

Simon L Lewis

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

141
papers

22,758
citations

57
h-index

150
g-index

154
ext. papers

27,108
ext. citations

12.6
avg, IF

6.81
L-index

#	Paper	IF	Citations
141	A large and persistent carbon sink in the world's forests. <i>Science</i> , 2011 , 333, 988-93	33.3	3950
140	Towards a worldwide wood economics spectrum. <i>Ecology Letters</i> , 2009 , 12, 351-66	10	1747
139	Defining the anthropocene. <i>Nature</i> , 2015 , 519, 171-80	50.4	1378
138	Benchmark map of forest carbon stocks in tropical regions across three continents. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 9899-904	11.5	1341
137	Drought sensitivity of the Amazon rainforest. <i>Science</i> , 2009 , 323, 1344-7	33.3	1213
136	The 2010 Amazon drought. <i>Science</i> , 2011 , 331, 554	33.3	783
135	Increasing carbon storage in intact African tropical forests. <i>Nature</i> , 2009 , 457, 1003-6	50.4	714
134	Positive biodiversity-productivity relationship predominant in global forests. <i>Science</i> , 2016 , 354,	33.3	593
133	Variation in wood density determines spatial patterns in Amazonian forest biomass. <i>Global Change Biology</i> , 2004 , 10, 545-562	11.4	535
132	Increasing dominance of large lianas in Amazonian forests. <i>Nature</i> , 2002 , 418, 770-4	50.4	428
131	The regional variation of aboveground live biomass in old-growth Amazonian forests. <i>Global Change Biology</i> , 2006 , 12, 1107-1138	11.4	424
130	Increasing human dominance of tropical forests. <i>Science</i> , 2015 , 349, 827-32	33.3	403
129	Drought-mortality relationships for tropical forests. <i>New Phytologist</i> , 2010 , 187, 631-46	9.8	400
128	TRY plant trait database - enhanced coverage and open access. <i>Global Change Biology</i> , 2020 , 26, 119-188	11.4	399
127	The above-ground coarse wood productivity of 104 Neotropical forest plots. <i>Global Change Biology</i> , 2004 , 10, 563-591	11.4	366
126	An integrated pan-tropical biomass map using multiple reference datasets. <i>Global Change Biology</i> , 2016 , 22, 1406-20	11.4	358
125	Increasing biomass in Amazonian forest plots. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2004 , 359, 353-65	5.8	347

124	Simulated resilience of tropical rainforests to CO ₂ -induced climate change. <i>Nature Geoscience</i> , 2013 , 6, 268-273	18.3	293
123	Restoring natural forests is the best way to remove atmospheric carbon. <i>Nature</i> , 2019 , 568, 25-28	50.4	291
122	Age, extent and carbon storage of the central Congo Basin peatland complex. <i>Nature</i> , 2017 , 542, 86-90	50.4	283
121	The high value of logged tropical forests: lessons from northern Borneo. <i>Biodiversity and Conservation</i> , 2010 , 19, 985-997	3.4	218
120	Tropical forests and the changing earth system. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2006 , 361, 195-210	5.8	216
119	Predictable waves of sequential forest degradation and biodiversity loss spreading from an African city. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 14556-61	11.5	215
118	Markedly divergent estimates of Amazon forest carbon density from ground plots and satellites. <i>Global Ecology and Biogeography</i> , 2014 , 23, 935-946	6.1	205
117	Above-ground biomass and structure of 260 African tropical forests. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2013 , 368, 20120295	5.8	204
116	Asynchronous carbon sink saturation in African and Amazonian tropical forests. <i>Nature</i> , 2020 , 579, 80-87	50.4	202
115	Changing Ecology of Tropical Forests: Evidence and Drivers. <i>Annual Review of Ecology, Evolution, and Systematics</i> , 2009 , 40, 529-549	13.5	196
114	Fingerprinting the impacts of global change on tropical forests. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2004 , 359, 437-62	5.8	180
113	Diversity and carbon storage across the tropical forest biome. <i>Scientific Reports</i> , 2017 , 7, 39102	4.9	177
112	Drought-induced shifts in the floristic and functional composition of tropical forests in Ghana. <i>Ecology Letters</i> , 2012 , 15, 1120-9	10	170
111	Earth system impacts of the European arrival and Great Dying in the Americas after 1492. <i>Quaternary Science Reviews</i> , 2019 , 207, 13-36	3.9	169
110	The changing Amazon forest. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2008 , 363, 1819-27	5.8	168
109	Compositional response of Amazon forests to climate change. <i>Global Change Biology</i> , 2019 , 25, 39-56	11.4	158
108	Hyperdominance in Amazonian forest carbon cycling. <i>Nature Communications</i> , 2015 , 6, 6857	17.4	157
107	Tropical forest tree mortality, recruitment and turnover rates: calculation, interpretation and comparison when census intervals vary. <i>Journal of Ecology</i> , 2004 , 92, 929-944	6	137

106	Ecosystem heterogeneity determines the ecological resilience of the Amazon to climate change. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 793-7	11.5	127
105	ForestPlots.net: a web application and research tool to manage and analyse tropical forest plot data. <i>Journal of Vegetation Science</i> , 2011 , 22, 610-613	3.1	126
104	TESSA: A toolkit for rapid assessment of ecosystem services at sites of biodiversity conservation importance. <i>Ecosystem Services</i> , 2013 , 5, 51-57	6.1	125
103	Topography shapes the structure, composition and function of tropical forest landscapes. <i>Ecology Letters</i> , 2018 , 21, 989-1000	10	108
102	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
101	Predictive systems ecology. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2013 , 280, 20131452	4.4	101
100	The odd man out? Might climate explain the lower tree diversity of African rain forests relative to Amazonian rain forests?. <i>Journal of Ecology</i> , 2007 , 95, 1058-1071	6	99
99	Mechanisms of monodominance in diverse tropical tree-dominated systems. <i>Journal of Ecology</i> , 2011 , 99, 891-898	6	98
98	Implementation and opportunity costs of reducing deforestation and forest degradation in Tanzania. <i>Nature Climate Change</i> , 2011 , 1, 161-164	21.4	96
97	Seasonal drought limits tree species across the Neotropics. <i>Ecography</i> , 2017 , 40, 618-629	6.5	93
96	African rainforests: past, present and future. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2013 , 368, 20120312	5.8	93
95	EFFECTS OF ABOVE- AND BELOWGROUND COMPETITION ON GROWTH AND SURVIVAL OF RAIN FOREST TREE SEEDLINGS. <i>Ecology</i> , 2000 , 81, 2525-2538	4.6	93
94	Long-term thermal sensitivity of Earth's tropical forests. <i>Science</i> , 2020 , 368, 869-874	33.3	92
93	On the delineation of tropical vegetation types with an emphasis on forest/savanna transitions. <i>Plant Ecology and Diversity</i> , 2013 , 6, 101-137	2.2	91
92	Residence times of woody biomass in tropical forests. <i>Plant Ecology and Diversity</i> , 2013 , 6, 139-157	2.2	90
91	Getting ready for REDD+ in Tanzania: a case study of progress and challenges. <i>Oryx</i> , 2010 , 44, 339-351	1.5	86
90	Long-term carbon sink in Borneo's forests halted by drought and vulnerable to edge effects. <i>Nature Communications</i> , 2017 , 8, 1966	17.4	77
89	Measuring, modeling and mapping ecosystem services in the Eastern Arc Mountains of Tanzania. <i>Progress in Physical Geography</i> , 2011 , 35, 595-611	3.5	70

88	Implications of future climate and atmospheric CO ₂ content for regional biogeochemistry, biogeography and ecosystem services across East Africa. <i>Global Change Biology</i> , 2010 , 16, 617-640	11.4	65
87	Carbon sequestration and biodiversity following 18 years of active tropical forest restoration. <i>Forest Ecology and Management</i> , 2016 , 373, 44-55	3.9	64
86	Methods to estimate aboveground wood productivity from long-term forest inventory plots. <i>Forest Ecology and Management</i> , 2014 , 320, 30-38	3.9	62
85	Tropical forest wood production: a cross-continental comparison. <i>Journal of Ecology</i> , 2014 , 102, 1025-1037		58
84	Ground Data are Essential for Biomass Remote Sensing Missions. <i>Surveys in Geophysics</i> , 2019 , 40, 863-880	6	56
83	Phylogenetic diversity of Amazonian tree communities. <i>Diversity and Distributions</i> , 2015 , 21, 1295-1307	5	56
82	Field methods for sampling tree height for tropical forest biomass estimation. <i>Methods in Ecology and Evolution</i> , 2018 , 9, 1179-1189	7.7	53
81	Carbon storage, structure and composition of miombo woodlands in Tanzania's Eastern Arc Mountains. <i>African Journal of Ecology</i> , 2011 , 49, 332-342	0.8	53
80	Pan-tropical prediction of forest structure from the largest trees. <i>Global Ecology and Biogeography</i> , 2018 , 27, 1366-1383	6.1	52
79	We must set planetary boundaries wisely. <i>Nature</i> , 2012 , 485, 417	50.4	51
78	Fast demographic traits promote high diversification rates of Amazonian trees. <i>Ecology Letters</i> , 2014 , 17, 527-36	10	48
77	Estimating aboveground net biomass change for tropical and subtropical forests: Refinement of IPCC default rates using forest plot data. <i>Global Change Biology</i> , 2019 , 25, 3609-3624	11.4	44
76	Diversity and aboveground biomass in three tropical forest types in the Dja Biosphere Reserve, Cameroon. <i>African Journal of Ecology</i> , 2010 , 48, 1053-1063	0.8	43
75	Land cover change and carbon emissions over 100 years in an African biodiversity hotspot. <i>Global Change Biology</i> , 2016 , 22, 2787-800	11.4	43
74	Comment on "The global tree restoration potential". <i>Science</i> , 2019 , 366,	33.3	41
73	A transparent framework for defining the Anthropocene Epoch. <i>Infrastructure Asset Management</i> , 2015 , 2, 128-146	1.8	41
72	Drier tropical forests are susceptible to functional changes in response to a long-term drought. <i>Ecology Letters</i> , 2019 , 22, 855-865	10	39
71	Anthropocene: Earth System, geological, philosophical and political paradigm shifts. <i>Infrastructure Asset Management</i> , 2015 , 2, 108-116	1.8	39

70	Soil does not explain monodominance in a Central African tropical forest. <i>PLoS ONE</i> , 2011 , 6, e16996	3.7	38
69	Are the dynamics of tropical forests dominated by large and rare disturbance events?. <i>Ecology Letters</i> , 2009 , 12, E19-21; discussion E22-5	10	36
68	Biogeographic distributions of neotropical trees reflect their directly measured drought tolerances. <i>Scientific Reports</i> , 2017 , 7, 8334	4.9	35
67	Spatial Distribution of Carbon Stored in Forests of the Democratic Republic of Congo. <i>Scientific Reports</i> , 2017 , 7, 15030	4.9	34
66	African Savanna-Forest Boundary Dynamics: A 20-Year Study. <i>PLoS ONE</i> , 2016 , 11, e0156934	3.7	34
65	Congo Basin peatlands: threats and conservation priorities. <i>Mitigation and Adaptation Strategies for Global Change</i> , 2019 , 24, 669-686	3.9	34
64	In Situ Reference Datasets From the TropiSAR and AfriSAR Campaigns in Support of Upcoming Spaceborne Biomass Missions. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2018 , 11, 3617-3627	4.7	33
63	Neogene origins and implied warmth tolerance of Amazon tree species. <i>Ecology and Evolution</i> , 2012 , 3, 162-9	2.8	33
62	. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2018 , 11, 3512-3526	4.7	32
61	Evaluating the tropical forest carbon sink. <i>Global Change Biology</i> , 2014 , 20, 2039-41	11.4	31
60	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
59	The Forest Observation System, building a global reference dataset for remote sensing of forest biomass. <i>Scientific Data</i> , 2019 , 6, 198	8.2	29
58	Long-term droughts may drive drier tropical forests towards increased functional, taxonomic and phylogenetic homogeneity. <i>Nature Communications</i> , 2020 , 11, 3346	17.4	28
57	Competition influences tree growth, but not mortality, across environmental gradients in Amazonia and tropical Africa. <i>Ecology</i> , 2020 , 101, e03052	4.6	24
56	Tree mode of death and mortality risk factors across Amazon forests. <i>Nature Communications</i> , 2020 , 11, 5515	17.4	24
55	Height-diameter allometry and above ground biomass in tropical montane forests: Insights from the Albertine Rift in Africa. <i>PLoS ONE</i> , 2017 , 12, e0179653	3.7	23
54	Predicting alpha diversity of African rain forests: models based on climate and satellite-derived data do not perform better than a purely spatial model. <i>Journal of Biogeography</i> , 2011 , 38, 1164-1176	4.1	23
53	Impacts of global atmospheric change on tropical forests. <i>Trends in Ecology and Evolution</i> , 2006 , 21, 173-4; author reply 174-5	10.9	23

52	New insights on above ground biomass and forest attributes in tropical montane forests. <i>Forest Ecology and Management</i> , 2017 , 399, 235-246	3.9	22
51	The global abundance of tree palms. <i>Global Ecology and Biogeography</i> , 2020 , 29, 1495-1514	6.1	21
50	Towards regional, error-bounded landscape carbon storage estimates for data-deficient areas of the world. <i>PLoS ONE</i> , 2012 , 7, e44795	3.7	21
49	Phylogenetic composition and structure of tree communities shed light on historical processes influencing tropical rainforest diversity. <i>Ecography</i> , 2017 , 40, 521-530	6.5	20
48	Mixed-forest species establishment in a monodominant forest in central Africa: implications for tropical forest invasibility. <i>PLoS ONE</i> , 2014 , 9, e97585	3.7	20
47	The persistence of carbon in the African forest understory. <i>Nature Plants</i> , 2019 , 5, 133-140	11.5	19
46	Quantifying and understanding carbon storage and sequestration within the Eastern Arc Mountains of Tanzania, a tropical biodiversity hotspot. <i>Carbon Balance and Management</i> , 2014 , 9, 2	3.6	19
45	Evaluating the potential of full-waveform lidar for mapping pan-tropical tree species richness. <i>Global Ecology and Biogeography</i> , 2020 , 29, 1799-1816	6.1	19
44	Biome-specific effects of nitrogen and phosphorus on the photosynthetic characteristics of trees at a forest-savanna boundary in Cameroon. <i>Oecologia</i> , 2015 , 178, 659-72	2.9	18
43	Shifting dynamics of climate-functional groups in old-growth Amazonian forests. <i>Plant Ecology and Diversity</i> , 2014 , 7, 267-279	2.2	18
42	Investigating diversity dependence of tropical forest litter decomposition: experiments and observations from Central Africa. <i>Journal of Vegetation Science</i> , 2012 , 23, 223-235	3.1	18
41	The past, present and future of Africa's rainforests. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2013 , 368, 20120293	5.8	18
40	Conservation implications of recent advances in biodiversity functioning research. <i>Biological Conservation</i> , 2012 , 151, 26-31	6.2	17
39	Foliar trait contrasts between African forest and savanna trees: genetic versus environmental effects. <i>Functional Plant Biology</i> , 2014 , 42, 63-83	2.7	16
38	Changes in Amazonian Forest Biomass, Dynamics, and Composition, 1980-2002. <i>Geophysical Monograph Series</i> , 2009 , 355-372	1.1	15
37	Pantropical modelling of canopy functional traits using Sentinel-2 remote sensing data. <i>Remote Sensing of Environment</i> , 2021 , 252, 112122	13.2	15
36	Consistent, small effects of treefall disturbances on the composition and diversity of four Amazonian forests. <i>Journal of Ecology</i> , 2016 , 104, 497-506	6	14
35	The Paris Agreement has solved a troubling problem. <i>Nature</i> , 2016 , 532, 283	50.4	13

34	Ecosystem Carbon Fluxes and Amazonian Forest Metabolism. <i>Geophysical Monograph Series</i> , 2009 , 373-387		12
33	Assessment of Bias in Pan-Tropical Biomass Predictions. <i>Frontiers in Forests and Global Change</i> , 2020 , 3,	3.7	11
32	Exploring the relation between remotely sensed vertical canopy structure and tree species diversity in Gabon. <i>Environmental Research Letters</i> , 2019 , 14, 094013	6.2	11
31	Aboveground biomass density models for NASA's Global Ecosystem Dynamics Investigation (GEDI) lidar mission. <i>Remote Sensing of Environment</i> , 2022 , 270, 112845	13.2	11
30	The Role of Forest Elephants in Shaping Tropical Forest Savanna Coexistence. <i>Ecosystems</i> , 2020 , 23, 602-616	3.9	11
29	Resistance of African tropical forests to an extreme climate anomaly. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	10
28	High aboveground carbon stock of African tropical montane forests. <i>Nature</i> , 2021 , 596, 536-542	50.4	10
27	Recent changes in tropical forest biomass and dynamics	77-108	9
26	The NASA AfriSAR campaign: Airborne SAR and lidar measurements of tropical forest structure and biomass in support of current and future space missions. <i>Remote Sensing of Environment</i> , 2021 , 264, 112533	13.3	9
25	Recent Changes in Amazon Forest Biomass and Dynamics. <i>Ecological Studies</i> , 2016 , 191-224	1.1	8
24	Stand structure and species co-occurrence in mixed and monodominant Central African tropical forests. <i>Journal of Tropical Ecology</i> , 2014 , 30, 447-455	1.3	8
23	First Evidence of Peat Domes in the Congo Basin using LiDAR from a Fixed-Wing Drone. <i>Remote Sensing</i> , 2020 , 12, 2196	5	8
22	Effects of Earth system feedbacks on the potential mitigation of large-scale tropical forest restoration. <i>Biogeosciences</i> , 2021 , 18, 2627-2647	4.6	8
21	Old growth Afrotropical forests critical for maintaining forest carbon. <i>Global Ecology and Biogeography</i> , 2020 , 29, 1785-1798	6.1	7
20	Geological evidence for the Anthropocene. <i>Science</i> , 2015 , 349, 246.2-247	33.3	6
19	How to beat the media in the climate street fight. <i>Nature</i> , 2010 , 468, 7	50.4	6
18	The number of tree species on Earth.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022 , 119,	11.5	6
17	Pantropical variability in tree crown allometry. <i>Global Ecology and Biogeography</i> , 2021 , 30, 459-475	6.1	6

16	Aboveground forest biomass varies across continents, ecological zones and successional stages: refined IPCC default values for tropical and subtropical forests. <i>Environmental Research Letters</i> , 2022 , 17, 014047	6.2	5
15	An Integrated Framework to Assess Greenwashing. <i>Sustainability</i> , 2022 , 14, 4431	3.6	5
14	Ecosystem services: Forests are more than sticks of carbon. <i>Nature</i> , 2014 , 507, 306	50.4	3
13	EFFECTS OF ABOVE- AND BELOWGROUND COMPETITION ON GROWTH AND SURVIVAL OF RAIN FOREST TREE SEEDLINGS 2000 , 81, 2525		3
12	Additive influences of soil and climate gradients drive tree community composition of Central African rain forests. <i>Journal of Vegetation Science</i> , 2020 , 31, 1154-1167	3.1	2
11	Carbon emissions: the poorest forest dwellers could suffer. <i>Nature</i> , 2009 , 462, 567	50.4	2
10	A comprehensive framework for assessing the accuracy and uncertainty of global above-ground biomass maps. <i>Remote Sensing of Environment</i> , 2022 , 272, 112917	13.2	2
9	Congo Basin rainforest - invest US\$150 million in science. <i>Nature</i> , 2021 , 598, 411-414	50.4	2
8	Late twentieth-century trends in the biomass of Amazonian forest plots 2005 , 129-142		2
7	Late twentieth-century patterns and trends in Amazon tree turnover 2005 , 107-128		2
6	Earth System Models Are Not Capturing Present-Day Tropical Forest Carbon Dynamics. <i>Earth's Future</i> , 2021 , 9, e2020EF001874	7.9	2
5	Aboveground biomass estimation in tropical forests at single tree level with ALS data 2016 ,		1
4	Scientist-versus-activist debates mislead the public. <i>Nature</i> , 2014 , 506, 409	50.4	1
3	Geological evidence for the Anthropocene. <i>Science</i> , 2015 , 349, 246-7	33.3	1
2	Changing Tropical Forest Dynamics and Their Effects on Canopy Geometry and Tropical Forest Biodiversity 2013 , 247-260		1
1	MODIS Vegetation Continuous Fields tree cover needs calibrating in tropical savannas. <i>Biogeosciences</i> , 2022 , 19, 1377-1394	4.6	0