical Deforestation and Regrowth Based on Satellite Observations for the 1980s and 1990s**

572 citations

Proceedings of the National Academy of Sciences of the United States of America · 99, 14256-14261

https://exaly.com/article/33629941

160 **MODIS 250m and 500m Time Series Data for Change Detection and Continuous Representation of Vegetation Characteristics**

1 citations

Journal unavailable

https://exaly.com/article/33713085

Ordered by publication year, newest first

2002 / continued

161 **Long Term Change Detection Using Continuous Fields of Tree Cover From 8km AVHRR Data for the Years 1982-2000**

Journal unavailable

https://exaly.com/article/33713101

2 citations

2000

162 **A New Global 1-Km Dataset of Percentage Tree Cover Derived From Remote Sensing**

Global Change Biology · 6, 247-254

https://exaly.com/article/31334340

402 citations

163 **The 250 m Global Land Cover Change Product From the Moderate Resolution Imaging Spectroradiometer of NASA's Earth Observing System**

International Journal of Remote Sensing · 21, 1433-1460

https://exaly.com/article/31767397

83 citations

164 **Detecting Land Cover Changes Based on Their Trajectories in the Spectral Space**

Journal unavailable

https://exaly.com/article/31832315

3 citations

165 **Global Continuous Fields of Vegetation Characteristics: A Linear Mixture Model Applied to Multi-Year 8 km AVHRR Data**

International Journal of Remote Sensing · 21, 1389-1414

https://exaly.com/article/31886479

230 citations

166 **A Comparison of the IGBP DISCover and University of Maryland 1 km Global Land Cover Products**

International Journal of Remote Sensing · 21, 1365-1373

https://exaly.com/article/31890104

267 citations

167 **An Evaluation of the Global 1-Km AVHRR Land Dataset**

International Journal of Remote Sensing · 21, 1987-2021

https://exaly.com/article/32163193

29 citations

168 **Global Land Cover Classification at 1 km Spatial Resolution Using a Classification Tree Approach**

International Journal of Remote Sensing · 21, 1331-1364

https://exaly.com/article/32271066

2,139 citations

1999

169 **Continuous Fields of Vegetation Characteristics at the Global Scale at 1-Km Resolution**

Journal of Geophysical Research D: Atmospheres · 104, 16911-16923

https://exaly.com/article/30858944

206 citations

Ordered by publication year, newest first

1998

170 **Red and Infrared Space Partitioning for Detecting Land Cover Change** — 3 citations

Journal unavailable

https://exaly.com/article/29330586

171 **Global Land Cover Classifications at 8 km Spatial Resolution: The Use of Training Data Derived From Landsat Imagery in Decision Tree Classifiers** — 533 citations

International Journal of Remote Sensing · 19, 3141-3168

https://exaly.com/article/29471668

172 **Developing the Spectral Trajectories of Major Land Cover Change Processes** — 6 citations

Journal unavailable · 3502, 155-162

https://exaly.com/article/29520127

1997

173 **Subpixel Forest Cover in Central Africa From Multisensor, Multitemporal Data** — 124 citations

Remote Sensing of Environment · 60, 228-246

https://exaly.com/article/28507954

1996

174 **Classification Trees: An Alternative to Traditional Land Cover Classifiers** — 402 citations

International Journal of Remote Sensing · 17, 1075-1081

https://exaly.com/article/27643458

175 **Proportional Estimation of Land Cover Characteristics From Satellite Data** — 2 citations

Journal unavailable

https://exaly.com/article/27736921

1995

176 **Global Discrimination of Land Cover Types From Metrics Derived From AVHRR Pathfinder Data** — 299 citations

Remote Sensing of Environment · 54, 209-222

https://exaly.com/article/26019302

End of list · 176 articles. Citation counts use Exaly’s peer-reviewed cohort.