

Greg Asner

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564
papers

53,421
citations

111
h-index

216
g-index

602
ext. papers

61,030
ext. citations

7
avg, IF

7.9
L-index

#	Paper	IF	Citations
564	Global consequences of land use. <i>Science</i> , 2005 , 309, 570-4	33.3	7529
563	Nitrogen Cycles: Past, Present, and Future. <i>Biogeochemistry</i> , 2004 , 70, 153-226	3.8	3493
562	The velocity of climate change. <i>Nature</i> , 2009 , 462, 1052-5	50.4	1497
561	PROSPECT + SAIL models: A review of use for vegetation characterization. <i>Remote Sensing of Environment</i> , 2009 , 113, S56-S66	13.2	893
560	Biophysical and Biochemical Sources of Variability in Canopy Reflectance. <i>Remote Sensing of Environment</i> , 1998 , 64, 234-253	13.2	779
559	Insulin staining of ES cell progeny from insulin uptake. <i>Science</i> , 2003 , 299, 363	33.3	776
558	GRAZING SYSTEMS, ECOSYSTEM RESPONSES, AND GLOBAL CHANGE. <i>Annual Review of Environment and Resources</i> , 2004 , 29, 261-299	17.2	724
557	Selective logging in the Brazilian Amazon. <i>Science</i> , 2005 , 310, 480-2	33.3	706
556	PROSPECT-4 and 5: Advances in the leaf optical properties model separating photosynthetic pigments. <i>Remote Sensing of Environment</i> , 2008 , 112, 3030-3043	13.2	583
555	Land-use choices: balancing human needs and ecosystem function. <i>Frontiers in Ecology and the Environment</i> , 2004 , 2, 249-257	5.5	563
554	Global synthesis of leaf area index observations: implications for ecological and remote sensing studies. <i>Global Ecology and Biogeography</i> , 2003 , 12, 191-205	6.1	555
553	Dissolved Organic Carbon in Terrestrial Ecosystems: Synthesis and a Model. <i>Ecosystems</i> , 2001 , 4, 29-48	3.9	495
552	High-resolution forest carbon stocks and emissions in the Amazon. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 16738-42	11.5	485
551	Retrieval of foliar information about plant pigment systems from high resolution spectroscopy. <i>Remote Sensing of Environment</i> , 2009 , 113, S67-S77	13.2	453
550	Endmember variability in Spectral Mixture Analysis: A review. <i>Remote Sensing of Environment</i> , 2011 , 115, 1603-1616	13.2	427
549	TRY plant trait database - enhanced coverage and open access. <i>Global Change Biology</i> , 2020 , 26, 119-188	11.4	399
548	Characterizing canopy biochemistry from imaging spectroscopy and its application to ecosystem studies. <i>Remote Sensing of Environment</i> , 2009 , 113, S78-S91	13.2	392

547	Using Imaging Spectroscopy to Study Ecosystem Processes and Properties. <i>BioScience</i> , 2004 , 54, 523	5.7	369
546	Changing drivers of deforestation and new opportunities for conservation. <i>Conservation Biology</i> , 2009 , 23, 1396-405	6	367
545	Amazonia revealed: forest degradation and loss of ecosystem goods and services in the Amazon Basin. <i>Frontiers in Ecology and the Environment</i> , 2007 , 5, 25-32	5.5	363
544	An integrated pan-tropical biomass map using multiple reference datasets. <i>Global Change Biology</i> , 2016 , 22, 1406-20	11.4	358
543	Moisture Effects on Soil Reflectance. <i>Soil Science Society of America Journal</i> , 2002 , 66, 722-727	2.5	352
542	A contemporary assessment of change in humid tropical forests. <i>Conservation Biology</i> , 2009 , 23, 1386-956		345
541	Forest fragmentation and edge effects from deforestation and selective logging in the Brazilian Amazon. <i>Biological Conservation</i> , 2008 , 141, 1745-1757	6.2	345
540	Controls over foliar N:P ratios in tropical rain forests. <i>Ecology</i> , 2007 , 88, 107-18	4.6	331
539	Cloud cover in Landsat observations of the Brazilian Amazon. <i>International Journal of Remote Sensing</i> , 2001 , 22, 3855-3862	3.1	316
538	Spectral and chemical analysis of tropical forests: Scaling from leaf to canopy levels. <i>Remote Sensing of Environment</i> , 2008 , 112, 3958-3970	13.2	309
537	Committed carbon emissions, deforestation, and community land conversion from oil palm plantation expansion in West Kalimantan, Indonesia. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 7559-64	11.5	289
536	Spectral unmixing of vegetation, soil and dry carbon cover in arid regions: Comparing multispectral and hyperspectral observations. <i>International Journal of Remote Sensing</i> , 2002 , 23, 3939-3958	3.1	287
535	Carbon emissions from forest conversion by Kalimantan oil palm plantations. <i>Nature Climate Change</i> , 2013 , 3, 283-287	21.4	278
534	A Biogeophysical Approach for Automated SWIR Unmixing of Soils and Vegetation. <i>Remote Sensing of Environment</i> , 2000 , 74, 99-112	13.2	273
533	A universal airborne LiDAR approach for tropical forest carbon mapping. <i>Oecologia</i> , 2012 , 168, 1147-60	2.9	268
532	Airborne spectranomics: mapping canopy chemical and taxonomic diversity in tropical forests. <i>Frontiers in Ecology and the Environment</i> , 2009 , 7, 269-276	5.5	268
531	Endmember bundles: a new approach to incorporating endmember variability into spectral mixture analysis. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2000 , 38, 1083-1094	8.1	262
530	Observing terrestrial ecosystems and the carbon cycle from space. <i>Global Change Biology</i> , 2015 , 21, 1762-76		257

529	Land-use allocation protects the Peruvian Amazon. <i>Science</i> , 2007 , 317, 1233-6	33.3	247
528	Condition and fate of logged forests in the Brazilian Amazon. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 12947-50	11.5	246
527	Global variability in leaf respiration in relation to climate, plant functional types and leaf traits. <i>New Phytologist</i> , 2015 , 206, 614-36	9.8	244
526	Net changes in regional woody vegetation cover and carbon storage in Texas Drylands, 1937-1999. <i>Global Change Biology</i> , 2003 , 9, 316-335	11.4	240
525	A Global Deal For Nature: Guiding principles, milestones, and targets. <i>Science Advances</i> , 2019 , 5, eaaw2862	11.3	238
524	Remote sensing of regional crop production in the Yaqui Valley, Mexico: estimates and uncertainties. <i>Agriculture, Ecosystems and Environment</i> , 2003 , 94, 205-220	5.7	238
523	Carnegie Airborne Observatory-2: Increasing science data dimensionality via high-fidelity multi-sensor fusion. <i>Remote Sensing of Environment</i> , 2012 , 124, 454-465	13.2	235
522	Carnegie Airborne Observatory: in-flight fusion of hyperspectral imaging and waveform light detection and ranging for three-dimensional studies of ecosystems. <i>Journal of Applied Remote Sensing</i> , 2007 , 1, 013536	1.4	232
521	The biogeochemical heterogeneity of tropical forests. <i>Trends in Ecology and Evolution</i> , 2008 , 23, 424-31	10.9	229
520	Cropland distributions from temporal unmixing of MODIS data. <i>Remote Sensing of Environment</i> , 2004 , 93, 412-422	13.2	227
519	Progressive forest canopy water loss during the 2012-2015 California drought. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, E249-55	11.5	226
518	Regional ecosystem structure and function: ecological insights from remote sensing of tropical forests. <i>Trends in Ecology and Evolution</i> , 2007 , 22, 414-23	10.9	225
517	Optimizing spectral indices and chemometric analysis of leaf chemical properties using radiative transfer modeling. <i>Remote Sensing of Environment</i> , 2011 , 115, 2742-2750	13.2	215
516	Drought stress and carbon uptake in an Amazon forest measured with spaceborne imaging spectroscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 6039-44	11.5	214
515	Mapping tropical forest carbon: Calibrating plot estimates to a simple LiDAR metric. <i>Remote Sensing of Environment</i> , 2014 , 140, 614-624	13.2	207
514	Quantifying forest canopy traits: Imaging spectroscopy versus field survey. <i>Remote Sensing of Environment</i> , 2015 , 158, 15-27	13.2	205
513	Projections of future meteorological drought and wet periods in the Amazon. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 13172-7	11.5	203
512	Large-scale impacts of herbivores on the structural diversity of African savannas. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 4947-52	11.5	198

511	Remote analysis of biological invasion and biogeochemical change. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 4383-6	11.5	198
510	Invasive plants transform the three-dimensional structure of rain forests. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 4519-23	11.5	197
509	Combining paleo-data and modern enclosure experiments to assess the impact of megafauna extinctions on woody vegetation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 847-55	11.5	192
508	Classification of savanna tree species, in the Greater Kruger National Park region, by integrating hyperspectral and LiDAR data in a Random Forest data mining environment. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2012 , 69, 167-179	11.8	192
507	Analysis of wheat yield and climatic trends in Mexico. <i>Field Crops Research</i> , 2005 , 94, 250-256	5.5	189
506	Elevated rates of gold mining in the Amazon revealed through high-resolution monitoring. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 18454-9	11.5	184
505	Automated mapping of tropical deforestation and forest degradation: CLASlite. <i>Journal of Applied Remote Sensing</i> , 2009 , 3, 033543	1.4	184
504	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	5.3	184
503	Remote sensing of native and invasive species in Hawaiian forests. <i>Remote Sensing of Environment</i> , 2008 , 112, 1912-1926	13.2	180
502	Satellite estimates of productivity and light use efficiency in United States agriculture, 1982-98. <i>Global Change Biology</i> , 2002 , 8, 722-735	11.4	180
501	Advances in animal ecology from 3D-LiDAR ecosystem mapping. <i>Trends in Ecology and Evolution</i> , 2014 , 29, 681-91	10.9	178
500	Applications of remote sensing to alien invasive plant studies. <i>Sensors</i> , 2009 , 9, 4869-89	3.8	178
499	Direct impacts on local climate of sugar-cane expansion in Brazil. <i>Nature Climate Change</i> , 2011 , 1, 105-109	11.4	176
498	New Directions in Earth Observing: Scientific Applications of Multiangle Remote Sensing. <i>Bulletin of the American Meteorological Society</i> , 1999 , 80, 2209-2228	6.1	174
497	Evaluating uncertainty in mapping forest carbon with airborne LiDAR. <i>Remote Sensing of Environment</i> , 2011 , 115, 3770-3774	13.2	169
496	Measuring Fractional Cover and Leaf Area Index in Arid Ecosystems. <i>Remote Sensing of Environment</i> , 2000 , 74, 45-57	13.2	169
495	Spectroscopy of canopy chemicals in humid tropical forests. <i>Remote Sensing of Environment</i> , 2011 , 115, 3587-3598	13.2	166
494	Drought impacts on the Amazon forest: the remote sensing perspective. <i>New Phytologist</i> , 2010 , 187, 569-78	9.8	166

493	Beyond 3-D: The new spectrum of lidar applications for earth and ecological sciences. <i>Remote Sensing of Environment</i> , 2016 , 186, 372-392	13.2	165
492	Monitoring plant functional diversity from space. <i>Nature Plants</i> , 2016 , 2, 16024	11.5	164
491	Tropical forest carbon assessment: integrating satellite and airborne mapping approaches. <i>Environmental Research Letters</i> , 2009 , 4, 034009	6.2	164
490	Forest carbon densities and uncertainties from Lidar, QuickBird, and field measurements in California. <i>Remote Sensing of Environment</i> , 2010 , 114, 1561-1575	13.2	160
489	Canopy phylogenetic, chemical and spectral assembly in a lowland Amazonian forest. <i>New Phytologist</i> , 2011 , 189, 999-1012	9.8	158
488	Remote sensing of selective logging in Amazonia. <i>Remote Sensing of Environment</i> , 2002 , 80, 483-496	13.2	158
487	Mapping tree species composition in South African savannas using an integrated airborne spectral and LiDAR system. <i>Remote Sensing of Environment</i> , 2012 , 125, 214-226	13.2	157
486	Comparison of gully erosion estimates using airborne and ground-based LiDAR on Santa Cruz Island, California. <i>Geomorphology</i> , 2010 , 118, 288-300	4.3	152
485	Mapping Savanna Tree Species at Ecosystem Scales Using Support Vector Machine Classification and BRDF Correction on Airborne Hyperspectral and LiDAR Data. <i>Remote Sensing</i> , 2012 , 4, 3462-3480	5	146
484	Airborne laser-guided imaging spectroscopy to map forest trait diversity and guide conservation. <i>Science</i> , 2017 , 355, 385-389	33.3	145
483	Herbivory makes major contributions to ecosystem carbon and nutrient cycling in tropical forests. <i>Ecology Letters</i> , 2014 , 17, 324-32	10	140
482	Forest canopy damage and recovery in reduced-impact and conventional selective logging in eastern Para, Brazil. <i>Forest Ecology and Management</i> , 2002 , 168, 77-89	3.9	139
481	Extreme differences in forest degradation in Borneo: comparing practices in Sarawak, Sabah, and Brunei. <i>PLoS ONE</i> , 2013 , 8, e69679	3.7	139
480	Tree Species Discrimination in Tropical Forests Using Airborne Imaging Spectroscopy. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2013 , 51, 73-84	8.1	138
479	Hyperspectral Remote Sensing of Canopy Biodiversity in Hawaiian Lowland Rainforests. <i>Ecosystems</i> , 2007 , 10, 536-549	3.9	138
478	Landscape fragmentation, severe drought, and the new Amazon forest fire regime 2015 , 25, 1493-505		137
477	CANOPY DAMAGE AND RECOVERY AFTER SELECTIVE LOGGING IN AMAZONIA: FIELD AND SATELLITE STUDIES 2004 , 14, 280-298		137
476	Invasive species detection in Hawaiian rainforests using airborne imaging spectroscopy and LiDAR. <i>Remote Sensing of Environment</i> , 2008 , 112, 1942-1955	13.2	136

475	Coarse woody debris in undisturbed and logged forests in the eastern Brazilian Amazon. <i>Global Change Biology</i> , 2004 , 10, 784-795	11.4	133
474	Uncertainty in the spatial distribution of tropical forest biomass: a comparison of pan-tropical maps. <i>Carbon Balance and Management</i> , 2013 , 8, 10	3.6	131
473	Multi-trophic invasion resistance in Hawaii: bioacoustics, field surveys, and airborne remote sensing 2007 , 17, 2137-44		129
472	Size and frequency of natural forest disturbances and the Amazon forest carbon balance. <i>Nature Communications</i> , 2014 , 5, 3434	17.4	128
471	Titling indigenous communities protects forests in the Peruvian Amazon. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 4123-4128	11.5	127
470	Toward an integrated monitoring framework to assess the effects of tropical forest degradation and recovery on carbon stocks and biodiversity. <i>Global Change Biology</i> , 2016 , 22, 92-109	11.4	126
469	Warming-related increases in soil CO ₂ efflux are explained by increased below-ground carbon flux. <i>Nature Climate Change</i> , 2014 , 4, 822-827	21.4	126
468	Automated Extraction of Image-Based Endmember Bundles for Improved Spectral Unmixing. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2012 , 5, 396-408	4.7	126
467	Postfire response of North American boreal forest net primary productivity analyzed with satellite observations. <i>Global Change Biology</i> , 2003 , 9, 1145-1157	11.4	126
466	Impact of Tissue, Canopy, and Landscape Factors on the Hyperspectral Reflectance Variability of Arid Ecosystems. <i>Remote Sensing of Environment</i> , 2000 , 74, 69-84	13.2	125
465	Satellite observation of El Niño effects on Amazon Forest phenology and productivity. <i>Geophysical Research Letters</i> , 2000 , 27, 981-984	4.9	124
464	Environmental and Biotic Controls over Aboveground Biomass Throughout a Tropical Rain Forest. <i>Ecosystems</i> , 2009 , 12, 261-278	3.9	122
463	Amazonian functional diversity from forest canopy chemical assembly. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 5604-9	11.5	119
462	Synergies of multiple remote sensing data sources for REDD+ monitoring. <i>Current Opinion in Environmental Sustainability</i> , 2012 , 4, 696-706	7.2	119
461	Taxonomy and remote sensing of leaf mass per area (LMA) in humid tropical forests 2011 , 21, 85-98		117
460	Changes in aboveground primary production and carbon and nitrogen pools accompanying woody plant encroachment in a temperate savanna. <i>Global Change Biology</i> , 2006 , 12, 1733-1747	11.4	117
459	Multi-method ensemble selection of spectral bands related to leaf biochemistry. <i>Remote Sensing of Environment</i> , 2015 , 164, 57-65	13.2	116
458	Plants reverse warming effect on ecosystem water balance. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003 , 100, 9892-3	11.5	115

457	Ecological Research Needs from Multiangle Remote Sensing Data. <i>Remote Sensing of Environment</i> , 1998 , 63, 155-165	13.2	113
456	ECOLOGICAL RESEARCH IN THE LARGE-SCALE BIOSPHERE-ATMOSPHERE EXPERIMENT IN AMAZONIA: EARLY RESULTS 2004 , 14, 3-16		113
455	Mapping tropical forest canopy diversity using high-fidelity imaging spectroscopy 2014 , 24, 1289-96		112
454	Landscape-scale effects of herbivores on treefall in African savannas. <i>Ecology Letters</i> , 2012 , 15, 1211-1217		112
453	Trends in North American net primary productivity derived from satellite observations, 1982-1998. <i>Global Biogeochemical Cycles</i> , 2002 , 16, 2-1-2-14	5.9	111
452	An above-ground biomass map of African savannahs and woodlands at 25 m resolution derived from ALOS PALSAR. <i>Remote Sensing of Environment</i> , 2018 , 206, 156-173	13.2	109
451	Soil-Atmosphere Exchange of Nitrous Oxide, Nitric Oxide, Methane, and Carbon Dioxide in Logged and Undisturbed Forest in the Tapajos National Forest, Brazil. <i>Earth Interactions</i> , 2005 , 9, 1-28	1.5	109
450	Moisture Effects on Soil Reflectance 2002 , 66, 722		106
449	Area-based vs tree-centric approaches to mapping forest carbon in Southeast Asian forests from airborne laser scanning data. <i>Remote Sensing of Environment</i> , 2017 , 194, 77-88	13.2	105
448	Leaf chemical and spectral diversity in Australian tropical forests 2009 , 19, 236-53		105
447	Variability in Leaf and Litter Optical Properties: Implications for BRDF Model Inversions Using AVHRR, MODIS, and MISR. <i>Remote Sensing of Environment</i> , 1998 , 63, 243-257	13.2	104
446	Nitrogen cycling in tropical and temperate savannas. <i>Biogeochemistry</i> , 2006 , 79, 209-237	3.8	104
445	Brightness-normalized Partial Least Squares Regression for hyperspectral data. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2010 , 111, 1947-1957	2.1	103
444	Leaf aging of Amazonian canopy trees as revealed by spectral and physiochemical measurements. <i>New Phytologist</i> , 2017 , 214, 1049-1063	9.8	101
443	The Decoupling of Terrestrial Carbon and Nitrogen Cycles. <i>BioScience</i> , 1997 , 47, 226-234	5.7	101
442	Effects of fire on woody vegetation structure in African savanna 2010 , 20, 1865-75		100
441	Spectranomics: Emerging science and conservation opportunities at the interface of biodiversity and remote sensing. <i>Global Ecology and Conservation</i> , 2016 , 8, 212-219	2.8	99
440	Deforestation risk due to commodity crop expansion in sub-Saharan Africa. <i>Environmental Research Letters</i> , 2017 , 12, 044015	6.2	98

439	LiDAR measurements of canopy structure predict spatial distribution of a tropical mature forest primate. <i>Remote Sensing of Environment</i> , 2012 , 127, 98-105	13.2	97
438	Convergent structural responses of tropical forests to diverse disturbance regimes. <i>Ecology Letters</i> , 2009 , 12, 887-97	10	96
437	Woody plants in grasslands: post-encroachment stand dynamics 2008 , 18, 928-44		96
436	Spatial and temporal probabilities of obtaining cloud-free Landsat images over the Brazilian tropical savanna. <i>International Journal of Remote Sensing</i> , 2007 , 28, 2739-2752	3.1	94
435	Canopy shadow in IKONOS satellite observations of tropical forests and savannas. <i>Remote Sensing of Environment</i> , 2003 , 87, 521-533	13.2	94
434	SCALE DEPENDENCE OF ABSORPTION OF PHOTOSYNTHETICALLY ACTIVE RADIATION IN TERRESTRIAL ECOSYSTEMS 1998 , 8, 1003-1021		94
433	A tale of two "forests": random forest machine learning AIDS tropical forest carbon mapping. <i>PLoS ONE</i> , 2014 , 9, e85993	3.7	93
432	Multi-temporal hyperspectral mixture analysis and feature selection for invasive species mapping in rainforests. <i>Remote Sensing of Environment</i> , 2013 , 136, 14-27	13.2	93
431	Genetic variation in leaf pigment, optical and photosynthetic function among diverse phenotypes of <i>Metrosideros polymorpha</i> grown in a common garden. <i>Oecologia</i> , 2007 , 151, 387-400	2.9	92
430	Spatial and temporal dynamics of forest canopy gaps following selective logging in the eastern Amazon. <i>Global Change Biology</i> , 2004 , 10, 765-783	11.4	92
429	Toward the Integrated Marine Debris Observing System. <i>Frontiers in Marine Science</i> , 2019 , 6,	4.5	91
428	Satellite-derived increases in net primary productivity across North America, 1982-1998. <i>Geophysical Research Letters</i> , 2002 , 29, 69-1-69-4	4.9	91
427	Functional and biological diversity of foliar spectra in tree canopies throughout the Andes to Amazon region. <i>New Phytologist</i> , 2014 , 204, 127-139	9.8	90
426	Integrating technologies for scalable ecology and conservation. <i>Global Ecology and Conservation</i> , 2016 , 7, 262-275	2.8	88
425	Observing changing ecological diversity in the Anthropocene. <i>Frontiers in Ecology and the Environment</i> , 2013 , 11, 129-137	5.5	88
424	Predicting tropical plant physiology from leaf and canopy spectroscopy. <i>Oecologia</i> , 2011 , 165, 289-99	2.9	88
423	Forest Attributes from Radar Interferometric Structure and Its Fusion with Optical Remote Sensing. <i>BioScience</i> , 2004 , 54, 561	5.7	88
422	High-fidelity national carbon mapping for resource management and REDD+. <i>Carbon Balance and Management</i> , 2013 , 8, 7	3.6	86

421	Controls over aboveground forest carbon density on Barro Colorado Island, Panama. <i>Biogeosciences</i> , 2011 , 8, 1615-1629	4.6	86
420	Options for monitoring and estimating historical carbon emissions from forest degradation in the context of REDD+. <i>Carbon Balance and Management</i> , 2011 , 6, 13	3.6	85
419	Estimating Canopy Structure in an Amazon Forest from Laser Range Finder and IKONOS Satellite Observations1. <i>Biotropica</i> , 2002 , 34, 483-492	2.3	85
418	Amazonian landscapes and the bias in field studies of forest structure and biomass. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, E5224-32	11.5	84
417	Operational Tree Species Mapping in a Diverse Tropical Forest with Airborne Imaging Spectroscopy. <i>PLoS ONE</i> , 2015 , 10, e0118403	3.7	83
416	Amazon Forest Structure from IKONOS Satellite Data and the Automated Characterization of Forest Canopy Properties. <i>Biotropica</i> , 2008 , 40, 141-150	2.3	83
415	Influence of deforestation, logging, and fire on malaria in the Brazilian Amazon. <i>PLoS ONE</i> , 2014 , 9, e85735	3.5	81
414	Spatial variability and abiotic determinants of termite mounds throughout a savanna catchment. <i>Ecography</i> , 2014 , 37, 852-862	6.5	78
413	Lion hunting behaviour and vegetation structure in an African savanna. <i>Animal Behaviour</i> , 2013 , 85, 899-906	2.6	78
412	High-resolution carbon mapping on the million-hectare Island of Hawaii. <i>Frontiers in Ecology and the Environment</i> , 2011 , 9, 434-439	5.5	78
411	The relative influence of fire and herbivory on savanna three-dimensional vegetation structure. <i>Biological Conservation</i> , 2009 , 142, 1693-1700	6.2	77
410	Effects of Protected Areas on Forest Cover Change and Local Communities: Evidence from the Peruvian Amazon. <i>World Development</i> , 2016 , 78, 288-307	5.5	76
409	High-resolution mapping of forest carbon stocks in the Colombian Amazon. <i>Biogeosciences</i> , 2012 , 9, 2683-2696	4.6	76
408	Forest canopy gap distributions in the southern Peruvian Amazon. <i>PLoS ONE</i> , 2013 , 8, e60875	3.7	76
407	Spectroscopic classification of tropical forest species using radiative transfer modeling. <i>Remote Sensing of Environment</i> , 2011 , 115, 2415-2422	13.2	76
406	Imaging spectroscopy for desertification studies: comparing AVIRIS and EO-1 Hyperion in Argentina drylands. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2003 , 41, 1283-1296	8.1	76
405	Effects of Land-Use Change on the Carbon Balance of Terrestrial Ecosystems. <i>Geophysical Monograph Series</i> , 2004 , 85-98	1.1	75
404	Topographic controls on soil nitrogen availability in a lowland tropical forest. <i>Ecology</i> , 2015 , 96, 1561-1574	4.6	74

403	Landscape-scale changes in forest structure and functional traits along an Andes-to-Amazon elevation gradient. <i>Biogeosciences</i> , 2014 , 11, 843-856	4.6	72
402	Dry season mapping of savanna forage quality, using the hyperspectral Carnegie Airborne Observatory sensor. <i>Remote Sensing of Environment</i> , 2011 , 115, 1478-1488	13.2	71
401	Ground-based and remotely sensed nutrient availability across a tropical landscape. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 10909-12	11.5	71
400	Sources of Canopy Chemical and Spectral Diversity in Lowland Bornean Forest. <i>Ecosystems</i> , 2012 , 15, 504-517	3.9	70
399	Temporal variability of forest fires in eastern Amazonia 2011 , 21, 2397-412		69
398	Long-term effects of fragmentation and fragment properties on bird species richness in Hawaiian forests. <i>Biological Conservation</i> , 2010 , 143, 280-288	6.2	69
397	DESERTIFICATION IN CENTRAL ARGENTINA: CHANGES IN ECOSYSTEM CARBON AND NITROGEN FROM IMAGING SPECTROSCOPY 2003 , 13, 629-648		69
396	Large-scale climatic and geophysical controls on the leaf economics spectrum. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, E4043-51	11.5	68
395	Plant leaf wax biomarkers capture gradients in hydrogen isotopes of precipitation from the Andes and Amazon. <i>Geochimica Et Cosmochimica Acta</i> , 2016 , 182, 155-172	5.5	68
394	Necromass in undisturbed and logged forests in the Brazilian Amazon. <i>Forest Ecology and Management</i> , 2007 , 238, 309-318	3.9	68
393	Landscape biogeochemistry reflected in shifting distributions of chemical traits in the Amazon forest canopy. <i>Nature Geoscience</i> , 2015 , 8, 567-573	18.3	66
392	Airborne lidar survey of irrigated agricultural landscapes: an application of the slope contrast method. <i>Journal of Archaeological Science</i> , 2011 , 38, 2141-2154	2.9	66
391	Targeted carbon conservation at national scales with high-resolution monitoring. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, E5016-22	11.5	65
390	Regional insight into savanna hydrogeomorphology from termite mounds. <i>Nature Communications</i> , 2010 , 1, 65	17.4	65
389	Physical and biogeochemical controls over terrestrial ecosystem responses to nitrogen deposition. <i>Biogeochemistry</i> , 2001 , 54, 1-39	3.8	65
388	A Revised Measurement Methodology for Conifer Needles Spectral Optical Properties: Evaluating the Influence of Gaps between Elements. <i>Remote Sensing of Environment</i> , 1999 , 68, 177-192	13.2	65
387	A "Global Safety Net" to reverse biodiversity loss and stabilize Earth's climate. <i>Science Advances</i> , 2020 , 6,	14.3	65
386	Combined effects of climate and land-use change on the future of humid tropical forests. <i>Conservation Letters</i> , 2010 , 3, 395-403	6.9	64

385	Evapotranspiration and energy balance of native wet montane cloud forest in Hawai'i. <i>Agricultural and Forest Meteorology</i> , 2009 , 149, 230-243	5.8	64
384	Desertification alters regional ecosystem-climate interactions. <i>Global Change Biology</i> , 2005 , 11, 182-194	11.4	64
383	Rapid Assessments of Amazon Forest Structure and Biomass Using Small Unmanned Aerial Systems. <i>Remote Sensing</i> , 2016 , 8, 615	5	64
382	Cover of tall trees best predicts California spotted owl habitat. <i>Forest Ecology and Management</i> , 2017 , 405, 166-178	3.9	63
381	Mapping Recent Deforestation and Forest Disturbance in Northeastern Madagascar. <i>Tropical Conservation Science</i> , 2013 , 6, 1-15	1.4	63
380	Solar radiation and functional traits explain the decline of forest primary productivity along a tropical elevation gradient. <i>Ecology Letters</i> , 2017 , 20, 730-740	10	62
379	Contrasting leaf chemical traits in tropical lianas and trees: implications for future forest composition. <i>Ecology Letters</i> , 2012 , 15, 1001-7	10	62
378	Leaf-level photosynthetic capacity in lowland Amazonian and high-elevation Andean tropical moist forests of Peru. <i>New Phytologist</i> , 2017 , 214, 1002-1018	9.8	62
377	The spatial extent of termite influences on herbivore browsing in an African savanna. <i>Biological Conservation</i> , 2010 , 143, 2462-2467	6.2	62
376	Prey-size plastics are invading larval fish nurseries. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 24143-24149	11.5	61
375	Accelerated losses of protected forests from gold mining in the Peruvian Amazon. <i>Environmental Research Letters</i> , 2016 , 12, 094004	6.2	60
374	Environmental and community controls on plant canopy chemistry in a Mediterranean-type ecosystem. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 6895-900	11.5	59
373	Regional aboveground live carbon losses due to drought-induced tree dieback in piñon-juniper ecosystems. <i>Remote Sensing of Environment</i> , 2010 , 114, 1471-1479	13.2	59
372	Convergent elevation trends in canopy chemical traits of tropical forests. <i>Global Change Biology</i> , 2016 , 22, 2216-27	11.4	59
371	Ecosystem-scale effects of megafauna in African savannas. <i>Ecography</i> , 2016 , 39, 240-252	6.5	58
370	Climate shapes and shifts functional biodiversity in forests worldwide. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 587-592	11.5	58
369	Pasture degradation in the central Amazon: linking changes in carbon and nutrient cycling with remote sensing. <i>Global Change Biology</i> , 2004 , 10, 844-862	11.4	57
368	Mapped aboveground carbon stocks to advance forest conservation and recovery in Malaysian Borneo. <i>Biological Conservation</i> , 2018 , 217, 289-310	6.2	57

367	Climatic/edaphic controls on soil carbon/nitrogen response to shrub encroachment in desert grassland 2007 , 17, 1911-28		56
366	Uncovering Ecological Patterns with Convolutional Neural Networks. <i>Trends in Ecology and Evolution</i> , 2019 , 34, 734-745	10.9	55
365	Scaling PAR absorption from the leaf to landscape level in spatially heterogeneous ecosystems. <i>Ecological Modelling</i> , 1997 , 103, 81-97	3	53
364	Hydrological networks and associated topographic variation as templates for the spatial organization of tropical forest vegetation. <i>PLoS ONE</i> , 2013 , 8, e76296	3.7	53
363	Topo-edaphic controls over woody plant biomass in South African savannas. <i>Biogeosciences</i> , 2012 , 9, 1809-1821	4.6	52
362	Hyperspectral Time Series Analysis of Native and Invasive Species in Hawaiian Rainforests. <i>Remote Sensing</i> , 2012 , 4, 2510-2529	5	52
361	Rainfall partitioning and cloud water interception in native forest and invaded forest in Hawai'i Volcanoes National Park. <i>Hydrological Processes</i> , 2011 , 25, 448-464	3.3	52
360	. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2013 , 6, 351-359	4.7	51
359	Computer and remote-sensing infrastructure to enhance large-scale testing of individual-based forest models. <i>Frontiers in Ecology and the Environment</i> , 2015 , 13, 503-511	5.5	51
358	Effects of an African grass invasion on Hawaiian shrubland nitrogen biogeochemistry. <i>Plant and Soil</i> , 1996 , 186, 205-211	4.2	51
357	Tree Species Abundance Predictions in a Tropical Agricultural Landscape with a Supervised Classification Model and Imbalanced Data. <i>Remote Sensing</i> , 2016 , 8, 161	5	51
356	Motivating residents to combat invasive species on private lands: social norms and community reciprocity. <i>Ecology and Society</i> , 2016 , 21,	4.1	50
355	An examination of the potential efficacy of high-intensity fires for reversing woody encroachment in savannas. <i>Journal of Applied Ecology</i> , 2016 , 53, 1623-1633	5.8	50
354	Production of leaf wax n-alkanes across a tropical forest elevation transect. <i>Organic Geochemistry</i> , 2016 , 100, 89-100	3.1	49
353	Landscape-scale variation in plant community composition of an African savanna from airborne species mapping 2014 , 24, 84-93		49
352	What mediates tree mortality during drought in the southern Sierra Nevada?. <i>Ecological Applications</i> , 2017 , 27, 2443-2457	4.9	49
351	Long-term carbon loss and recovery following selective logging in Amazon forests. <i>Global Biogeochemical Cycles</i> , 2010 , 24, n/a-n/a	5.9	49
350	A Comparison of Signal Deconvolution Algorithms Based on Small-Footprint LiDAR Waveform Simulation. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2011 , 49, 2402-2414	8.1	49

349	Mapping burn severity and burning efficiency in California using simulation models and Landsat imagery. <i>Remote Sensing of Environment</i> , 2010 , 114, 1535-1545	13.2	49
348	Selective logging changes forest phenology in the Brazilian Amazon: Evidence from MODIS image time series analysis. <i>Remote Sensing of Environment</i> , 2009 , 113, 2431-2440	13.2	48
347	Cropland Area and Net Primary Production Computed from 30 Years of USDA Agricultural Harvest Data. <i>Earth Interactions</i> , 2004 , 8, 1-20	1.5	48
346	Soil, climate, and management impacts on regional wheat productivity in Mexico from remote sensing. <i>Agricultural and Forest Meteorology</i> , 2002 , 114, 31-43	5.8	48
345	Tropical soil nutrient distributions determined by biotic and hillslope processes. <i>Biogeochemistry</i> , 2016 , 127, 273-289	3.8	48
344	Human and environmental controls over aboveground carbon storage in Madagascar. <i>Carbon Balance and Management</i> , 2012 , 7, 2	3.6	47
343	Impact of communal land use and conservation on woody vegetation structure in the Lowveld savannas of South Africa. <i>Forest Ecology and Management</i> , 2011 , 261, 19-29	3.9	47
342	Ecosystem structure along bioclimatic gradients in Hawai'i from imaging spectroscopy. <i>Remote Sensing of Environment</i> , 2005 , 96, 497-508	13.2	47
341	Organismic-Scale Remote Sensing of Canopy Foliar Traits in Lowland Tropical Forests. <i>Remote Sensing</i> , 2016 , 8, 87	5	47
340	Savannah woody structure modelling and mapping using multi-frequency (X-, C- and L-band) Synthetic Aperture Radar data. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2015 , 105, 234-250	11.8	46
339	Adaptive bathymetry estimation for shallow coastal waters using Planet Dove satellites. <i>Remote Sensing of Environment</i> , 2019 , 232, 111302	13.2	46
338	Estimating Vegetation Beta Diversity from Airborne Imaging Spectroscopy and Unsupervised Clustering. <i>Remote Sensing</i> , 2013 , 5, 2057-2071	5	46
337	Vegetation-Climate Interactions among Native and Invasive Species in Hawaiian Rainforest. <i>Ecosystems</i> , 2006 , 9, 1106-1117	3.9	46
336	Tree species mapping in tropical forests using multi-temporal imaging spectroscopy: Wavelength adaptive spectral mixture analysis. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2014 , 31, 57-66	7.3	45
335	Scale dependence of biophysical structure in deforested areas bordering the Tapaj� National Forest, Central Amazon. <i>Remote Sensing of Environment</i> , 2003 , 87, 507-520	13.2	45
334	Effects of Vegetation Structure on the Location of Lion Kill Sites in African Thicket. <i>PLoS ONE</i> , 2016 , 11, e0149098	3.7	45
333	Effects of grazing intensity on soil carbon stocks following deforestation of a Hawaiian dry tropical forest. <i>Global Change Biology</i> , 2006 , 12, 1761-1772	11.4	44
332	EFFECTS OF WOODY VEGETATION ENCROACHMENT ON SOIL NITROGEN OXIDE EMISSIONS IN A TEMPERATE SAVANNA 2003 , 13, 897-910		44

331	Object-Based Time-Constrained Dynamic Time Warping Classification of Crops Using Sentinel-2. <i>Remote Sensing</i> , 2019 , 11, 1257	5	43
330	Spatial variability in tropical forest leaf area density from multireturn lidar and modeling. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2015 , 120, 294-309	3-7	43
329	Agricultural potential and actualized development in HawaiĪ an airborne LiDAR survey of the leeward Kohala field system (HawaiĪIsland). <i>Journal of Archaeological Science</i> , 2011 , 38, 3605-3619	2-9	43
328	Multiscale analysis of tree cover and aboveground carbon stocks in pinyon-juniper woodlands 2009 , 19, 668-81		43
327	Forest leaf area density profiles from the quantitative fusion of radar and hyperspectral data. <i>Journal of Geophysical Research</i> , 2002 , 107, ACL 7-1-ACL 7-13		43
326	Movement patterns of three arboreal primates in a Neotropical moist forest explained by LiDAR-estimated canopy structure. <i>Landscape Ecology</i> , 2016 , 31, 1849-1862	4-3	43
325	Monitoring tropical forest carbon stocks and emissions using Planet satellite data. <i>Scientific Reports</i> , 2019 , 9, 17831	4-9	43
324	Toward structural assessment of semi-arid African savannahs and woodlands: The potential of multitemporal polarimetric RADARSAT-2 fine beam images. <i>Remote Sensing of Environment</i> , 2013 , 138, 215-231	13-2	42
323	Improving pantropical forest carbon maps with airborne LiDAR sampling. <i>Carbon Management</i> , 2013 , 4, 591-600	3-3	42
322	Shaping post-orogenic landscapes by climate and chemical weathering. <i>Geology</i> , 2013 , 41, 1171-1174	5	42
321	Spatial partitioning of biomass and diversity in a lowland Bolivian forest: Linking field and remote sensing measurements. <i>Forest Ecology and Management</i> , 2008 , 255, 2602-2616	3-9	42
320	Hyperspectral Remote Sensing of Canopy Chemistry, Physiology, and Biodiversity in Tropical Rainforests 2008 , 261-296		42
319	Forest biomass retrieval approaches from earth observation in different biomes. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2019 , 77, 53-68	7-3	42
318	Land Use Impacts on Coral Reef Health: A Ridge-to-Reef Perspective. <i>Frontiers in Marine Science</i> , 2019 , 6,	4-5	41
317	Harvesting tree biomass at the stand level to assess the accuracy of field and airborne biomass estimation in savannas 2013 , 23, 1170-84		41
316	Leaf Chemical and Optical Properties of <i>Metrosideros polymorpha</i> Across Environmental Gradients in Hawaii. <i>Biotropica</i> , 2009 , 41, 292-301	2-3	41
315	Painting the world REDD: addressing scientific barriers to monitoring emissions from tropical forests. <i>Environmental Research Letters</i> , 2011 , 6, 021002	6-2	41
314	Changes in Vegetation Structure after Long-term Grazing in Pinyon-Juniper Ecosystems: Integrating Imaging Spectroscopy and Field Studies. <i>Ecosystems</i> , 2003 , 6, 368-383	3-9	41

313	Sustainable Management of Tropical Forests Can Reduce Carbon Emissions and Stabilize Timber Production. <i>Frontiers in Environmental Science</i> , 2016 , 4,	4.8	41
312	An Approach for Foliar Trait Retrieval from Airborne Imaging Spectroscopy of Tropical Forests. <i>Remote Sensing</i> , 2018 , 10, 199	5	40
311	Remotely sensed predictors of conifer tree mortality during severe drought. <i>Environmental Research Letters</i> , 2017 , 12, 115013	6.2	40
310	Scale dependence of canopy trait distributions along a tropical forest elevation gradient. <i>New Phytologist</i> , 2017 , 214, 973-988	9.8	40
309	Variable effects of termite mounds on African savanna grass communities across a rainfall gradient. <i>Journal of Vegetation Science</i> , 2014 , 25, 1405-1416	3.1	40
308	Unsustainable fuelwood extraction from South African savannas. <i>Environmental Research Letters</i> , 2013 , 8, 014007	6.2	40
307	Termite mounds alter the spatial distribution of African savanna tree species. <i>Journal of Biogeography</i> , 2016 , 43, 301-313	4.1	40
306	Nutrient acquisition, soil phosphorus partitioning and competition among trees in a lowland tropical rain forest. <i>New Phytologist</i> , 2017 , 214, 1506-1517	9.8	39
305	Assessment of the mapping of fractional woody cover in southern African savannas using multi-temporal and polarimetric ALOS PALSAR L-band images. <i>Remote Sensing of Environment</i> , 2015 , 166, 138-153	13.2	39
304	On the relationship between fire regime and vegetation structure in the tropics. <i>New Phytologist</i> , 2018 , 218, 153-166	9.8	39
303	On the use of binary partition trees for the tree crown segmentation of tropical rainforest hyperspectral images. <i>Remote Sensing of Environment</i> , 2015 , 159, 318-331	13.2	39
302	Landscape-level variation in forest structure and biogeochemistry across a substrate age gradient in Hawaii. <i>Ecology</i> , 2009 , 90, 3074-86	4.6	39
301	The rate and spatial pattern of treefall in a savanna landscape. <i>Biological Conservation</i> , 2013 , 157, 121-127	7.2	38
300	Boosted carbon emissions from Amazon deforestation. <i>Geophysical Research Letters</i> , 2009 , 36,	4.9	38
299	. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 1997 , 35, 868-878	8.1	38
298	Substrate, climate, and land use controls over soil N dynamics and N-oxide emissions in Borneo. <i>Biogeochemistry</i> , 2004 , 70, 27-58	3.8	38
297	Unexpected changes in soil phosphorus dynamics along pasture chronosequences in the humid tropics. <i>Journal of Geophysical Research</i> , 2002 , 107, LBA 34-1		38
296	Storm-triggered landslides in the Peruvian Andes and implications for topography, carbon cycles, and biodiversity. <i>Earth Surface Dynamics</i> , 2016 , 4, 47-70	3.8	38

295	Coral reef atoll assessment in the South China Sea using Planet Dove satellites. <i>Remote Sensing in Ecology and Conservation</i> , 2017 , 3, 57-65	5.3	37
294	Semi-Supervised Methods to Identify Individual Crowns of Lowland Tropical Canopy Species Using Imaging Spectroscopy and LiDAR. <i>Remote Sensing</i> , 2012 , 4, 2457-2476	5	37
293	. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2010 ,	8.1	37
292	Landscape-Scale Controls on Aboveground Forest Carbon Stocks on the Osa Peninsula, Costa Rica. <i>PLoS ONE</i> , 2015 , 10, e0126748	3.7	37
291	Altitude effect on leaf wax carbon isotopic composition in humid tropical forests. <i>Geochimica Et Cosmochimica Acta</i> , 2017 , 206, 1-17	5.5	36
290	Correlating Stem Biomechanical Properties of Hawaiian Canopy Trees with Hurricane Wind Damage1. <i>Biotropica</i> , 1997 , 29, 145-150	2.3	36
289	Timber production in selectively logged tropical forests in South America. <i>Frontiers in Ecology and the Environment</i> , 2007 , 5, 213-216	5.5	36
288	IKONOS imagery for the Large Scale Biosphere-Atmosphere Experiment in Amazonia (LBA). <i>Remote Sensing of Environment</i> , 2003 , 88, 111-127	13.2	36
287	Grazing gradient detection with airborne imaging spectroscopy on a semi-arid rangeland. <i>Journal of Arid Environments</i> , 2003 , 55, 391-404	2.5	36
286	Variation in leaf wettability traits along a tropical montane elevation gradient. <i>New Phytologist</i> , 2017 , 214, 989-1001	9.8	35
285	Ecosystem Structure throughout the Brazilian Amazon from Landsat Observations and Automated Spectral Unmixing. <i>Earth Interactions</i> , 2005 , 9, 1-31	1.5	35
284	View angle effects on canopy reflectance and spectral mixture analysis of coniferous forests using AVIRIS. <i>International Journal of Remote Sensing</i> , 2002 , 23, 2247-2262	3.1	35
283	Forest structure and pattern vary by climate and landform across active-fire landscapes in the montane Sierra Nevada. <i>Forest Ecology and Management</i> , 2019 , 437, 70-86	3.9	34
282	Carbon declines along tropical forest edges correspond to heterogeneous effects on canopy structure and function. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 7863-7870	11.5	34
281	Leaf reflectance spectra capture the evolutionary history of seed plants. <i>New Phytologist</i> , 2020 , 228, 485-493	9.8	34
280	Approaches to classifying and restoring degraded tropical forests for the anticipated REDD+ climate change mitigation mechanism. <i>IForest</i> , 2011 , 4, 1-6	1.3	34
279	Structure-based forest biomass from fusion of radar and hyperspectral observations. <i>Geophysical Research Letters</i> , 2003 , 30,	4.9	34
278	Substrate age and precipitation effects on Hawaiian forest canopies from spaceborne imaging spectroscopy. <i>Remote Sensing of Environment</i> , 2005 , 98, 457-467	13.2	34

277	HETEROGENEITY OF SAVANNA CANOPY STRUCTURE AND FUNCTION FROM IMAGING SPECTROMETRY AND INVERSE MODELING 1998 , 8, 1022-1036		34
276	Estimating vegetation structural effects on carbon uptake using satellite data fusion and inverse modeling. <i>Journal of Geophysical Research</i> , 1998 , 103, 28839-28853		34
275	Scaling Up Coral Reef Restoration Using Remote Sensing Technology. <i>Frontiers in Marine Science</i> , 2019 , 6,	4.5	33
274	These are the days of lasers in the jungle. <i>Carbon Balance and Management</i> , 2014 , 9, 7	3.6	33
273	Airborne mapping of benthic reflectance spectra with Bayesian linear mixtures. <i>Remote Sensing of Environment</i> , 2017 , 200, 18-30	13.2	33
272	Remote sensing for restoration planning: how the big picture can inform stakeholders. <i>Restoration Ecology</i> , 2017 , 25, S147-S154	3.1	33
271	Single-Species Detection With Airborne Imaging Spectroscopy Data: A Comparison of Support Vector Techniques. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2015 , 8, 2501-2512	4.7	32
270	Ecosystem carbon storage does not vary with mean annual temperature in Hawaiian tropical montane wet forests. <i>Global Change Biology</i> , 2014 , 20, 2927-37	11.4	32
269	Soil carbon storage responses to expanding pinyon-juniper populations in southern Utah 2009 , 19, 1405-16		32
268	Influence of Livestock Grazing and Climate on Pinyon Pine (<i>Pinus edulis</i>) Dynamics. <i>Rangeland Ecology and Management</i> , 2009 , 62, 531-539	2.2	32
267	Relative importance of soil and climate variability for nitrogen management in irrigated wheat. <i>Field Crops Research</i> , 2004 , 87, 155-165	5.5	32
266	Hyperspectral and LiDAR remote sensing of fire fuels in Hawaii Volcanoes National Park 2008 , 18, 613-23		31
265	Biological invasion alters regional nitrogen-oxide emissions from tropical rainforests. <i>Global Change Biology</i> , 2007 , 13, 2143-2160	11.4	31
264	Termite mounds differ in their importance for herbivores across savanna types, seasons and spatial scales. <i>Oikos</i> , 2016 , 125, 726-734	4	31
263	Use of Landsat and SRTM Data to Detect Broad-Scale Biodiversity Patterns in Northwestern Amazonia. <i>Remote Sensing</i> , 2012 , 4, 2401-2418	5	30
262	Land-Cover and Surface Water Change Drive Large Albedo Increases in South America*. <i>Earth Interactions</i> , 2011 , 15, 1-16	1.5	30
261	Subpixel canopy cover estimation of coniferous forests in Oregon using SWIR imaging spectrometry. <i>Journal of Geophysical Research</i> , 2001 , 106, 5151-5160		30
260	Rapid forest carbon assessments of oceanic islands: a case study of the Hawaiian archipelago. <i>Carbon Balance and Management</i> , 2016 , 11, 1	3.6	30

259	Assessing trait-based scaling theory in tropical forests spanning a broad temperature gradient. <i>Global Ecology and Biogeography</i> , 2017 , 26, 1357-1373	6.1	29
258	Estimating aboveground carbon density and its uncertainty in Borneo's structurally complex tropical forests using airborne laser scanning. <i>Biogeosciences</i> , 2018 , 15, 3811-3830	4.6	29
257	Improving Remote Species Identification through Efficient Training Data Collection. <i>Remote Sensing</i> , 2014 , 6, 2682-2698	5	29
256	Mapping habitat suitability for at-risk plant species and its implications for restoration and reintroduction 2014 , 24, 385-95		29
255	Satellite Monitoring of Vegetation Phenology and Fire Fuel Conditions in Hawaiian Drylands. <i>Earth Interactions</i> , 2005 , 9, 1-21	1.5	29
254	Spectrometry of pasture condition and biogeochemistry in the central Amazon. <i>Geophysical Research Letters</i> , 1999 , 26, 2769-2772	4.9	29
253	Informing trait-based ecology by assessing remotely sensed functional diversity across a broad tropical temperature gradient. <i>Science Advances</i> , 2019 , 5, eaaw8114	14.3	29
252	Trade-offs in seedling growth and survival within and across tropical forest microhabitats. <i>Ecology and Evolution</i> , 2014 , 4, 3755-67	2.8	28
251	The magnitude and variability of soil-surface CO ₂ efflux increase with mean annual temperature in Hawaiian tropical montane wet forests. <i>Soil Biology and Biochemistry</i> , 2011 , 43, 2315-2323	7.5	28
250	Phylogenetic Structure of Foliar Spectral Traits in Tropical Forest Canopies. <i>Remote Sensing</i> , 2016 , 8, 196	5	28
249	Mapping the world's coral reefs using a global multiscale earth observation framework. <i>Remote Sensing in Ecology and Conservation</i> , 2020 , 6, 557-568	5.3	28
248	Prolonged tropical forest degradation due to compounding disturbances: Implications for CO and H ₂ O fluxes. <i>Global Change Biology</i> , 2019 , 25, 2855-2868	11.4	27
247	Demographic legacies of fire history in an African savanna. <i>Functional Ecology</i> , 2015 , 29, 131-139	5.6	27
246	Liana canopy cover mapped throughout a tropical forest with high-fidelity imaging spectroscopy. <i>Remote Sensing of Environment</i> , 2016 , 176, 98-106	13.2	27
245	Building and testing models of long-term agricultural intensification and population dynamics: A case study from the Leeward Kohala Field System, Hawaii. <i>Ecological Modelling</i> , 2012 , 227, 18-28	3	27
244	Surface Soil Changes Following Selective Logging in an Eastern Amazon Forest. <i>Earth Interactions</i> , 2005 , 9, 1-19	1.5	27
243	The EOS Prototype Validation Exercise (PROVE) at Jornada. <i>Remote Sensing of Environment</i> , 2000 , 74, 1-12	13.2	27
242	Object-Based Mapping of Coral Reef Habitats Using Planet Dove Satellites. <i>Remote Sensing</i> , 2019 , 11, 1445	5	26

241	Performance of one-class classifiers for invasive species mapping using airborne imaging spectroscopy. <i>Ecological Informatics</i> , 2017 , 37, 66-76	4.2	26
240	Scale-dependence of aboveground carbon accumulation in secondary forests of Panama: A test of the intermediate peak hypothesis. <i>Forest Ecology and Management</i> , 2012 , 276, 62-70	3.9	26
239	Recovery of forest structure and spectral properties after selective logging in lowland Bolivia 2006 , 16, 1148-63		26
238	L-band Synthetic Aperture Radar imagery performs better than optical datasets at retrieving woody fractional cover in deciduous, dry savannahs. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2016 , 52, 54-64	7.3	25
237	Geography of forest disturbance. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 3711-2	11.5	25
236	Dependence of Forest Structure and Dynamics on Substrate Age and Ecosystem Development. <i>Ecosystems</i> , 2011 , 14, 1156-1167	3.9	25
235	Contributions of multi-view angle remote sensing to land-surface and biogeochemical research. <i>International Journal of Remote Sensing</i> , 2000 , 18, 137-162		25
234	Active restoration accelerates the carbon recovery of human-modified tropical forests. <i>Science</i> , 2020 , 369, 838-841	33.3	25
233	Remote sensing of forest die-off in the Anthropocene: From plant ecophysiology to canopy structure. <i>Remote Sensing of Environment</i> , 2019 , 231, 111233	13.2	24
232	Environmental drivers of tree community turnover in western Amazonian forests. <i>Ecography</i> , 2016 , 39, 1089-1099	6.5	24
231	A chemical-evolutionary basis for remote sensing of tropical forest diversity 343-358		24
230	Canopy structure drives orangutan habitat selection in disturbed Bornean forests. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 8307-8312	11.5	24
229	Fusing small-footprint waveform LiDAR and hyperspectral data for canopy-level species classification and herbaceous biomass modeling in savanna ecosystems. <i>Canadian Journal of Remote Sensing</i> , 2011 , 37, 653-665	1.8	24
228	Human-modified landscapes: patterns of fine-scale woody vegetation structure in communal savannah rangelands. <i>Environmental Conservation</i> , 2012 , 39, 72-82	3.3	24
227	Comparison of Earth Observing-1 ALI and Landsat ETM+ for crop identification and yield prediction in Mexico. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2003 , 41, 1277-1282	8.1	24
226	Remote measurement of canopy water content in giant sequoias (<i>Sequoiadendron giganteum</i>) during drought. <i>Forest Ecology and Management</i> , 2018 , 419-420, 279-290	3.9	24
225	Climate, Topography, and Canopy Chemistry Exert Hierarchical Control Over Soil N Cycling in a Neotropical Lowland Forest. <i>Ecosystems</i> , 2017 , 20, 1089-1103	3.9	23
224	Linking vegetation patterns to environmental gradients and human impacts in a mediterranean-type island ecosystem. <i>Landscape Ecology</i> , 2014 , 29, 1571-1585	4.3	23

223	Hyperspectral shape-based unmixing to improve intra- and interclass variability for forest and agro-ecosystem monitoring. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2012 , 74, 163-174	11.8	23
222	Environmental filtering and land-use history drive patterns in biomass accumulation in a mediterranean-type landscape 2012 , 22, 104-18		23
221	Remote analysis of biological invasion and the impact of enemy release 2011 , 21, 2094-104		23
220	Land use effects on atmospheric ¹³ C imply a sizable terrestrial CO ₂ sink in tropical latitudes. <i>Geophysical Research Letters</i> , 2002 , 29, 68-1-68-4	4.9	23
219	Biomass Increases Go under Cover: Woody Vegetation Dynamics in South African Rangelands. <i>PLoS ONE</i> , 2015 , 10, e0127093	3.7	23
218	Determining Subcanopy <i>Psidium cattleianum</i> Invasion in Hawaiian Forests Using Imaging Spectroscopy. <i>Remote Sensing</i> , 2016 , 8, 33	5	23
217	Branchfall dominates annual carbon flux across lowland Amazonian forests. <i>Environmental Research Letters</i> , 2016 , 11, 094027	6.2	23
216	An Approach for High-Resolution Mapping of Hawaiian <i>Metrosideros</i> Forest Mortality Using Laser-Guided Imaging Spectroscopy. <i>Remote Sensing</i> , 2018 , 10, 502	5	23
215	Spectroscopic Remote Sensing of Non-Structural Carbohydrates in Forest Canopies. <i>Remote Sensing</i> , 2015 , 7, 3526-3547	5	22
214	Roads increase woody cover under varying geological, rainfall and fire regimes in African savanna. <i>Journal of Arid Environments</i> , 2012 , 80, 74-80	2.5	22
213	A tree-based approach to biomass estimation from remote sensing data in a tropical agricultural landscape. <i>Remote Sensing of Environment</i> , 2018 , 218, 32-43	13.2	22
212	Erosion of organic carbon from the Andes and its effects on ecosystem carbon dioxide balance. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2017 , 122, 449-469	3.7	21
211	Integrating LiDAR-derived tree height and Landsat satellite reflectance to estimate forest regrowth in a tropical agricultural landscape. <i>Remote Sensing in Ecology and Conservation</i> , 2016 , 2, 190-203	5.3	21
210	A Spectral Mapping Signature for the Rapid Ohia Death (ROD) Pathogen in Hawaiian Forests. <i>Remote Sensing</i> , 2018 , 10, 404	5	21
209	Winners and losers in the competition for space in tropical forest canopies. <i>Ecology Letters</i> , 2014 , 17, 556-62	10	21
208	Predicting trait-environment relationships for venation networks along an Andes-Amazon elevation gradient. <i>Ecology</i> , 2017 , 98, 1239-1255	4.6	20
207	Humans and elephants as treefall drivers in African savannas. <i>Ecography</i> , 2017 , 40, 1274-1284	6.5	20
206	Loss of Nutrients from Terrestrial Ecosystems to Streams and the Atmosphere Following Land Use Change in Amazonia. <i>Geophysical Monograph Series</i> , 2004 , 147-158	1.1	20

205	Organismic Remote Sensing for Tropical Forest Ecology and Conservation ^{1,2} . <i>Annals of the Missouri Botanical Garden</i> , 2015 , 100, 127-140	1.8	19
204	Protected area management priorities crucial for the future of Bornean elephants. <i>Biological Conservation</i> , 2018 , 221, 365-373	6.2	19
203	Environmental controls on canopy foliar nitrogen distributions in a Neotropical lowland forest. <i>Ecological Applications</i> , 2016 , 26, 2449-2462	4.9	19
202	Carbon accumulation in Colorado ponderosa pine stands. <i>Canadian Journal of Forest Research</i> , 2004 , 34, 1283-1295	1.9	19
201	4. Sustainability of Selective Logging of Upland Forests in the Brazilian Amazon 2004 , 41-63		19
200	Examining variation in the leaf mass per area of dominant species across two contrasting tropical gradients in light of community assembly. <i>Ecology and Evolution</i> , 2016 , 6, 5674-89	2.8	18
199	Linking imaging spectroscopy and LiDAR with floristic composition and forest structure in Panama. <i>Remote Sensing of Environment</i> , 2014 , 154, 358-367	13.2	18
198	Multiple dimensions of resource limitation in tropical forests. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 4864-5	11.5	18
197	Centennial impacts of fragmentation on the canopy structure of tropical montane forest 2014 , 24, 1638-50		18
196	Spatial patterns in the effects of fire on savanna vegetation three-dimensional structure 2012 , 22, 2110-21		18
195	The Spatial Distribution and Interannual Variability of Fire in Amazonia. <i>Geophysical Monograph Series</i> , 2009 , 25-42	1.1	18
194	Effects of <i>Morella faya</i> tree invasion on aboveground carbon storage in Hawaii. <i>Biological Invasions</i> , 2010 , 12, 477-494	2.7	18
193	Imaging spectroscopy measures desertification in United States and Argentina. <i>Eos</i> , 2001 , 82, 601-601	1.5	18
192	Prioritizing landscapes for restoration based on spatial patterns of ecosystem controls and plant-plant interactions. <i>Journal of Applied Ecology</i> , 2017 , 54, 1459-1468	5.8	17
191	Landscape evolution and nutrient rejuvenation reflected in Amazon forest canopy chemistry. <i>Ecology Letters</i> , 2018 , 21, 978-988	10	17
190	Carbon storage landscapes of lowland Hawaii: the role of native and invasive species through space and time 2014 , 24, 716-31		17
189	. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2014 , 7, 480-490	4.7	17
188	Structural relationships between form factor, wood density, and biomass in African savanna woodlands. <i>Trees - Structure and Function</i> , 2014 , 28, 91-102	2.6	17

187	. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2012 , 50, 3242-3255	8.1	17
186	An ecosystem model for tropical forest disturbance and selective logging. <i>Journal of Geophysical Research</i> , 2008 , 113, n/a-n/a		17
185	Imaging spectroscopy predicts variable distance decay across contrasting Amazonian tree communities. <i>Journal of Ecology</i> , 2019 , 107, 696-710	6	17
184	Forest Drought Resistance at Large Geographic Scales. <i>Geophysical Research Letters</i> , 2019 , 46, 2752-2760	4.9	16
183	Advancing reference emission levels in subnational and national REDD+ initiatives: a CLASlite approach. <i>Carbon Balance and Management</i> , 2015 , 10, 5	3.6	16
182	Regional-scale drivers of forest structure and function in northwestern Amazonia. <i>PLoS ONE</i> , 2015 , 10, e0119887	3.7	16
181	Mesoscale assessment of changes in tropical tree species richness across a bioclimatic gradient in Panama using airborne imaging spectroscopy. <i>Remote Sensing of Environment</i> , 2015 , 167, 111-120	13.2	16
180	Objective indicators of pasture degradation from spectral mixture analysis of Landsat imagery. <i>Journal of Geophysical Research</i> , 2008 , 113, n/a-n/a		16
179	Regional Estimate of Nitric Oxide Emissions Following Woody Encroachment: Linking Imaging Spectroscopy and Field Studies. <i>Ecosystems</i> , 2005 , 8, 33-47	3.9	16
178	Intermittency of Large Methane Emitters in the Permian Basin. <i>Environmental Science and Technology Letters</i> , 2021 , 8, 567-573	11	16
177	Landscape-scale variation in canopy water content of giant sequoias during drought. <i>Forest Ecology and Management</i> , 2018 , 419-420, 291-304	3.9	16
176	Tropical forest leaves may darken in response to climate change. <i>Nature Ecology and Evolution</i> , 2018 , 2, 1918-1924	12.3	16
175	Spatial patterning among savanna trees in high-resolution, spatially extensive data. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 10681-10685	11.5	15
174	Decoupled dimensions of leaf economic and anti-herbivore defense strategies in a tropical canopy tree community. <i>Oecologia</i> , 2018 , 186, 765-782	2.9	15
173	Microtopographic controls on lowland Amazonian canopy diversity from imaging spectroscopy 2014 , 24, 1297-1310		15
172	Modeling regional variation in net primary production of pinyon-juniper ecosystems. <i>Ecological Modelling</i> , 2012 , 227, 82-92	3	15
171	Equivalent water thickness in savanna ecosystems: MODIS estimates based on ground and EO-1 Hyperion data. <i>International Journal of Remote Sensing</i> , 2011 , 32, 7423-7440	3.1	15
170	Selective Logging and Its Relation to Deforestation. <i>Geophysical Monograph Series</i> , 2009 , 11-23	1.1	15

169	Multiple Scales of Control on the Structure and Spatial Distribution of Woody Vegetation in African Savanna Watersheds. <i>PLoS ONE</i> , 2015 , 10, e0145192	3.7	15
168	Pantropical modelling of canopy functional traits using Sentinel-2 remote sensing data. <i>Remote Sensing of Environment</i> , 2021 , 252, 112122	13.2	15
167	Remotely sensed canopy nitrogen correlates with nitrous oxide emissions in a lowland tropical rainforest. <i>Ecology</i> , 2018 , 99, 2080-2089	4.6	15
166	Taking the pulse of Earth's tropical forests using networks of highly distributed plots. <i>Biological Conservation</i> , 2021 , 260, 108849	6.2	15
165	Aboveground carbon emissions from gold mining in the Peruvian Amazon. <i>Environmental Research Letters</i> , 2020 , 15, 014006	6.2	14
164	Exploring dispersal barriers using landscape genetic resistance modelling in scarlet macaws of the Peruvian Amazon. <i>Landscape Ecology</i> , 2017 , 32, 445-456	4.3	14
163	Seasonal Variation in Spectral Signatures of Five Genera of Rainforest Trees. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2013 , 6, 339-350	4.7	14
162	The Why, What and How of monitoring for conservation 2013 , 327-343		14
161	Per-Pixel Analysis of Forest Structure 2003 , 209-254		14
160	High-resolution Mapping of Forest Carbon Stocks in the Colombian Amazon		14
159	3D Imaging Insights into Forests and Coral Reefs. <i>Trends in Ecology and Evolution</i> , 2020 , 35, 6-9	10.9	14
158	A global coral reef probability map generated using convolutional neural networks. <i>Coral Reefs</i> , 2020 , 39, 1805-1815	4.2	14
157	Hyper-Temporal C-Band SAR for Baseline Woody Structural Assessments in Deciduous Savannas. <i>Remote Sensing</i> , 2016 , 8, 661	5	14
156	Effect of microsite quality and species composition on tree growth: A semi-empirical modeling approach. <i>Forest Ecology and Management</i> , 2019 , 432, 534-545	3.9	14
155	Dominant tree species drive beta diversity patterns in western Amazonia. <i>Ecology</i> , 2019 , 100, e02636	4.6	13
154	Limited spatial response to direct predation risk by African herbivores following predator reintroduction. <i>Ecology and Evolution</i> , 2016 , 6, 5728-48	2.8	13
153	Satellites and psychology for improved forest monitoring. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 567-8	11.5	13
152	Recovery of logged forest fragments in a human-modified tropical landscape during the 2015-16 El Niño. <i>Nature Communications</i> , 2021 , 12, 1526	17.4	13

151	Automated Global Shallow Water Bathymetry Mapping Using Google Earth Engine. <i>Remote Sensing</i> , 2021 , 13, 1469	5	13
150	A hyperspectral image can predict tropical tree growth rates in single-species stands. <i>Ecological Applications</i> , 2016 , 26, 2367-2373	4.9	13
149	Individual-Based Modeling of Amazon Forests Suggests That Climate Controls Productivity While Traits Control Demography. <i>Frontiers in Earth Science</i> , 2019 , 7,	3.5	12
148	Elephants limit aboveground carbon gains in African savannas. <i>Global Change Biology</i> , 2019 , 25, 1368	11.4	12
147	Challenges in Estimating Tropical Forest Canopy Height from Planet Dove Imagery. <i>Remote Sensing</i> , 2020 , 12, 1160	5	12
146	Leaf- and crown-level adjustments help giant sequoias maintain favorable water status during severe drought. <i>Forest Ecology and Management</i> , 2018 , 419-420, 257-267	3.9	12
145	Hemiparasite--host plant interactions in a fragmented landscape assessed via imaging spectroscopy and LiDAR 2016 , 26, 55-66		12
144	Trade-offs in Land-Use Decisions: Towards a Framework for Assessing Multiple Ecosystem Responses to Land-Use Change. <i>Geophysical Monograph Series</i> , 2004 , 1-9	1.1	12
143	Response to Comment on "Climate and Management Contributions to Recent Trends in U.S. Agricultural Yields". <i>Science</i> , 2003 , 300, 1505c-1505	33.3	12
142	Megafaunal effects on vegetation structure throughout a densely wooded African landscape 2018 , 28, 398-408		12
141	The cost and distribution of forest conservation for national emissions reductions. <i>Global Environmental Change</i> , 2018 , 53, 39-51	10.1	12
140	Estimating aboveground carbon density across forest landscapes of Hawaii: Combining FIA plot-derived estimates and airborne LiDAR. <i>Forest Ecology and Management</i> , 2018 , 424, 323-337	3.9	12
139	Combining behavioural and LiDAR data to reveal relationships between canopy structure and orangutan nest site selection in disturbed forests. <i>Biological Conservation</i> , 2019 , 232, 97-107	6.2	11
138	Scale-dependence of environmental and socioeconomic drivers of albizia invasion in Hawaii. <i>Landscape and Urban Planning</i> , 2018 , 169, 70-80	7.7	11
137	Spatially explicit analysis of field inventories for national forest carbon monitoring. <i>Carbon Balance and Management</i> , 2016 , 11, 9	3.6	11
136	Coexistence and environmental filtering of species-specific biomass in an African savanna. <i>Ecology</i> , 2014 , 95, 1579-90	4.6	11
135	Savanna woody vegetation classification - now in 3-D. <i>Applied Vegetation Science</i> , 2014 , 17, 172-184	3.3	11
134	Allometric constraints on sources of variability in multi-angle reflectance measurements. <i>Remote Sensing of Environment</i> , 2010 , 114, 1205-1219	13.2	11

133	The Sensitivity of Multi-spectral Satellite Sensors to Benthic Habitat Change. <i>Remote Sensing</i> , 2020 , 12, 532	5	11
132	Topographic distributions of emergent trees in tropical forests of the Osa Peninsula, Costa Rica. <i>Ecography</i> , 2017 , 40, 829-839	6.5	10
131	Can Leaf Spectroscopy Predict Leaf and Forest Traits Along a Peruvian Tropical Forest Elevation Gradient?. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2017 , 122, 2952-2965	3.7	10
130	Spatially-Explicit Testing of a General Aboveground Carbon Density Estimation Model in a Western Amazonian Forest Using Airborne LiDAR. <i>Remote Sensing</i> , 2016 , 8, 9	5	10
129	High-Resolution Reef Bathymetry and Coral Habitat Complexity from Airborne Imaging Spectroscopy. <i>Remote Sensing</i> , 2020 , 12, 310	5	10
128	Underproductive agriculture aids connectivity in tropical forests. <i>Forest Ecology and Management</i> , 2017 , 401, 159-165	3.9	10
127	Long-term fragmentation effects on the distribution and dynamics of canopy gaps in a tropical montane forest. <i>Ecosphere</i> , 2015 , 6, art271	3.1	10
126	Linking rainforest ecophysiology and microclimate through fusion of airborne LiDAR and hyperspectral imagery. <i>Ecosphere</i> , 2014 , 5, art57	3.1	10
125	. <i>Aerospace Conference Proceedings IEEE</i> , 2008 ,		10
124	Beyond Refugia: New Insights on Quaternary Climate Variation and the Evolution of Biotic Diversity in Tropical South America. <i>Fascinating Life Sciences</i> , 2020 , 51-70	1.1	10
123	Covariance of Sun and Shade Leaf Traits Along a Tropical Forest Elevation Gradient. <i>Frontiers in Plant Science</i> , 2019 , 10, 1810	6.2	10
122	Conservation assessment of the Peruvian Andes and Amazon based on mapped forest functional diversity. <i>Biological Conservation</i> , 2017 , 210, 80-88	6.2	9
121	Resistance of mound-building termites to anthropogenic land-use change. <i>Environmental Research Letters</i> , 2020 , 15, 094038	6.2	9
120	Leaf litter inputs reinforce islands of nitrogen fertility in a lowland tropical forest. <i>Biogeochemistry</i> , 2020 , 147, 293-306	3.8	9
119	Overlapping land allocations reduce deforestation in Peru. <i>Land Use Policy</i> , 2018 , 79, 174-178	5.6	9
118	Management approaches of conservation areas: Differences in woody vegetation structure in a private and a national reserve. <i>South African Journal of Botany</i> , 2014 , 90, 146-152	2.9	9
117	Land-use choices: balancing human needs and ecosystem function 2004 , 2, 249		9
116	Topo-edaphic controls over woody plant biomass in South African savannas		9

115	Large-scale mapping of live corals to guide reef conservation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 33711-33718	11.5	9
114	Natural and anthropogenic drivers of Bornean elephant movement strategies. <i>Global Ecology and Conservation</i> , 2020 , 22, e00906	2.8	9
113	Sea surface temperature in coral reef restoration outcomes. <i>Environmental Research Letters</i> , 2020 , 15, 074045	6.2	9
112	Structural and defensive roles of angiosperm leaf venation network reticulation across an Andes-Amazon elevation gradient. <i>Journal of Ecology</i> , 2018 , 106, 1683-1699	6	8
111	Leaf to landscape responses of giant sequoia to hotter drought: An introduction and synthesis for the special section. <i>Forest Ecology and Management</i> , 2018 , 419-420, 249-256	3.9	8
110	Biotic and Abiotic Controls Over Canopy Function and Structure in Humid Hawaiian Forests. <i>Ecosystems</i> , 2018 , 21, 331-348	3.9	8
109	Landscape-scale GPP and carbon density inform patterns and impacts of an invasive tree across wet forests of Hawaii. <i>Ecological Applications</i> , 2017 , 27, 403-415	4.9	8
108	Integrating stand and soil properties to understand foliar nutrient dynamics during forest succession following slash-and-burn agriculture in the Bolivian Amazon. <i>PLoS ONE</i> , 2014 , 9, e86042	3.7	8
107	Variation in photosynthetic and nonphotosynthetic vegetation along edaphic and compositional gradients in northwestern Amazonia. <i>Biogeosciences</i> , 2014 , 11, 3505-3513	4.6	8
106	LiDAR: providing structure. <i>Frontiers in Ecology and the Environment</i> , 2011 , 9, 261-262	5.5	8
105	A Glimpse Out the Window: Landscapes, Livelihoods, and the Environment. <i>Environment</i> , 2006 , 48, 22-36	2.8	8
104	Nitrogen cycling in tropical and temperate savannas 2006 , 209-237		8
103	Coherence among the Northern Hemisphere land, cryosphere, and ocean responses to natural variability and anthropogenic forcing during the satellite era. <i>Earth System Dynamics</i> , 2016 , 7, 717-734	4.8	8
102	Seasonal variation in the relative dominance of herbivore guilds in an African savanna. <i>Ecology</i> , 2016 , 97, 1618-24	4.6	8
101	Ecosystems and Problems of Measurement at Large Spatial Scales 1998 , 346-371		8
100	A Density-Based Approach for Leaf Area Index Assessment in a Complex Forest Environment Using a Terrestrial Laser Scanner. <i>Remote Sensing</i> , 2019 , 11, 1791	5	7
99	Habitat differences do not explain population declines of sable antelope in an African savanna. <i>Journal of Zoology</i> , 2015 , 297, 225-234	2	7
98	PROSPECT+SAIL: 15 Years of Use for Land Surface Characterization 2006 ,		7

97	Combining Hyperspectral Remote Sensing and Physical Modeling for Applications in Land Ecosystems 2006 ,		7
96	Biogeochemistry of Desertification and Woody Encroachment in Grazing Systems. <i>Geophysical Monograph Series</i> , 2004 , 99-116	1.1	7
95	Landscape-scale changes in forest structure and functional traits along an Andes-to-Amazon elevation gradient		7
94	Quantifying Tropical Plant Diversity Requires an Integrated Technological Approach. <i>Trends in Ecology and Evolution</i> , 2020 , 35, 1100-1109	10.9	7
93	Surface slicks are pelagic nurseries for diverse ocean fauna. <i>Scientific Reports</i> , 2021 , 11, 3197	4.9	7
92	Synergistic benefits of conserving land-sea ecosystems. <i>Global Ecology and Conservation</i> , 2021 , 28, e016848	4.8	7
91	Drivers of woody canopy water content responses to drought in a Mediterranean-type ecosystem 2017 , 27, 2220-2233		7
90	Tree foliar chemistry in an African savanna and its relation to life history strategies and environmental filters. <i>PLoS ONE</i> , 2015 , 10, e0124078	3.7	6
89	The Influence of Taxonomy and Environment on Leaf Trait Variation Along Tropical Abiotic Gradients. <i>Frontiers in Forests and Global Change</i> , 2020 , 3,	3.7	6
88	Effects of long-term rainfall decline on the structure and functioning of Hawaiian forests. <i>Environmental Research Letters</i> , 2016 , 12, 094002	6.2	6
87	Twentieth century carbon stock changes related to Piñon-Juniper expansion into a black sagebrush community. <i>Carbon Balance and Management</i> , 2013 , 8, 8	3.6	6
86	Episodic Canopy Structural Transformations and Biological Invasion in a Hawaiian Forest. <i>Frontiers in Plant Science</i> , 2017 , 8, 1256	6.2	6
85	Top-Down Analysis of Forest Structure and Biogeochemistry Across Hawaiian Landscapes. <i>Pacific Science</i> , 2010 , 64, 359-366	0.9	6
84	Binary partition tree as a hyperspectral segmentation tool for tropical rainforests 2012 ,		6
83	Connecting the dots between laser waveforms and herbaceous biomass for assessment of land degradation using small-footprint waveform LiDAR data 2009 ,		6
82	Storm-triggered landslides in the Peruvian Andes and implications for topography, carbon cycles, and biodiversity		6
81	Quantifying Global Power Plant Carbon Dioxide Emissions With Imaging Spectroscopy. <i>AGU Advances</i> , 2021 , 2, e2020AV000350	5.4	6
80	Biodiversity and agriculture in dynamic landscapes: Integrating ground and remotely-sensed baseline surveys. <i>Journal of Environmental Management</i> , 2016 , 177, 9-19	7.9	6

79	Impacts of remotely sensed environmental drivers on coral outplant survival. <i>Restoration Ecology</i> , 2021 , 29,	3.1	6
78	What lies beneath: detecting sub-canopy changes in savanna woodlands using a three-dimensional classification method. <i>Applied Vegetation Science</i> , 2015 , 18, 528-540	3.3	5
77	Polar grid fraction as an estimator of montane tropical forest canopy structure using airborne lidar. <i>International Journal of Remote Sensing</i> , 2013 , 34, 7464-7473	3.1	5
76	Riparian vegetation structure and the hunting behavior of adult estuarine crocodiles. <i>PLoS ONE</i> , 2017 , 12, e0184804	3.7	5
75	Controls over aboveground forest carbon density on Barro Colorado Island, Panama		5
74	Incorporating connectivity into conservation planning for the optimal representation of multiple species and ecosystem services. <i>Conservation Biology</i> , 2020 , 34, 934-942	6	5
73	Workflow for the Generation of Expert-Derived Training and Validation Data: A View to Global Scale Habitat Mapping. <i>Frontiers in Marine Science</i> , 2021 , 8,	4.5	5
72	Amazon tree dominance across forest strata. <i>Nature Ecology and Evolution</i> , 2021 , 5, 757-767	12.3	5
71	Den site selection, pack composition, and reproductive success in endangered African wild dogs. <i>Behavioral Ecology</i> , 2016 , arw124	2.3	5
70	Monitoring tropical forest succession at landscape scales despite uncertainty in Landsat time series. <i>Ecological Applications</i> , 2021 , 31, e02208	4.9	5
69	Imaging Spectroscopy for Conservation Applications. <i>Remote Sensing</i> , 2021 , 13, 292	5	5
68	Advancing Landscape and Seascape Ecology from a 2D to a 3D Science. <i>BioScience</i> , 2021 , 71, 596-608	5.7	5
67	Exploring the links between secondary metabolites and leaf spectral reflectance in a diverse genus of Amazonian trees. <i>Ecosphere</i> , 2021 , 12, e03362	3.1	5
66	Canopy chemistry expresses the life-history strategies of lianas and trees 2014 , 299-308		4
65	The assessment of data mining algorithms for modelling Savannah Woody cover using multi-frequency (X-, C- and L-band) synthetic aperture radar (SAR) datasets 2014 ,		4
64	Reply to Skole et al.: Regarding high-resolution carbon stocks and emissions in the Amazon. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, E13-E14	11.5	4
63	Advances in airborne remote sensing of ecosystem processes and properties: toward high-quality measurement on a global scale 2010 ,		4
62	Variações sazonais nas concentrações de pigmentos e nutrientes em folhas de espécies de cerrado com diferentes estratégias fenológicas. <i>Revista Brasileira De Botanica</i> , 2007 , 30,	1.2	4

61	The bio-geophysical approach to remote sensing of vegetation in coupled human-environment systems: Societal benefits and global context. <i>Journal of Spatial Science</i> , 2006 , 51, 49-66	1.6	4
60	The Large-Scale Biosphere-Atmosphere Experiment in Amazonia: Analyzing Regional Land Use Change Effects. <i>Geophysical Monograph Series</i> , 2004 , 321-334	1.1	4
59	Near-real time aboveground carbon emissions in Peru. <i>PLoS ONE</i> , 2020 , 15, e0241418	3.7	4
58	Hydrological effects of tree invasion on a dry coastal Hawaiian ecosystem. <i>Forest Ecology and Management</i> , 2020 , 458, 117653	3.9	4
57	Spatial heterogeneity facilitates carnivore coexistence. <i>Ecology</i> , 2021 , 102, e03319	4.6	4
56	Fuelwood extraction intensity drives compensatory regrowth in African savanna communal lands. <i>Land Degradation and Development</i> , 2019 , 30, 190-201	4.4	4
55	Impacts of pollution, fishing pressure, and reef rugosity on resource fish biomass in West Hawaii. <i>Ecological Applications</i> , 2021 , 31, e2213	4.9	4
54	High-Resolution Remote Sensing Data as a Boundary Object to Facilitate Interdisciplinary Collaboration 2019 , 295-326		3
53	High-Resolution Mapping of Redwood (<i>Sequoia sempervirens</i>) Distributions in Three Californian Forests. <i>Remote Sensing</i> , 2019 , 11, 351	5	3
52	The Influence of Ecosystem and Phylogeny on Tropical Tree Crown Size and Shape. <i>Frontiers in Forests and Global Change</i> , 2020 , 3,	3.7	3
51	Opportunistic feeding by lions: non-preferred prey comprise an important part of lion diets in a habitat where preferred prey are abundant. <i>Mammal Research</i> , 2020 , 65, 235-243	1.8	3
50	Spatial drivers of composition and connectivity across endangered tropical dry forests. <i>Journal of Applied Ecology</i> , 2020 , 57, 1593-1604	5.8	3
49	Effects of Protected Areas on Forest Cover Change and Local Communities: Evidence from the Peruvian Amazon. <i>SSRN Electronic Journal</i> , 2014 ,	1	3
48	Resilience against exotic species invasion in a tropical montane forest. <i>Journal of Vegetation Science</i> , 2014 , 25, 734-749	3.1	3
47	Detailed structural characterisation of the savanna flux site at Skukuza, South Africa 2009 ,		3
46	Retrieval of Quantitative and Qualitative Information about Plant Pigment Systems from High Resolution Spectroscopy 2006 ,		3
45	FLuorescence EXplorer (FLEX): an optimised payload to map vegetation photosynthesis from space 2006 ,		3
44	Deforestation scenarios show the importance of secondary forest for meeting Panama's carbon goals. <i>Landscape Ecology</i> , 2014 ,	4.3	3

43	Coral Bleaching Detection in the Hawaiian Islands Using Spatio-Temporal Standardized Bottom Reflectance and Planet Dove Satellites. <i>Remote Sensing</i> , 2020 , 12, 3219	5	3
42	Landslide age, elevation and residual vegetation determine tropical montane forest canopy recovery and biomass accumulation after landslide disturbances in the Peruvian Andes. <i>Journal of Ecology</i> , 2021 , 109, 3555	6	3
41	Indirect Estimation of Structural Parameters in South African Forests Using MISR-HR and LiDAR Remote Sensing Data. <i>Remote Sensing</i> , 2018 , 10, 1537	5	3
40	Litter inputs drive patterns of soil nitrogen heterogeneity in a diverse tropical forest: Results from a litter manipulation experiment. <i>Soil Biology and Biochemistry</i> , 2021 , 158, 108247	7.5	3
39	Mesoscale Exploration and Conservation of Tropical Canopies in a Changing Climate 2013 , 177-193		3
38	Reply to Robinson et al.: Building the evidence base on the forest cover effects of community titling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, E5765 ^{11.5}		2
37	Reprint: Building and testing models of long-term agricultural intensification and population dynamics: A case study from the Leeward Kohala Field System, Hawai'i <i>Ecological Modelling</i> , 2012 , 241, 54-64	3	2
36	Regularization of discriminant analysis for the study of biodiversity in humid tropical forests 2011 ,		2
35	Spectral variability within species and its effects on Savanna tree species discrimination 2009 ,		2
34	Estimating Canopy Structure in an Amazon Forest from Laser Range Finder and IKONOS Satellite Observations ¹ . <i>Biotropica</i> , 2002 , 34, 483	2.3	2
33	Geomorphic transience moderates topographic controls on tropical canopy foliar traits. <i>Ecology Letters</i> , 2020 , 23, 1276-1286	10	2
32	Primary Succession on a Hawaiian Dryland Chronosequence. <i>PLoS ONE</i> , 2015 , 10, e0123995	3.7	2
31	Land-use choices: balancing human needs and ecosystem function 2004 , 2, 249		2
30	Landscape scale variation in the hydrologic niche of California coast redwood. <i>Ecography</i> , 2020 , 43, 130561315		2
29	Environmental controls on African herbivore responses to landscapes of fear. <i>Oikos</i> , 2021 , 130, 171-186	4	2
28	Are Sunken Warships Biodiversity Havens for Corals?. <i>Diversity</i> , 2022 , 14, 139	2.5	2
27	Lack of association between deforestation and either sustainability commitments or fines in private concessions in the Peruvian Amazon. <i>Forest Policy and Economics</i> , 2019 , 104, 1-8	3.6	1
26	Historical Land-Cover Classification for Conservation and Management in Hawaiian Subalpine Drylands. <i>Pacific Science</i> , 2012 , 66, 457-466	0.9	1

25	Mapping tropical rainforest canopies using multi-temporal spaceborne imaging spectroscopy 2013 ,		1
24	Three-dimensional woody vegetation structure across different land-use types and -land-use intensities in a semi-arid savanna 2009 ,		1
23	Fusing waveform lidar and hyperspectral data for species-level structural assessment in savanna ecosystems 2010 ,		1
22	Typological Responses of Ecosystems to Land Use Change. <i>Geophysical Monograph Series</i> , 2004 , 337-344	1.1	1
21	Imaging spectroscopy studies of Hawaiian ecosystems, carbon properties, and disturbance 2005 ,		1
20	Effects of an African grass invasion on Hawaiian shrubland nitrogen biogeochemistry. <i>Hydrobiologia</i> , 1996 , 186, 205-211	2.4	1
19	Mapping the vulnerability of giant sequoias after extreme drought in California using remote sensing. <i>Ecological Applications</i> , 2021 , 31, e02395	4.9	1
18	Space-use patterns of Malay civets (<i>Viverra zibetha</i>) persisting within a landscape fragmented by oil palm plantations. <i>Landscape Ecology</i> , 2021 , 36, 915-930	4.3	1
17	Species-level tree crown maps improve predictions of tree recruit abundance in a tropical landscape.. <i>Ecological Applications</i> , 2022 , e2585	4.9	1
16	Mapped coral mortality and refugia in an archipelago-scale marine heat wave.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022 , 119, e2123331119	11.5	1
15	Empirically validated drought vulnerability mapping in the mixed conifer forests of the Sierra Nevada.. <i>Ecological Applications</i> , 2021 , e2514	4.9	0
14	Early detection of a tree pathogen using airborne remote sensing.. <i>Ecological Applications</i> , 2021 , e2519	4.9	0
13	Integrating ecosystem services modeling and efficiencies in decision-support models conceptualization for watershed management. <i>Ecological Modelling</i> , 2022 , 466, 109879	3	0
12	Regional High-Resolution Benthic Habitat Data from Planet Dove Imagery for Conservation Decision-Making and Marine Planning. <i>Remote Sensing</i> , 2021 , 13, 4215	5	0
11	Computing for Analysis and Modeling of Hyperspectral Imagery. <i>Chapman & Hall/CRC Computer and Information Science Series</i> , 2007 , 109-130		0
10	Optimizing invasive species management using mathematical programming to support stewardship of water and carbon-based ecosystem services. <i>Journal of Environmental Management</i> , 2022 , 301, 113803	7.9	0
9	A new remote sensing-based carbon sequestration potential index (CSPI): A tool to support land carbon management. <i>Forest Ecology and Management</i> , 2021 , 494, 119343	3.9	0
8	Ecosystem carbon balance in the Hawaiian Islands under different scenarios of future climate and land use change. <i>Environmental Research Letters</i> , 2021 , 16, 104020	6.2	0

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|---|--|-----|---|
| 7 | Ecosystem-scale mapping of coral species and thermal tolerance. <i>Frontiers in Ecology and the Environment</i> , | 5.5 | o |
| 6 | Termites and trees. Response to comment on "Termite mounds alter the spatial distribution of African savanna tree species" <i>Journal of Biogeography</i> , 2017 , 44, 952-956 | 4.1 | |
| 5 | Invasions and ecosystems: vulnerabilities and the contribution of new technologies 2010 , 277-288 | | |
| 4 | Letters to the editor about the contents of past issues and comments on topics of current concern to Frontiers readers. <i>Frontiers in Ecology and the Environment</i> , 2007 , 5, 237-240 | 5.5 | |
| 3 | A framework for establishing a rapid fire death resistance program. <i>New Forests</i> ,1 | 2.6 | |
| 2 | Using spatially explicit, time-dependent analysis to understand how social factors influence conservation outcomes. <i>Conservation Biology</i> , 2020 , 34, 505-514 | 6 | |
| 1 | Depth-dependent indicators of algal turf herbivory throughout the Main Hawaiian Islands. <i>Coral Reefs</i> , 2021 , 40, 1397-1408 | 4.2 | |