

Hans Verbeeck

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110 papers	4,998 citations	32 h-index	69 g-index
150 ext. papers	6,652 ext. citations	7.9 avg, IF	4.86 L-index

#	Paper	IF	Citations
110	Terrestrial biosphere models need better representation of vegetation phenology: results from the North American Carbon Program Site Synthesis. <i>Global Change Biology</i> , 2012 , 18, 566-584	11.4	481
109	TRY plant trait database - enhanced coverage and open access. <i>Global Change Biology</i> , 2020 , 26, 119-188	11.4	399
108	An integrated pan-tropical biomass map using multiple reference datasets. <i>Global Change Biology</i> , 2016 , 22, 1406-20	11.4	358
107	Vegetation demographics in Earth System Models: A review of progress and priorities. <i>Global Change Biology</i> , 2018 , 24, 35-54	11.4	309
106	A model-data comparison of gross primary productivity: Results from the North American Carbon Program site synthesis. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		239
105	A model-data intercomparison of CO2 exchange across North America: Results from the North American Carbon Program site synthesis. <i>Journal of Geophysical Research</i> , 2010 , 115,		216
104	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
103	Asynchronous carbon sink saturation in African and Amazonian tropical forests. <i>Nature</i> , 2020 , 579, 80-87	50.4	202
102	Terrestrial biosphere model performance for inter-annual variability of land-atmosphere CO2 exchange. <i>Global Change Biology</i> , 2012 , 18, 1971-1987	11.4	191
101	Forest resilience and tipping points at different spatio-temporal scales: approaches and challenges. <i>Journal of Ecology</i> , 2015 , 103, 5-15	6	166
100	Air temperature optima of vegetation productivity across global biomes. <i>Nature Ecology and Evolution</i> , 2019 , 3, 772-779	12.3	128
99	Phylogenetic classification of the world's tropical forests. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 1837-1842	11.5	107
98	Variation in stem mortality rates determines patterns of above-ground biomass in Amazonian forests: implications for dynamic global vegetation models. <i>Global Change Biology</i> , 2016 , 22, 3996-4013	11.4	99
97	Long-term thermal sensitivity of Earth's tropical forests. <i>Science</i> , 2020 , 368, 869-874	33.3	92
96	Parameter sensitivity and uncertainty of the forest carbon flux model FORUG: a Monte Carlo analysis. <i>Tree Physiology</i> , 2006 , 26, 807-17	4.2	83
95	Mechanisms of water supply and vegetation demand govern the seasonality and magnitude of evapotranspiration in Amazonia and Cerrado. <i>Agricultural and Forest Meteorology</i> , 2014 , 191, 33-50	5.8	81
94	Conventional tree height-diameter relationships significantly overestimate aboveground carbon stocks in the Central Congo Basin. <i>Nature Communications</i> , 2013 , 4, 2269	17.4	81

93	Terrestrial laser scanning in forest ecology: Expanding the horizon. <i>Remote Sensing of Environment</i> , 2020 , 251, 112102	13.2	79
92	Carbon stock changes and carbon sequestration potential of Flemish cropland soils. <i>Global Change Biology</i> , 2003 , 9, 1193-1203	11.4	68
91	Characterizing the performance of ecosystem models across time scales: A spectral analysis of the North American Carbon Program site-level synthesis. <i>Journal of Geophysical Research</i> , 2011 , 116,		66
90	Evaluation of continental carbon cycle simulations with North American flux tower observations. <i>Ecological Monographs</i> , 2013 , 83, 531-556	9	63
89	Seasonal patterns of CO ₂ fluxes in Amazon forests: Fusion of eddy covariance data and the ORCHIDEE model. <i>Journal of Geophysical Research</i> , 2011 , 116,		60
88	Characterizing the diurnal patterns of errors in the prediction of evapotranspiration by several land-surface models: An NACP analysis. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2014 , 119, 1458-1473	3.7	55
87	Impacts of future deforestation and climate change on the hydrology of the Amazon Basin: a multi-model analysis with a new set of land-cover change scenarios. <i>Hydrology and Earth System Sciences</i> , 2017 , 21, 1455-1475	5.5	53
86	Pan-tropical prediction of forest structure from the largest trees. <i>Global Ecology and Biogeography</i> , 2018 , 27, 1366-1383	6.1	52
85	Overview of the Large-Scale Biosphere-Atmosphere Experiment in Amazonia Data Model Intercomparison Project (LBA-DMIP). <i>Agricultural and Forest Meteorology</i> , 2013 , 182-183, 111-127	5.8	49
84	Stored water use and transpiration in Scots pine: a modeling analysis with ANAFORE. <i>Tree Physiology</i> , 2007 , 27, 1671-85	4.2	45
83	Testing conceptual and physically based soil hydrology schemes against observations for the Amazon Basin. <i>Geoscientific Model Development</i> , 2014 , 7, 1115-1136	6.3	44
82	Impact of hydrological variations on modeling of peatland CO ₂ fluxes: Results from the North American Carbon Program site synthesis. <i>Journal of Geophysical Research</i> , 2012 , 117,		42
81	High fire-derived nitrogen deposition on central African forests. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 549-554	11.5	35
80	Spatial Distribution of Carbon Stored in Forests of the Democratic Republic of Congo. <i>Scientific Reports</i> , 2017 , 7, 15030	4.9	34
79	Liana and tree below-ground water competition-evidence for water resource partitioning during the dry season. <i>Tree Physiology</i> , 2018 , 38, 1071-1083	4.2	33
78	Improved Supervised Learning-Based Approach for Leaf and Wood Classification From LiDAR Point Clouds of Forests. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2020 , 58, 3057-3070	8.1	32
77	Model performance of tree height-diameter relationships in the central Congo Basin. <i>Annals of Forest Science</i> , 2017 , 74, 1	3.1	29
76	Functional community structure of African monodominant forest influenced by local environmental filtering. <i>Ecology and Evolution</i> , 2017 , 7, 295-304	2.8	29

75	The importance of including lianas in global vegetation models. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, E4	11.5	29
74	Inter-annual variability of carbon and water fluxes in Amazonian forest, Cerrado and pasture sites, as simulated by terrestrial biosphere models. <i>Agricultural and Forest Meteorology</i> , 2013 , 182-183, 145-155	5.8	27
73	The global forest above-ground biomass pool for 2010 estimated from high-resolution satellite observations. <i>Earth System Science Data</i> , 2021 , 13, 3927-3950	10.5	26
72	Time for a Plant Structural Economics Spectrum. <i>Frontiers in Forests and Global Change</i> , 2019 , 2,	3.7	25
71	Improving the ISBA_{CC} land surface model simulation of water and carbon fluxes and stocks over the Amazon forest. <i>Geoscientific Model Development</i> , 2015 , 8, 1709-1727	6.3	24
70	Multi-year model analysis of GPP in a temperate beech forest in France. <i>Ecological Modelling</i> , 2008 , 210, 85-103	3	24
69	Inventory-based carbon stock of Flemish forests: a comparison of European biomass expansion factors. <i>Annals of Forest Science</i> , 2004 , 61, 677-682	3.1	24
68	Environmental impact assessment and monetary ecosystem service valuation of an ecosystem under different future environmental change and management scenarios; a case study of a Scots pine forest. <i>Journal of Environmental Management</i> , 2016 , 173, 79-94	7.9	23
67	Contrasting nitrogen fluxes in African tropical forests of the Congo Basin. <i>Ecological Monographs</i> , 2019 , 89, e01342	9	23
66	Reconciling biodiversity and carbon stock conservation in an Afrotropical forest landscape. <i>Science Advances</i> , 2018 , 4, eaar6603	14.3	22
65	Assessing the role of megafauna in tropical forest ecosystems and biogeochemical cycles & the potential of vegetation models. <i>Ecography</i> , 2018 , 41, 1934-1954	6.5	19
64	Modeling the impact of liana infestation on the demography and carbon cycle of tropical forests. <i>Global Change Biology</i> , 2019 , 25, 3767-3780	11.4	19
63	Does canopy mean nitrogen concentration explain variation in canopy light use efficiency across 14 contrasting forest sites?. <i>Tree Physiology</i> , 2012 , 32, 200-18	4.2	19
62	Aboveground vs. Belowground Carbon Stocks in African Tropical Lowland Rainforest: Drivers and Implications. <i>PLoS ONE</i> , 2015 , 10, e0143209	3.7	19
61	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
60	Carbon and energy fluxes in cropland ecosystems: a model-data comparison. <i>Biogeochemistry</i> , 2016 , 129, 53-76	3.8	17
59	Tropical forests: Include Congo basin. <i>Nature</i> , 2011 , 479, 179	50.4	15
58	Taking the pulse of Earth's tropical forests using networks of highly distributed plots. <i>Biological Conservation</i> , 2021 , 260, 108849	6.2	15

57	Can decision rules simulate carbon allocation for years with contrasting and extreme weather conditions? A case study for three temperate beech forests. <i>Ecological Modelling</i> , 2013 , 263, 42-55	3	14
56	Effects of Tree Trunks on Estimation of Clumping Index and LAI from HemiView and Terrestrial LiDAR. <i>Forests</i> , 2018 , 9, 144	2.8	12
55	Semi-automatic extraction of liana stems from terrestrial LiDAR point clouds of tropical rainforests. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2019 , 154, 114-126	11.8	12
54	Functional identity explains carbon sequestration in a 77-year-old experimental tropical plantation. <i>Ecosphere</i> , 2015 , 6, art198	3.1	12
53	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
52	Causes and consequences of pronounced variation in the isotope composition of plant xylem water. <i>Biogeosciences</i> , 2020 , 17, 4853-4870	4.6	11
51	Drivers of carbon stocks in forest edges across Europe. <i>Science of the Total Environment</i> , 2021 , 759, 143497	49.2	11
50	Long-term recovery of the functional community assembly and carbon pools in an African tropical forest succession. <i>Biotropica</i> , 2019 , 51, 319-329	2.3	10
49	Structural variation of forest edges across Europe. <i>Forest Ecology and Management</i> , 2020 , 462, 117929	3.9	10
48	Terrestrial Laser Scanning to Detect Liana Impact on Forest Structure. <i>Remote Sensing</i> , 2018 , 10, 810	5	10
47	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
46	High aboveground carbon stock of African tropical montane forests. <i>Nature</i> , 2021 , 596, 536-542	50.4	10
45	Functional Composition of Tree Communities Changed Topsoil Properties in an Old Experimental Tropical Plantation. <i>Ecosystems</i> , 2017 , 20, 861-871	3.9	9
44	Disentangling how management affects biomass stock and productivity of tropical secondary forests fallows. <i>Science of the Total Environment</i> , 2019 , 659, 101-114	10.2	9
43	Plant measurements on African tropical <i>Maesopsis eminii</i> seedlings contradict pioneering water use behaviour. <i>Environmental and Experimental Botany</i> , 2017 , 135, 27-37	5.9	8
42	The ecology of <i>Maesopsis eminii</i> Engl. in tropical Africa. <i>African Journal of Ecology</i> , 2017 , 55, 679-692	0.8	8
41	Parallel functional and stoichiometric trait shifts in South American and African forest communities with elevation. <i>Biogeosciences</i> , 2017 , 14, 5313-5321	4.6	8
40	The global forest above-ground biomass pool for 2010 estimated from high-resolution satellite observations		8

39	Terrestrial laser scanning for non-destructive estimates of liana stem biomass. <i>Forest Ecology and Management</i> , 2020 , 456, 117751	3.9	8
38	Understanding 3D structural complexity of individual Scots pine trees with different management history. <i>Ecology and Evolution</i> , 2021 , 11, 2561-2572	2.8	8
37	Large-sized rare tree species contribute disproportionately to functional diversity in resource acquisition in African tropical forest. <i>Ecology and Evolution</i> , 2019 , 9, 4349-4361	2.8	7
36	Century-long apparent decrease in intrinsic water-use efficiency with no evidence of progressive nutrient limitation in African tropical forests. <i>Global Change Biology</i> , 2020 , 26, 4449-4461	11.4	7
35	Long-term scenarios of the invasive black cherry in pine-oak forest: Impact of regeneration success. <i>Acta Oecologica</i> , 2011 , 37, 203-211	1.7	6
34	Thirty Years of Land Cover and Fraction Cover Changes over the Sudano-Sahel Using Landsat Time Series. <i>Remote Sensing</i> , 2020 , 12, 3817	5	6
33	Unraveling the relative role of light and water competition between lianas and trees in tropical forests: A vegetation model analysis. <i>Journal of Ecology</i> , 2021 , 109, 519-540	6	6
32	Small scale environmental variation modulates plant defence syndromes of understorey plants in deciduous forests of Europe. <i>Global Ecology and Biogeography</i> , 2021 , 30, 205-219	6.1	5
31	Refining Species Traits in a Dynamic Vegetation Model to Project the Impacts of Climate Change on Tropical Trees in Central Africa. <i>Forests</i> , 2018 , 9, 722	2.8	5
30	Increasing liana frequency in temperate European forest understories is driven by ivy. <i>Frontiers in Ecology and the Environment</i> , 2020 , 18, 550-557	5.5	4
29	High photosynthetic capacity of Sahelian C ₃ and C ₄ plants. <i>Photosynthesis Research</i> , 2021 , 147, 161-175	3.7	4
28	Consequences of vertical basic wood density variation on the estimation of aboveground biomass with terrestrial laser scanning. <i>Trees - Structure and Function</i> , 2021 , 35, 671-684	2.6	4
27	A generic pixel-to-point comparison for simulated large-scale ecosystem properties and ground-based observations: an example from the Amazon region. <i>Geoscientific Model Development</i> , 2018 , 11, 5203-5215	6.3	4
26	Characterising Termite Mounds in a Tropical Savanna with UAV Laser Scanning. <i>Remote Sensing</i> , 2021 , 13, 476	5	4
25	Historical Aerial Surveys Map Long-Term Changes of Forest Cover and Structure in the Central Congo Basin. <i>Remote Sensing</i> , 2020 , 12, 638	5	3
24	Taxonomic, phylogenetic and functional diversity of understorey plants respond differently to environmental conditions in European forest edges. <i>Journal of Ecology</i> , 2021 , 109, 2629-2648	6	3
23	Comparable canopy and soil free-living nitrogen fixation rates in a lowland tropical forest. <i>Science of the Total Environment</i> , 2021 , 754, 142202	10.2	3
22	Biomass Expansion Factors for Hedgerow-Grown Trees Derived from Terrestrial LiDAR. <i>Bioenergy Research</i> , 2021 , 14, 561-574	3.1	3

21	Modelling Amazonian Carbon Budgets and Vegetation Dynamics in a Changing Climate. <i>Ecological Studies</i> , 2016 , 331-366	1.1	2
20	Quantifying tropical forest structure through terrestrial and UAV laser scanning fusion in Australian rainforests. <i>Remote Sensing of Environment</i> , 2022 , 271, 112912	13.2	2
19	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
18	Diurnal variation in the isotope composition of plant xylem water biases the depth of root-water uptake estimates		2
17	Parallel functional and stoichiometric trait shifts in South-American and African forest communities with elevation		2
16	Using terrestrial laser scanning to constrain forest ecosystem structure and functions in the Ecosystem Demography model (ED2.2)		2
15	Lianas and trees exhibit divergent intrinsic water-use efficiency along elevational gradients in South American and African tropical forests. <i>Global Ecology and Biogeography</i> , 2021 , 30, 2259	6.1	2
14	Fire-derived phosphorus fertilization of African tropical forests. <i>Nature Communications</i> , 2021 , 12, 5129	17.4	2
13	Liana communities exhibit different species composition, diversity and community structure across forest types in the Congo Basin. <i>Biotropica</i> , 2020 , 52, 651-663	2.3	1
12	Quantifying Tropical Forest Stand Structure Through Terrestrial and UAV Laser Scanning Fusion 2021 ,		1
11	Liana optical traits increase tropical forest albedo and reduce ecosystem productivity. <i>Global Change Biology</i> , 2022 , 28, 227-244	11.4	1
10	Microclimatic edge-to-interior gradients of European deciduous forests. <i>Agricultural and Forest Meteorology</i> , 2021 , 311, 108699	5.8	1
9	Within-Site Variability of Liana Wood Anatomical Traits: A Case Study in Laussat, French Guiana. <i>Forests</i> , 2020 , 11, 523	2.8	1
8	Lianas in silico, ecological insights from a model of structural parasitism. <i>Ecological Modelling</i> , 2020 , 431, 109159	3	1
7	Liana optical traits increase tropical forest albedo and reduce ecosystem productivity		1
6	Lianas Significantly Reduce Aboveground and Belowground Carbon Storage: A Virtual Removal Experiment. <i>Frontiers in Forests and Global Change</i> , 2021 , 4,	3.7	1
5	Contrasting responses of woody and herbaceous vegetation to altered rainfall characteristics in the Sahel. <i>Biogeosciences</i> , 2021 , 18, 77-93	4.6	1
4	Forest above-ground volume assessments with terrestrial laser scanning: a ground-truth validation experiment in temperate, managed forests. <i>Annals of Botany</i> , 2021 , 128, 805-819	4.1	1

3	Lianification or liana invasion Is there a difference?. <i>Frontiers in Ecology and the Environment</i> , 2021 , 19, 377-378	5.5	1
2	Why can we detect lianas from space?		1
1	Ideas and perspectives: patterns of soil CO ₂ , CH ₄ , and N ₂ O fluxes along an altitudinal gradient A pilot study from an Ecuadorian neotropical montane forest. <i>Biogeosciences</i> , 2021 , 18, 413-421	4.6	0