Bruce Nelson

List of Publications by Citations

70 papers	7,817 citations	35 h-index	80 g-index
80 ext. papers	9,269 ext. citations	8.3 avg, IF	5.4 L-index

#	Paper	IF	Citations
70	Tree allometry and improved estimation of carbon stocks and balance in tropical forests. *Oecologia*, **2005**, 145, 87-99	2.9	1855
69	Improved allometric models to estimate the aboveground biomass of tropical trees. *Global Change Biology*, **2014**, 20, 3177-90	11.4	1202
68	Genomics and epidemiology of the P.1 SARS-CoV-2 lineage in Manaus, Brazil. *Science*, **2021**, 372, 815-821	33.3	603
67	Height-diameter allometry of tropical forest trees. *Biogeosciences*, **2011**, 8, 1081-1106	4.6	311
66	Endemism centres, refugia and botanical collection density in Brazilian Amazonia. *Nature*, **1990**, 345, 714-716	50.4	305
65	Tree height integrated into pantropical forest biomass estimates. *Biogeosciences*, **2012**, 9, 3381-3403	4.6	289
64	Leaf development and demography explain photosynthetic seasonality in Amazon evergreen forests. *Science*, **2016**, 351, 972-6	33.3	252
63	Allometric regressions for improved estimate of secondary forest biomass in the central Amazon. *Forest Ecology and Management*, **1999**, 117, 149-167	3.9	241
62	Spatial patterns of hydrology, geomorphology, and vegetation on the floodplain of the Amazon river in Brazil from a remote sensing perspective. *Geomorphology*, **1995**, 13, 215-232	4.3	182
61	Estimates of forest biomass in the Brazilian Amazon: New allometric equations and adjustments to biomass from wood-volume inventories. *Forest Ecology and Management*, **2008**, 256, 1853-1867	3.9	174
60	Forest Disturbance by Large Blowdowns in the Brazilian Amazon. *Ecology*, **1994**, 75, 853-858	4.6	165
59	The Amazon Tall Tower Observatory (ATTO): overview of pilot measurements on ecosystem ecology, meteorology, trace gases, and aerosols. *Atmospheric Chemistry and Physics*, **2015**, 15, 10723-10776	6.8	155
58	Size and frequency of natural forest disturbances and the Amazon forest carbon balance. *Nature Communications*, **2014**, 5, 3434	17.4	128
57	Spectral changes with leaf aging in Amazon caatinga. *Trees - Structure and Function*, **1998**, 12, 315	2.6	106
56	Natural forest disturbance and change in the Brazilian Amazon. *International Journal of Remote Sensing*, **1994**, 10, 105-125		104
55	Fire disturbance in Amazonian blackwater floodplain forests. *Plant Ecology and Diversity*, **2014**, 7, 319-327	2.2	102
54	Tree height in Brazil's "arc of deforestation": Shorter trees in south and southwest Amazonia imply lower biomass. *Forest Ecology and Management*, **2008**, 255, 2963-2972	3.9	96

53	Wood density in dense forest in central Amazonia, Brazil. *Forest Ecology and Management*, **2005**, 208, 261-286	3.9	93
52	Widespread Amazon forest tree mortality from a single cross-basin squall line event. *Geophysical Research Letters*, **2010**, 37, n/a-n/a	4.9	92
51	Wood density in forests of Brazil's □arc of deforestation□: Implications for biomass and flux of carbon from land-use change in Amazonia. *Forest Ecology and Management*, **2007**, 248, 119-135	3.9	91
50	Bamboo-dominated forests of the southwest Amazon: detection, spatial extent, life cycle length and flowering waves. *PLoS ONE*, **2013**, 8, e54852	3.7	73
49	Leaf flush drives dry season green-up of the Central Amazon. *Remote Sensing of Environment*, **2016**, 182, 90-98	13.2	72
48	Spatial and temporal dynamics of river channel migration and vegetation in central Amazonian white-water floodplains by remote-sensing techniques. *Remote Sensing of Environment*, **2009**, 113, 2258-2266	13.2	68
47	Mapping land cover types in the Amazon Basin using 1 km JERS-1 mosaic. *International Journal of Remote Sensing*, **2000**, 21, 1201-1234	3.1	61
46	Genomics and epidemiology of a novel SARS-CoV-2 lineage in Manaus, Brazil **2021**,		53
45	Storm intensity and old-growth forest disturbances in the Amazon region. *Geophysical Research Letters*, **2010**, 37, n/a-n/a	4.9	46
44	The influence of epiphylls on remote sensing of humid forests. *Remote Sensing of Environment*, **2009**, 113, 1787-1798	13.2	45
43	Fire favours expansion of bamboo-dominated forests in the south-west Amazon. *Journal of Tropical Ecology*, **2011**, 27, 59-64	1.3	43
42	Normalization of wood density in biomass estimates of Amazon forests. *Forest Ecology and Management*, **2008**, 256, 990-996	3.9	43
41	Biological processes dominate seasonality of remotely sensed canopy greenness in an Amazon evergreen forest. *New Phytologist*, **2018**, 217, 1507-1520	9.8	42
40	The effectiveness of lidar remote sensing for monitoring forest cover attributes and landscape restoration. *Forest Ecology and Management*, **2019**, 438, 34-43	3.9	42
39	Optimizing the Remote Detection of Tropical Rainforest Structure with Airborne Lidar: Leaf Area Profile Sensitivity to Pulse Density and Spatial Sampling. *Remote Sensing*, **2019**, 11, 92	5	37
38	Causes of reduced leaf-level photosynthesis during strong El Niˆ ɵ drought in a Central Amazon forest. *Global Change Biology*, **2018**, 24, 4266-4279	11.4	37
37	Volume and biomass of trees in central Amazonia: influence of irregularly shaped and hollow trunks. *Forest Ecology and Management*, **2006**, 227, 14-21	3.9	37
36	Contrasting fire damage and fire susceptibility between seasonally flooded forest and upland forest in the Central Amazon using portable profiling LiDAR. *Remote Sensing of Environment*, **2016**, 184, 153-160	13.2	37

35	Spectral analysis of amazon canopy phenology during the dry season using a tower hyperspectral camera and modis observations. *ISPRS Journal of Photogrammetry and Remote Sensing*, **2017**, 131, 52-64	11.8	35
34	Seasonality of isoprenoid emissions from a primary rainforest in central Amazonia. *Atmospheric Chemistry and Physics*, **2016**, 16, 3903-3925	6.8	34
33	Conservation and management implications of nest-site selection of the sympatric crocodilians Melanosuchus niger and Caiman crocodilus in Central Amazonia, Brazil. *Biological Conservation*, **2011**, 144, 913-919	6.2	29
32	Floristic relationships of terra firme forests in the Brazilian Amazon. *Forest Ecology and Management*, **2001**, 146, 169-179	3.9	29
31	Repeated fires trap Amazonian blackwater floodplains in an open vegetation state. *Journal of Applied Ecology*, **2016**, 53, 1597-1603	5.8	27
30	Fire Damage in Seasonally Flooded and Upland Forests of the Central Amazon. *Biotropica*, **2014**, 46, 643-646	2.5	23
29	Life cycle of bamboo in the southwestern Amazon and its relation to fire events. *Biogeosciences*, **2018**, 15, 6087-6104	4.6	23
28	Multi-scale integration of satellite remote sensing improves characterization of dry-season green-up in an Amazon tropical evergreen forest. *Remote Sensing of Environment*, **2020**, 246, 111865	13.2	22
27	Validating forest types based on geological and land-form features in central Amazonia. *Journal of Vegetation Science*, **2014**, 25, 198-212	3.1	21
26	Tropical Peat Accumulation in Central Amazonia. *Wetlands*, **2013**, 33, 495-503	1.7	21
25	Assessing the relationship between forest types and canopy tree beta diversity in Amazonia. *Ecography*, **2010**, 33, 738-747	6.5	21
24	Ethnobotanical ground-truthing: indigenous knowledge, floristic inventories and satellite imagery in the upper Rio Negro, Brazil. *Journal of Biogeography*, **2008**, 35, 2237-2248	4.1	21
23	Evidence for Late Quaternary aeolian activity in the Roraima□Guyana Region. *Catena*, **2001**, 43, 63-80	5.8	21
22	Leaf decomposition and fine fuels in floodplain forests of the Rio Negro in the Brazilian Amazon. *Journal of Tropical Ecology*, **2013**, 29, 455-458	1.3	20
21	Pervasive Alteration of Tree Communities in Undisturbed Amazonian Forests1. *Biotropica*, **2005**, 37, 158-159	2.5	20
20	The ethnobotany of the Paumarˆ □Indians. *Economic Botany*, **1977**, 31, 129-139	1.7	19
19	RESERVA FLORESTAL DUCKE: DIVERSIDADE E COMPOSIˆ □□O DA FLORA VASCULAR. *Acta Amazonica*, **1994**, 24, 19-30	0.8	17
18	Both near-surface and satellite remote sensing confirm drought legacy effect on tropical forest leaf phenology after 2015/2016 ENSO drought. *Remote Sensing of Environment*, **2020**, 237, 111489	13.2	17

17	Are fluvial islands real islands for arboreal mammals? Uncovering the effect of patch size under the species area relationship. *Journal of Biogeography*, **2017**, 44, 1802-1812	4.1	16
16	The influence of forest definition on landscape fragmentation assessment in Rondˆ ia, Brazil. *Ecological Indicators*, **2009**, 9, 1163-1168	5.8	13
15	Leaf phenology as one important driver of seasonal changes in isoprene emissions in central Amazonia. *Biogeosciences*, **2018**, 15, 4019-4032	4.6	12
14	Monitoring restored tropical forest diversity and structure through UAV-borne hyperspectral and lidar fusion. *Remote Sensing of Environment*, **2021**, 264, 112582	13.2	11
13	Projeto Flora Amazˆ onica: eight years of binational botanical expeditions. *Acta Amazonica*, **1984**, 14, 5-30	0.8	8
12	Impact of Past Forest Fires on Bird Populations in Flooded Forests of the Cuini River in the Lowland Amazon. *Biotropica*, **2012**, 44, 449-453	2.3	7
11	Tree Regeneration Under Different Land-Use Mosaics in the Brazilian Amazon's "Arc of Deforestation". *Environmental Management*, **2015**, 56, 342-54	3.1	6
10	Habitat amount hypothesis and passive sampling explain mammal species composition in Amazonian river islands. *Biotropica*, **2019**, 51, 84-92	2.3	6
9	Bamboo phenology and life cycle drive seasonal and long-term functioning of Amazonian bamboo-dominated forests. *Journal of Ecology*, **2021**, 109, 860-876	6	6
8	Fluorescence parameters among leaf photosynthesis-related traits are the best proxies for CO2 assimilation in Central Amazon trees. *Revista Brasileira De Botanica*, **2019**, 42, 239-247	1.2	5
7	Impacts of selective logging on Amazon forest canopy structure and biomass with a LiDAR and photogrammetric survey sequence. *Forest Ecology and Management*, **2021**, 500, 119648	3.9	5
6	Regional distribution of large blowdown patches across Amazonia in 2005 caused by a single convective squall line. *Geophysical Research Letters*, **2017**, 44, 7793-7798	4.9	4
5	Observations on the pollination of Rhabdodendron macrophyllum (Spruce ex Benth.) Huber.. *Acta Amazonica*, **1984**, 14, 411-426	0.8	3
4	Report 46: Factors driving extensive spatial and temporal fluctuations in COVID-19 fatality rates in Brazilian hospitals **2021**,		3
3	Monitoring leaf phenology in moist tropical forests by applying a superpixel-based deep learning method to time-series images of tree canopies. *ISPRS Journal of Photogrammetry and Remote Sensing*, **2022**, 183, 19-33	11.8	3
2	Distributional and ecological notes on Polygonanthus amazonicus Ducke. *Acta Amazonica*, **1985**, 15, 63-70	0.8	2
1	Forest fragmentation impacts the seasonality of Amazonian evergreen canopies.. *Nature Communications*, **2022**, 13, 917	17.4	1