Martin Herold

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/7298659/publications.pdf

Version: 2024-02-01

247	21,942	9775	10441
papers	citations	73 h-index	139 g-index

253	253	253	20467
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Good practices for estimating area and assessing accuracy of land change. Remote Sensing of Environment, 2014, 148, 42-57.	4.6	1,793
2	An assessment of deforestation and forest degradation drivers in developing countries. Environmental Research Letters, 2012, 7, 044009.	2.2	861
3	The spatiotemporal form of urban growth: measurement, analysis and modeling. Remote Sensing of Environment, 2003, 86, 286-302.	4.6	783
4	The Use of Remote Sensing and Landscape Metrics to Describe Structures and Changes in Urban Land Uses. Environment and Planning A, 2002, 34, 1443-1458.	2.1	474
5	Some challenges in global land cover mapping: An assessment of agreement and accuracy in existing 1Âkm datasets. Remote Sensing of Environment, 2008, 112, 2538-2556.	4.6	472
6	An integrated panâ€tropical biomass map using multiple reference datasets. Global Change Biology, 2016, 22, 1406-1420.	4.2	469
7	The role of spatial metrics in the analysis and modeling of urban land use change. Computers, Environment and Urban Systems, 2005, 29, 369-399.	3.3	457
8	Landsat continuity: Issues and opportunities for land cover monitoring. Remote Sensing of Environment, 2008, 112, 955-969.	4.6	449
9	Nondestructive estimates of aboveâ€ground biomass using terrestrial laser scanning. Methods in Ecology and Evolution, 2015, 6, 198-208.	2.2	449
10	Global land use changes are four times greater than previously estimated. Nature Communications, 2021, 12, 2501.	5.8	442
11	Near real-time disturbance detection using satellite image time series. Remote Sensing of Environment, 2012, 123, 98-108.	4.6	425
12	Global maps of twenty-first century forest carbon fluxes. Nature Climate Change, 2021, 11, 234-240.	8.1	425
13	Exploiting synergies of global land cover products for carbon cycle modeling. Remote Sensing of Environment, 2006, 101, 534-553.	4.6	399
14	Copernicus Global Land Cover Layersâ€"Collection 2. Remote Sensing, 2020, 12, 1044.	1.8	382
15	Spatial Metrics and Image Texture for Mapping Urban Land Use. Photogrammetric Engineering and Remote Sensing, 2003, 69, 991-1001.	0.3	329
16	Spectrometry for urban area remote sensingâ€"Development and analysis of a spectral library from 350 to 2400 nm. Remote Sensing of Environment, 2004, 91, 304-319.	4.6	324
17	Free and open-access satellite data are key to biodiversity conservation. Biological Conservation, 2015, 182, 173-176.	1.9	305
18	Earth observations for estimating greenhouse gas emissions from deforestation in developing countries. Environmental Science and Policy, 2007, 10, 385-394.	2.4	281

#	Article	IF	Citations
19	Reducing emissions from agriculture to meet the 2ÂÂ°C target. Global Change Biology, 2016, 22, 3859-3864.	4.2	267
20	Spatioâ€temporal dynamics in California's Central Valley: Empirical links to urban theory. International Journal of Geographical Information Science, 2005, 19, 175-195.	2.2	253
21	Validation of the global land cover 2000 map. IEEE Transactions on Geoscience and Remote Sensing, 2006, 44, 1728-1739.	2.7	242
22	Spectral resolution requirements for mapping urban areas. IEEE Transactions on Geoscience and Remote Sensing, 2003, 41, 1907-1919.	2.7	239
23	An expert system model for mapping tropical wetlands and peatlands reveals South America as the largest contributor. Global Change Biology, 2017, 23, 3581-3599.	4.2	236
24	Data acquisition considerations for Terrestrial Laser Scanning of forest plots. Remote Sensing of Environment, 2017, 196, 140-153.	4.6	229
25	Gross changes in reconstructions of historic land cover/use for Europe between 1900 and 2010. Global Change Biology, 2015, 21, 299-313.	4.2	215
26	Robust monitoring of small-scale forest disturbances in a tropical montane forest using Landsat time series. Remote Sensing of Environment, 2015, 161, 107-121.	4.6	212
27	Plant functional type classification for earth system models: results from the European Space Agency's Land Cover Climate Change Initiative. Geoscientific Model Development, 2015, 8, 2315-2328.	1.3	197
28	Estimation of aboveâ€ground biomass of large tropical trees with terrestrial LiDAR. Methods in Ecology and Evolution, 2018, 9, 223-234.	2.2	166
29	Improving near-real time deforestation monitoring in tropical dry forests by combining dense Sentinel-1 time series with Landsat and ALOS-2 PALSAR-2. Remote Sensing of Environment, 2018, 204, 147-161.	4.6	165
30	Uncertainties of modeling gross primary productivity over Europe: A systematic study on the effects of using different drivers and terrestrial biosphere models. Global Biogeochemical Cycles, 2007, 21, .	1.9	163
31	A high-resolution and harmonized model approach for reconstructing and analysing historic land changes in Europe. Biogeosciences, 2013, 10, 1543-1559.	1.3	163
32	CTCF Genomic Binding Sites in Drosophila and the Organisation of the Bithorax Complex. PLoS Genetics, 2007, 3, e112.	1.5	162
33	Remotely sensed resilience of tropical forests. Nature Climate Change, 2016, 6, 1028-1031.	8.1	157
34	The Drosophila insulator proteins CTCF and CP190 link enhancer blocking to body patterning. EMBO Journal, 2007, 26, 4203-4214.	3.5	156
35	Assessing change in national forest monitoring capacities of 99 tropical countries. Forest Ecology and Management, 2015, 352, 109-123.	1.4	156
36	Connecting Earth observation to high-throughput biodiversity data. Nature Ecology and Evolution, 2017, 1, 176.	3.4	156

#	Article	IF	Citations
37	Active promoters and insulators are marked by the centrosomal protein 190. EMBO Journal, 2009, 28, 877-888.	3.5	145
38	CTCF: insights into insulator function during development. Development (Cambridge), 2012, 139, 1045-1057.	1.2	143
39	Land management: data availability and process understanding for global change studies. Global Change Biology, 2017, 23, 512-533.	4.2	142
40	Assessing capacities of non-Annex I countries for national forest monitoring in the context of REDD+. Environmental Science and Policy, 2012, 19-20, 33-48.	2.4	141
41	Fusing Landsat and SAR time series to detect deforestation in the tropics. Remote Sensing of Environment, 2015, 156, 276-293.	4.6	141
42	Synergies of multiple remote sensing data sources for REDD+ monitoring. Current Opinion in Environmental Sustainability, 2012, 4, 696-706.	3.1	140
43	A joint initiative for harmonization and validation of land cover datasets. IEEE Transactions on Geoscience and Remote Sensing, 2006, 44, 1719-1727.	2.7	136
44	Monitoring, reporting and verification for national REDD + programmes: two proposals. Environmental Research Letters, 2011, 6, 014002.	2.2	134
45	Tracking disturbance-regrowth dynamics in tropical forests using structural change detection and Landsat time series. Remote Sensing of Environment, 2015, 169, 320-334.	4.6	131
46	A global land-cover validation data set, part I: fundamental design principles. International Journal of Remote Sensing, 2012, 33, 5768-5788.	1.3	129
47	Transitioning from change detection to monitoring with remote sensing: A paradigm shift. Remote Sensing of Environment, 2020, 238, 111558.	4.6	129
48	Land use patterns and related carbon losses following deforestation in South America. Environmental Research Letters, 2015, 10, 124004.	2.2	125
49	Non-destructive tree volume estimation through quantitative structure modelling: Comparing UAV laser scanning with terrestrial LIDAR. Remote Sensing of Environment, 2019, 233, 111355.	4.6	125
50	The global forest above-ground biomass pool for 2010 estimated from high-resolution satellite observations. Earth System Science Data, 2021, 13, 3927-3950.	3.7	123
51	GlobCover: ESA service for global land cover from MERIS. , 2007, , .		121
52	Performance of vegetation indices from Landsat time series in deforestation monitoring. International Journal of Applied Earth Observation and Geoinformation, 2016, 52, 318-327.	1.4	118
53	The potential of old maps and encyclopaedias for reconstructing historic European land cover/use change. Applied Geography, 2015, 59, 43-55.	1.7	117
54	Spectral characteristics of asphalt road aging and deterioration: implications for remote-sensing applications. Applied Optics, 2005, 44, 4327.	2.1	115

#	Article	IF	Citations
55	Combining satellite data for better tropical forest monitoring. Nature Climate Change, 2016, 6, 120-122.	8.1	112
56	Options for monitoring and estimating historical carbon emissions from forest degradation in the context of REDD+. Carbon Balance and Management, 2011, 6, 13.	1.4	109
57	The Importance of Consistent Global Forest Aboveground Biomass Product Validation. Surveys in Geophysics, 2019, 40, 979-999.	2.1	106
58	Revisiting land cover observation to address the needs of the climate modeling community. Biogeosciences, 2012, 9, 2145-2157.	1.3	98
59	Using spatial context to improve early detection of deforestation from Landsat time series. Remote Sensing of Environment, 2016, 172, 126-138.	4.6	97
60	The Role and Need for Space-Based Forest Biomass-Related Measurements in Environmental Management and Policy. Surveys in Geophysics, 2019, 40, 757-778.	2.1	92
61	Monitoring forest cover loss using multiple data streams, a case study of a tropical dry forest in Bolivia. ISPRS Journal of Photogrammetry and Remote Sensing, 2015, 107, 112-125.	4.9	91
62	Quantifying branch architecture of tropical trees using terrestrial LiDAR and 3D modelling. Trees - Structure and Function, 2018, 32, 1219-1231.	0.9	90
63	Shifts in regional water availability due to global tree restoration. Nature Geoscience, 2022, 15, 363-368.	5.4	90
64	Will REDD+ work? The need for interdisciplinary research to address key challenges. Current Opinion in Environmental Sustainability, 2012, 4, 590-596.	3.1	89
65	Models meet data: Challenges and opportunities in implementing land management in Earth system models. Global Change Biology, 2018, 24, 1470-1487.	4.2	86
66	Envisioning <scp>REDD</scp>+ in a postâ€Paris era: between evolving expectations and current practice. Wiley Interdisciplinary Reviews: Climate Change, 2017, 8, e425.	3.6	84
67	Comparative assessment of CORINE2000 and GLC2000: Spatial analysis of land cover data for Europe. International Journal of Applied Earth Observation and Geoinformation, 2007, 9, 425-437.	1.4	83
68	Research priorities in land use and landâ€cover change for the Earth system and integrated assessment modelling. International Journal of Climatology, 2010, 30, 2118-2128.	1.5	83
69	Exploring different forest definitions and their impact on developing REDD+ reference emission levels: A case study for Indonesia. Environmental Science and Policy, 2013, 33, 246-259.	2.4	83
70	Assessing global land cover reference datasets for different user communities. ISPRS Journal of Photogrammetry and Remote Sensing, 2015, 103, 93-114.	4.9	81
71	Forest disturbance alerts for the Congo Basin using Sentinel-1. Environmental Research Letters, 2021, 16, 024005.	2.2	81
72	Implications of sensor configuration and topography on vertical plant profiles derived from terrestrial LiDAR. Agricultural and Forest Meteorology, 2014, 194, 104-117.	1.9	80

#	Article	IF	Citations
73	Monitoring spring phenology with high temporal resolution terrestrial LiDAR measurements. Agricultural and Forest Meteorology, 2015, 203, 158-168.	1.9	79
74	Estimating aboveground net biomass change for tropical and subtropical forests: Refinement of IPCC default rates using forest plot data. Global Change Biology, 2019, 25, 3609-3624.	4.2	78
75	Linking requirements with capabilities for deforestation monitoring in the context of the UNFCCC-REDD process. Environmental Research Letters, 2007, 2, 045025.	2.2	77
76	New perspectives on the ecology of tree structure and tree communities through terrestrial laser scanning. Interface Focus, 2018, 8, 20170052.	1.5	76
77	A global land-cover validation data set, II: augmenting a stratified sampling design to estimate accuracy by region and land-cover class. International Journal of Remote Sensing, 2012, 33, 6975-6993.	1.3	75
78	Export-oriented deforestation in Mato Grosso: harbinger or exception for other tropical forests?. Philosophical Transactions of the Royal Society B: Biological Sciences, 2013, 368, 20120173.	1.8	74
79	Characterizing Forest Change Using Community-Based Monitoring Data and Landsat Time Series. PLoS ONE, 2016, 11, e0147121.	1.1	69
80	Fuelwood Savings and Carbon Emission Reductions by the Use of Improved Cooking Stoves in an Afromontane Forest, Ethiopia. Land, 2014, 3, 1137-1157.	1.2	68
81	Spatial Accuracy Assessment and Integration of Global Land Cover Datasets. Remote Sensing, 2015, 7, 15804-15821.	1.8	68
82	Quantifying the effect of forest age in annual net forest carbon balance. Environmental Research Letters, 2018, 13, 124018.	2.2	67
83	The Need for Improved Maps of Global Cropland. Eos, 2013, 94, 31-32.	0.1	66
84	On the Suitability of MODIS Time Series Metrics to Map Vegetation Types in Dry Savanna Ecosystems: A Case Study in the Kalahari of NE Namibia. Remote Sensing, 2009, 1, 620-643.	1.8	65
85	High aboveground carbon stock of African tropical montane forests. Nature, 2021, 596, 536-542.	13.7	65
86	Comparison of Satellite-Derived Land Surface Temperature and Air Temperature from Meteorological Stations on the Pan-Arctic Scale. Remote Sensing, 2013, 5, 2348-2367.	1.8	63
87	Population Density and Image Texture. Photogrammetric Engineering and Remote Sensing, 2006, 72, 187-196.	0.3	62
88	Mapping biomass with remote sensing: a comparison of methods for the case study of Uganda. Carbon Balance and Management, 2011, 6, 7.	1.4	61
89	Feature Level Fusion of Multi-Temporal ALOS PALSAR and Landsat Data for Mapping and Monitoring of Tropical Deforestation and Forest Degradation. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2013, 6, 2159-2173.	2.3	61
90	How countries link REDD+ interventions to drivers in their readiness plans: implications for monitoring systems. Environmental Research Letters, 2014, 9, 074004.	2.2	61

#	Article	IF	Citations
91	Upscaling Forest Biomass from Field to Satellite Measurements: Sources of Errors and Ways to Reduce Them. Surveys in Geophysics, 2019, 40, 881-911.	2.1	61
92	Spatio-temporal assessment of beech growth in relation to climate extremes in Slovenia â€“ An integrated approach using remote sensing and tree-ring data. Agricultural and Forest Meteorology, 2020, 287, 107925.	1.9	61
93	Evolving standards in land cover characterization. Journal of Land Use Science, 2006, 1, 157-168.	1.0	60
94	A Bayesian Approach to Combine Landsat and ALOS PALSAR Time Series for Near Real-Time Deforestation Detection. Remote Sensing, 2015, 7, 4973-4996.	1.8	60
95	Tree species classification based on explicit tree structure feature parameters derived from static terrestrial laser scanning data. Agricultural and Forest Meteorology, 2016, 216, 105-114.	1.9	60
96	Forest biomass retrieval approaches from earth observation in different biomes. International Journal of Applied Earth Observation and Geoinformation, 2019, 77, 53-68.	1.4	60
97	Reviews and syntheses: An empirical spatiotemporal description of the global surfaceâ€“atmosphere carbon fluxes: opportunities and data limitations. Biogeosciences, 2017, 14, 3685-3703.	1.3	58
98	Memory effects of climate and vegetation affecting net ecosystem CO2 fluxes in global forests. PLoS ONE, 2019, 14, e0211510.	1.1	58
99	Finite element analysis of trees in the wind based on terrestrial laser scanning data. Agricultural and Forest Meteorology, 2019, 265, 137-144.	1.9	54
100	Assessing effects of temporal compositing and varying observation periods for large-area land-cover mapping in semi-arid ecosystems: Implications for global monitoring. Remote Sensing of Environment, 2011, 115, 2445-2459.	4.6	52
101	Comparing methods for assessing the effectiveness of subnational REDD+ initiatives. Environmental Research Letters, 2017, 12, 074007.	2.2	52
102	An assessment of data sources, data quality and changes in national forest monitoring capacities in the Global Forest Resources Assessment 2005â€“2020. Environmental Research Letters, 2021, 16, 054029.	2.2	52
103	Linking community-based and national REDD+ monitoring: a review of the potential. Carbon Management, 2013, 4, 91-104.	1.2	51
104	Spatial and temporal deep learning methods for deriving land-use following deforestation: A pan-tropical case study using Landsat time series. Remote Sensing of Environment, 2021, 264, 112600.	4.6	50
105	A comprehensive framework for assessing the accuracy and uncertainty of global above-ground biomass maps. Remote Sensing of Environment, 2022, 272, 112917.	4.6	48
106	Imaging spectrometry and asphalt road surveys. Transportation Research Part C: Emerging Technologies, 2008, 16, 153-166.	3.9	47
107	Comparing terrestrial laser scanning and unmanned aerial vehicle structure from motion to assess top of canopy structure in tropical forests. Interface Focus, 2018, 8, 20170038.	1.5	47
108	Tree Biomass Equations from Terrestrial LiDAR: A Case Study in Guyana. Forests, 2019, 10, 527.	0.9	46

#	Article	IF	Citations
109	Trends in Spring Phenology of Western European Deciduous Forests. Remote Sensing, 2013, 5, 6159-6179.	1.8	45
110	Comparative assessment of thematic accuracy of GLC maps for specific applications using existing reference data. International Journal of Applied Earth Observation and Geoinformation, 2016, 44, 124-135.	1.4	45
111	Developing and applying a multi-purpose land cover validation dataset for Africa. Remote Sensing of Environment, 2018, 219, 298-309.	4.6	45
112	Assessing the influence of historic net and gross land changes on the carbon fluxes of Europe. Global Change Biology, 2016, 22, 2526-2539.	4.2	44
113	Characterizing Tropical Forest Cover Loss Using Dense Sentinel-1 Data and Active Fire Alerts. Remote Sensing, 2018, 10, 777.	1.8	43
114	Analysis of Visible/SWIR surface reflectance ratios for aerosol retrievals from satellite in Mexico City urban area. Atmospheric Chemistry and Physics, 2007, 7, 5467-5477.	1.9	42
115	Agriculture-driven deforestation in the tropics from 1990â€“2015: emissions, trends and uncertainties. Environmental Research Letters, 2018, 13, 014002.	2.2	42
116	REDD+ readiness: early insights on monitoring, reporting and verification systems of project developers. Environmental Research Letters, 2013, 8, 034038.	2.2	41
117	50 years of water extraction in the Pampa del Tamarugal basin: Can Prosopis tamarugo trees survive in the hyper-arid Atacama Desert (Northern Chile)?. Journal of Arid Environments, 2016, 124, 292-303.	1.2	41
118	Assessment of Workflow Feature Selection on Forest LAI Prediction with Sentinel-2A MSI, Landsat 7 ETM+ and Landsat 8 OLI. Remote Sensing, 2020, 12, 915.	1.8	41
119	Continuous monitoring of forest change dynamics with satellite time series. Remote Sensing of Environment, 2022, 269, 112829.	4.6	41
120	Towards operational validation of annual global land cover maps. Remote Sensing of Environment, 2021, 266, 112686.	4.6	40
121	A Functional Insulator Screen Identifies NURF and dREAM Components to Be Required for Enhancer-Blocking. PLoS ONE, 2014, 9, e107765.	1.1	39
122	Combining Satellite Data and Community-Based Observations for Forest Monitoring. Forests, 2014, 5, 2464-2489.	0.9	39
123	Institutional effectiveness of REDD+ MRV: Countries progress in implementing technical guidelines and good governance requirements. Environmental Science and Policy, 2016, 61, 42-52.	2.4	39
124	Estimating architecture-based metabolic scaling exponents of tropical trees using terrestrial LiDAR and 3D modelling. Forest Ecology and Management, 2019, 439, 132-145.	1.4	39
125	Addressing the need for improved land cover map products for policy support. Environmental Science and Policy, 2020, 112, 28-35.	2.4	39
126	Tropical deforestation drivers and associated carbon emission factors derived from remote sensing data. Environmental Research Letters, 2019, 14, 094022.	2.2	38

#	Article	IF	Citations
127	Relationships between declining summer sea ice, increasing temperatures and changing vegetation in the Siberian Arctic tundra from MODIS time series (2000â€“11). Environmental Research Letters, 2012, 7, 044028.	2.2	38
128	Quantifying tropical forest structure through terrestrial and UAV laser scanning fusion in Australian rainforests. Remote Sensing of Environment, 2022, 271, 112912.	4.6	38
129	deSpeckNet: Generalizing Deep Learning-Based SAR Image Despeckling. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-15.	2.7	37
130	A global analysis of multifaceted urbanization patterns using Earth Observation data from 1975 to 2015. Landscape and Urban Planning, 2022, 219, 104316.	3.4	37
131	Human migration, climate variability, and land degradation: hotspots of socio-ecological pressure in Ethiopia. Regional Environmental Change, 2017, 17, 1479-1492.	1.4	36
132	Investigating assumptions of crown archetypes for modelling LiDAR returns. Remote Sensing of Environment, 2013, 134, 39-49.	4.6	35
133	Mobile Devices for Community-Based REDD+ Monitoring: A Case Study for Central Vietnam. Sensors, 2013, 13, 21-38.	2.1	35
134	Why Maintaining Tropical Forests is Essential and Urgent for a Stable Climate. SSRN Electronic Journal, 0, , .	0.4	35
135	Indicators of Northern Eurasia's landâ€cover change trends from SPOTâ€VEGETATION timeâ€series analysis 1998â€“2005. International Journal of Remote Sensing, 2007, 28, 4199-4206.	1.3	34
136	REDD+ and climate smart agriculture in landscapes: A case study in Vietnam using companion modelling. Journal of Environmental Management, 2016, 172, 58-70.	3.8	34
137	Land Restoration in Latin America and the Caribbean: An Overview of Recent, Ongoing and Planned Restoration Initiatives and Their Potential for Climate Change Mitigation. Forests, 2019, 10, 510.	0.9	33
138	Implementation of BFASTmonitor Algorithm on Google Earth Engine to Support Large-Area and Sub-Annual Change Monitoring Using Earth Observation Data. Remote Sensing, 2020, 12, 2953.	1.8	33
139	Tropical deforestation and greenhouse gas emissions. Environmental Research Letters, 2007, 2, 045021.	2.2	32
140	An architectural understanding of natural sway frequencies in trees. Journal of the Royal Society Interface, 2019, 16, 20190116.	1.5	32
141	Land-Cover Observations as Part of a Global Earth Observation System of Systems (GEOSS): Progress, Activities, and Prospects. IEEE Systems Journal, 2008, 2, 414-423.	2.9	30
142	Tree height in tropical forest as measured by different ground, proximal, and remote sensing instruments, and impacts on above ground biomass estimates. International Journal of Applied Earth Observation and Geoinformation, 2019, 82, 101899.	1.4	30
143	Time series analysis for global land cover change monitoring: A comparison across sensors. Remote Sensing of Environment, 2022, 271, 112905.	4.6	30
144	Pan-Arctic Climate and Land Cover Trends Derived from Multi-Variate and Multi-Scale Analyses (1981â€“2012). Remote Sensing, 2014, 6, 2296-2316.	1.8	29

#	Article	IF	Citations
145	Hotspots of gross emissions from the land use sector: patterns, uncertainties, and leading emission sources for the period 2000â€“2005 in the tropics. Biogeosciences, 2016, 13, 4253-4269.	1.3	29
146	Modelling the spectral response of the desert tree Prosopis tamarugo to water stress. International Journal of Applied Earth Observation and Geoinformation, 2013, 21, 53-65.	1.4	26
147	Advancing agricultural greenhouse gas quantification [*]. Environmental Research Letters, 2013, 8, 011002.	2.2	26
148	Fusion of pan-tropical biomass maps using weighted averaging and regional calibration data. International Journal of Applied Earth Observation and Geoinformation, 2014, 31, 13-24.	1.4	26
149	Using Space-Time Features to Improve Detection of Forest Disturbances from Landsat Time Series. Remote Sensing, 2017, 9, 515.	1.8	26
150	Global data and tools for local forest cover loss and REDD+ performance assessment: Accuracy, uncertainty, complementarity and impact. International Journal of Applied Earth Observation and Geoinformation, 2019, 80, 295-311.	1.4	26
151	Space-time detection of deforestation, forest degradation and regeneration in montane forests of Eastern Tanzania. International Journal of Applied Earth Observation and Geoinformation, 2020, 88, 102063.	1.4	26
152	Design and Implementation of an Interactive Web-Based Near Real-Time Forest Monitoring System. PLoS ONE, 2016, 11, e0150935.	1.1	26
153	Large scale land acquisitions and REDD+: a synthesis of conflicts and opportunities. Environmental Research Letters, 2017, 12, 035010.	2.2	25
154	Forest Cover and Vegetation Degradation Detection in the Kavango Zambezi Transfrontier Conservation Area Using BFAST Monitor. Remote Sensing, 2018, 10, 1850.	1.8	25
155	Global land characterisation using land cover fractions at 100Âm resolution. Remote Sensing of Environment, 2021, 259, 112409.	4.6	25
156	Dealing with locally-driven degradation: A quick start option under REDD+. Carbon Balance and Management, 2011, 6, 16.	1.4	24
157	Identifying and Quantifying the Abundance of Economically Important Palms in Tropical Moist Forest Using UAV Imagery. Remote Sensing, 2020, 12, 9.	1.8	24
158	Bias in lidar-based canopy gap fraction estimates. Remote Sensing Letters, 2013, 4, 391-399.	0.6	23
159	Assessing Water Stress of Desert Tamarugo Trees Using in situ Data and Very High Spatial Resolution Remote Sensing. Remote Sensing, 2013, 5, 5064-5088.	1.8	23
160	Integrating global land cover datasets for deriving user-specific maps. International Journal of Digital Earth, 2017, 10, 219-237.	1.6	23
161	Intensification of dairy production can increase the GHG mitigation potential of the land use sector in East Africa. Global Change Biology, 2020, 26, 568-585.	4.2	23
162	BFAST Lite: A Lightweight Break Detection Method for Time Series Analysis. Remote Sensing, 2021, 13, 3308.	1.8	23

#	Article	IF	Citations
163	Towards an Integrated Global Land Cover Monitoring and Mapping System. Remote Sensing, 2016, 8, 1036.	1.8	22
164	Biodiversity Monitoring in Changing Tropical Forests: A Review of Approaches and New Opportunities. Remote Sensing, 2017, 9, 1059.	1.8	22
165	Mapping the Leaf Economic Spectrum across West African Tropical Forests Using UAV-Acquired Hyperspectral Imagery. Remote Sensing, 2018, 10, 1532.	1.8	22
166	Independent data for transparent monitoring of greenhouse gas emissions from the land use sector â€“ What do stakeholders think and need?. Environmental Science and Policy, 2018, 85, 101-112.	2.4	22
167	Global Land Cover Mapping: Current Status and Future Trends. Remote Sensing and Digital Image Processing, 2014, , 11-30.	0.7	22
168	A review of forest and tree plantation biomass equations in Indonesia. Annals of Forest Science, 2015, 72, 981-997.	0.8	21
169	Sustainable intensification of dairy production can reduce forest disturbance in Kenyan montane forests. Agriculture, Ecosystems and Environment, 2018, 265, 307-319.	2.5	21
170	Land Use and Land Cover Area Estimates From Class Membership Probability of a Random Forest Classification. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-11.	2.7	21
171	Aboveground forest biomass varies across continents, ecological zones and successional stages: refined IPCC default values for tropical and subtropical forests. Environmental Research Letters, 2022, 17, 014047.	2.2	21
172	The contribution of sectoral climate change mitigation options to national targets: a quantitative assessment of dairy production in Kenya. Environmental Research Letters, 2018, 13, 034016.	2.2	20
173	Assessing the structural differences between tropical forest types using Terrestrial Laser Scanning. Forest Ecology and Management, 2018, 429, 327-335.	1.4	20
174	Monitoring Deforestation at Sub-Annual Scales as Extreme Events in Landsat Data Cubes. Remote Sensing, 2016, 8, 651.	1.8	19
175	Mitigation of agricultural emissions in the tropics: comparing forest land-sparing options at the national level. Biogeosciences, 2015, 12, 4809-4825.	1.3	18
176	Why do forest products become less available?A pan-tropical comparison of drivers of forest-resource degradation. Environmental Research Letters, 2016, 11, 125010.	2.2	18
177	What is out there? a typology of land restoration projects in Latin America and the Caribbean. Environmental Research Communications, 2019, 1, 041004.	0.9	18
178	Examining the link between vegetation leaf area and landâ€“atmosphere exchange of water, energy, and carbon fluxes using FLUXNET data. Biogeosciences, 2020, 17, 4443-4457.	1.3	18
179	The feasibility of local participation in Measuring, Reporting and Verification (PMRV) for REDD+. PLoS ONE, 2017, 12, e0176897.	1.1	17
180	Monitoring Forest Phenology and Leaf Area Index with the Autonomous, Low-Cost Transmittance Sensor PASTiS-57. Remote Sensing, 2018, 10, 1032.	1.8	17

#	Article	IF	Citations
181	Towards a comprehensive and consistent global aquatic land cover characterization framework addressing multiple user needs. Remote Sensing of Environment, 2020, 250, 112034.	4.6	17
182	Options for a National Framework for Benefit Distribution and Their Relation to Community-Based and National REDD+ Monitoring. Forests, 2014, 5, 1596-1617.	0.9	16
183	Carbon emissions from land cover change in Central Vietnam. Carbon Management, 2016, 7, 333-346.	1.2	16
184	Error Sources in Deforestation Detection Using BFAST Monitor on Landsat Time Series Across Three Tropical Sites. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2016, 9, 3667-3679.	2.3	16
185	Climate-smart land use requires local solutions, transdisciplinary research, policy coherence and transparency. Carbon Management, 2018, 9, 291-301.	1.2	16
186	Thirty Years of Land Cover and Fraction Cover Changes over the Sudano-Sahel Using Landsat Time Series. Remote Sensing, 2020, 12, 3817.	1.8	16
187	Integrating in-situ, Landsat, and MODIS data for mapping in Southern African savannas: experiences of LCCS-based land-cover mapping in the Kalahari in Namibia. Environmental Monitoring and Assessment, 2011, 176, 531-547.	1.3	15
188	Roles and drivers of agribusiness shaping <scp>C</scp>limateâ€<scp>S</scp>mart <scp>L</scp>andscapes: A review. Sustainable Development, 2018, 26, 533-543.	6.9	15
189	Integrated assessment of deforestation drivers and their alignment with subnational climate change mitigation efforts. Environmental Science and Policy, 2020, 114, 352-365.	2.4	15
190	The Spectral Dimension in Urban Remote Sensing. Remote Sensing and Digital Image Processing, 2010, , 47-65.	0.7	15
191	Applying Imaging Spectrometry in Urban Areas. , 2006, , 137-164.		14
192	Using a Finer Resolution Biomass Map to Assess the Accuracy of a Regional, Map-Based Estimate of Forest Biomass. Surveys in Geophysics, 2019, 40, 1001-1015.	2.1	14
193	Assessing the accuracy of hyperspectral and multispectral satellite imagery for categorical and Quantitative mapping of salinity stress in sugarcane fields. International Journal of Applied Earth Observation and Geoinformation, 2016, 52, 412-421.	1.4	13
194	Linking Terrestrial LiDAR Scanner and Conventional Forest Structure Measurements with Multi-Modal Satellite Data. Forests, 2019, 10, 291.	0.9	13
195	Towards integrated monitoring of REDD+. Current Opinion in Environmental Sustainability, 2015, 14, 93-100.	3.1	12
196	Plant Structure-Function Relationships and Woody Tissue Respiration: Upscaling to Forests from Laser-Derived Measurements. Advances in Photosynthesis and Respiration, 2017, , 89-105.	1.0	12
197	Improving Forest Baseline Maps in Tropical Wetlands Using GEDI-Based Forest Height Information and Sentinel-1. Forests, 2021, 12, 1374.	0.9	12
198	Influence of solar zenith angle on the enhanced vegetation index of a Guyanese rainforest. Remote Sensing Letters, 2015, 6, 972-981.	0.6	11

#	Article	IF	Citations
199	The integration of empirical, remote sensing and modelling approaches enhances insight in the role of biodiversity in climate change mitigation by tropical forests. Current Opinion in Environmental Sustainability, 2017, 26-27, 69-76.	3.1	11
200	Does the Normalized Difference Vegetation Index explain spatial and temporal variability in sap velocity in temperate forest ecosystems?. Hydrology and Earth System Sciences, 2019, 23, 2077-2091.	1.9	11
201	Evaluating the Potential of PROBA-V Satellite Image Time Series for Improving LC Classification in Semi-Arid African Landscapes. Remote Sensing, 2016, 8, 987.	1.8	10
202	Historical development of institutional arrangements for forest monitoring and REDD + MRV in Peru: Discursive-institutionalist perspectives. Forest Policy and Economics, 2016, 71, 52-59.	1.5	10
203	A spatiotemporal geostatistical hurdle model approach for short-term deforestation prediction. Spatial Statistics, 2017, 21, 304-318.	0.9	10
204	Sub-annual tropical forest disturbance monitoring using harmonized Landsat and Sentinel-2 data. International Journal of Applied Earth Observation and Geoinformation, 2021, 102, 102386.	1.4	10
205	Detecting Leaf Pulvinar Movements on NDVI Time Series of Desert Trees: A New Approach for Water Stress Detection. PLoS ONE, 2014, 9, e106613.	1.1	10
206	Global estimation of above-ground biomass from spaceborne C-band scatterometer observations aided by LiDAR metrics of vegetation structure. Remote Sensing of Environment, 2022, 279, 113114.	4.6	10
207	Synthesis and Review: Advancing agricultural greenhouse gas quantification. Environmental Research Letters, 2014, 9, 075003.	2.2	9
208	Evaluating recovery metrics derived from optical time series over tropical forest ecosystems. Remote Sensing of Environment, 2022, 274, 112991.	4.6	9
209	Multi-gas and multi-source comparisons of six land use emission datasets and AFOLU estimates in the Fifth Assessment Report, for the tropics for 2000â€“2005. Biogeosciences, 2016, 13, 5799-5819.	1.3	8
210	Aiming for Sustainability and Scalability: Community Engagement in Forest Payment Schemes. Forests, 2020, 11, 444.	0.9	8
211	Variation in aboveground biomass in forests and woodlands in Tanzania along gradients in environmental conditions and human use. Environmental Research Letters, 2021, 16, 044014.	2.2	8
212	Intra-Annual Identification of Local Deforestation Hotspots in the Philippines Using Earth Observation Products. Forests, 2021, 12, 1008.	0.9	8
213	Identification of land surface temperature and albedo trends in AVHRR Pathfinder data from 1982 to 2005 for northern Siberia. International Journal of Remote Sensing, 2013, 34, 4491-4507.	1.3	6
214	Impacts of the forest definitions adopted by African countries on carbon conservation. Environmental Research Letters, 2018, 13, 104014.	2.2	6
215	Exploring Archetypes of Tropical Fire-Related Forest Disturbances Based on Dense Optical and Radar Satellite Data and Active Fire Alerts. Forests, 2021, 12, 456.	0.9	6
216	The effect of free vegetation water on the multi-frequency and polarimetric radar backscatter - first results from the TerraDew 2000 campaign. , 0, , .		5

#	Article	IF	Citations
217	Pan-Arctic Land Cover Mapping and Fire Assessment for the ESA Data User Element Permafrost. Photogrammetrie, Fernerkundung, Geoinformation, 2010, 2010, 283-293.	1.2	5
218	Conference Report: REDD+ related forest monitoring remains a key issue: a report following the recent UN climate conference in Doha. Carbon Management, 2013, 4, 125-127.	1.2	5
219	Rapid remote monitoring reveals spatial and temporal hotspots of carbon loss in Africaâ€™s rainforests. Communications Earth & Environment, 2022, 3, .	2.6	5
220	Improving the characterization of global aquatic land cover types using multi-source earth observation data. Remote Sensing of Environment, 2022, 278, 113103.	4.6	5
221	Population Estimation and Interpolation Using Remote Sensing. , 2006, , 269-290.		4
222	Mapping salinity stress in sugarcane fields with hyperspecteral satellite imagery. Proceedings of SPIE, 2012, , .	0.8	4
223	4. Monitoring REDD+ Impacts: Cross Scale Coordination And Interdisciplinary Integration. , 2015, , 55-79.		4
224	Tropical Forest Monitoring: Challenges and Recent Progress in Research. Remote Sensing, 2021, 13, 2252.	1.8	4
225	Utilizing the Global Land Cover 2000 reference dataset for a comparative accuracy assessment of 1 km global land cover maps. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XL-7/W3, 503-510.	0.2	4
226	Interpretation and analysis of polarimetric L-band E-SAR-data for the derivation of hydrologic land surface parameters. , 0, , .		3
227	Remote Sensing and Urban Growth Theory. , 2006, , 201-219.		3
228	Assessing error sources for Landsat time series analysis for tropical test sites in Viet Nam and Ethiopia. , 2013, , .		3
229	The first Above-ground Biomass map of the Philippines produced using Remote sensing and Machine learning. , 2021, , .		3
230	Intra-annual relationship between precipitation and forest disturbance in the African rainforest. Environmental Research Letters, 2022, 17, 044044.	2.2	3
231	Multi-parameter airborne SAR remote sensing of soil moisture in agricultural area. , 0, , .		2
232	Assessment of deforestation drivers and national carbon emissions using remote sensing analysis. , 2012, , .		2
233	Near real-time deforestation monitoring in tropical ecosystems using satellite image time series. , 2012, , .		2
234	Capacity Development for Use of Remote Sensing for REDD+ MRV Using Online and Offline Activities: Impacts and Lessons Learned. Remote Sensing, 2021, 13, 2172.	1.8	2

#	Article	IF	Citations
235	Quantifying Tropical Forest Stand Structure Through Terrestrial and UAV Laser Scanning Fusion. , 2021, , .		2
236	Assessing a Prototype Database for Comprehensive Global Aquatic Land Cover Mapping. Remote Sensing, 2021, 13, 4012.	1.8	2
237	Near real-time tropical forest disturbance monitoring using Landsat time series and local expert monitoring data. , 2013, , .		1
238	Workshop Report: Science solutions to policy challenges for evolving REDD+ measuring, reporting and verification requirements: report from a multistakeholder workshop. Carbon Management, 2013, 4, 587-590.	1.2	1
239	A global land-cover validation data set, part I: fundamental design principles. , 0, .		1
240	Next generation land cover monitoring services: Towards a flexible, user-oriented approach. , 2021, , .		1
241	A suitable degree of standardization: a reply to the comments by Comberet al.. Journal of Land Use Science, 2008, 2, 289-291.	1.0	0
242	Consistent forest change maps 1981–2000 from the AVHRR time series: Case studies for South America and Indonesia. , 2015, , .		0
243	Multi-Scale Vegetation and Water Body Mapping of the Northern Latitudes in Siberia with Optical Remote Sensing. Springer Water, 2016, , 451-470.	0.2	0
244	Forest Change and REDD+ Strategies. Water Resources Development and Management, 2017, , 33-68.	0.3	0
245	Research and Development Needs for REDD+ and Forest Monitoring. , 2021, , .		0
246	Thirty Years of Land Cover and Fraction Cover Changes Over the Sudano-Sahel Using Landsat Time Series. , 2021, , .		0
247	Dual Polarimetric SAR Covariance Matrix Estimation Using Deep Learning. , 2020, , .		0