

Bruce Nelson

List of Publications by Year in Descending Order

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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.

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	Monitoring leaf phenology in moist tropical forests by applying a superpixel-based deep learning method to time-series images of tree canopies. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2022 , 183, 19-33	11.8	3
69	Forest fragmentation impacts the seasonality of Amazonian evergreen canopies.. <i>Nature Communications</i> , 2022 , 13, 917	17.4	1
68	Report 46: Factors driving extensive spatial and temporal fluctuations in COVID-19 fatality rates in Brazilian hospitals 2021 ,		3
67	Genomics and epidemiology of a novel SARS-CoV-2 lineage in Manaus, Brazil 2021 ,		53
66	Genomics and epidemiology of the P.1 SARS-CoV-2 lineage in Manaus, Brazil. <i>Science</i> , 2021 , 372, 815-821	33.3	603
65	Bamboo phenology and life cycle drive seasonal and long-term functioning of Amazonian bamboo-dominated forests. <i>Journal of Ecology</i> , 2021 , 109, 860-876	6	6
64	Monitoring restored tropical forest diversity and structure through UAV-borne hyperspectral and lidar fusion. <i>Remote Sensing of Environment</i> , 2021 , 264, 112582	13.2	11
63	Impacts of selective logging on Amazon forest canopy structure and biomass with a LiDAR and photogrammetric survey sequence. <i>Forest Ecology and Management</i> , 2021 , 500, 119648	3.9	5
62	Multi-scale integration of satellite remote sensing improves characterization of dry-season green-up in an Amazon tropical evergreen forest. <i>Remote Sensing of Environment</i> , 2020 , 246, 111865	13.2	22
61	Both near-surface and satellite remote sensing confirm drought legacy effect on tropical forest leaf phenology after 2015/2016 ENSO drought. <i>Remote Sensing of Environment</i> , 2020 , 237, 111489	13.2	17
60	Fluorescence parameters among leaf photosynthesis-related traits are the best proxies for CO ₂ assimilation in Central Amazon trees. <i>Revista Brasileira De Botanica</i> , 2019 , 42, 239-247	1.2	5
59	Optimizing the Remote Detection of Tropical Rainforest Structure with Airborne Lidar: Leaf Area Profile Sensitivity to Pulse Density and Spatial Sampling. <i>Remote Sensing</i> , 2019 , 11, 92	5	37
58	The effectiveness of lidar remote sensing for monitoring forest cover attributes and landscape restoration. <i>Forest Ecology and Management</i> , 2019 , 438, 34-43	3.9	42
57	Habitat amount hypothesis and passive sampling explain mammal species composition in Amazonian river islands. <i>Biotropica</i> , 2019 , 51, 84-92	2.3	6
56	Biological processes dominate seasonality of remotely sensed canopy greenness in an Amazon evergreen forest. <i>New Phytologist</i> , 2018 , 217, 1507-1520	9.8	42
55	Causes of reduced leaf-level photosynthesis during strong El Niño drought in a Central Amazon forest. <i>Global Change Biology</i> , 2018 , 24, 4266-4279	11.4	37
54	Leaf phenology as one important driver of seasonal changes in isoprene emissions in central Amazonia. <i>Biogeosciences</i> , 2018 , 15, 4019-4032	4.6	12

53	Life cycle of bamboo in the southwestern Amazon and its relation to fire events. <i>Biogeosciences</i> , 2018 , 15, 6087-6104	4.6	23
52	Are fluvial islands real islands for arboreal mammals? Uncovering the effect of patch size under the species-area relationship. <i>Journal of Biogeography</i> , 2017 , 44, 1802-1812	4.1	16
51	Spectral analysis of amazon canopy phenology during the dry season using a tower hyperspectral camera and modis observations. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2017 , 131, 52-64	11.8	35
50	Regional distribution of large blowdown patches across Amazonia in 2005 caused by a single convective squall line. <i>Geophysical Research Letters</i> , 2017 , 44, 7793-7798	4.9	4
49	Seasonality of isoprenoid emissions from a primary rainforest in central Amazonia. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 3903-3925	6.8	34
48	Leaf flush drives dry season green-up of the Central Amazon. <i>Remote Sensing of Environment</i> , 2016 , 182, 90-98	13.2	72
47	Repeated fires trap Amazonian blackwater floodplains in an open vegetation state. <i>Journal of Applied Ecology</i> , 2016 , 53, 1597-1603	5.8	27
46	Leaf development and demography explain photosynthetic seasonality in Amazon evergreen forests. <i>Science</i> , 2016 , 351, 972-6	33.3	252
45	Contrasting fire damage and fire susceptibility between seasonally flooded forest and upland forest in the Central Amazon using portable profiling LiDAR. <i>Remote Sensing of Environment</i> , 2016 , 184, 153-160	13.2	37
44	The Amazon Tall Tower Observatory (ATTO): overview of pilot measurements on ecosystem ecology, meteorology, trace gases, and aerosols. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 10723-10776	6.8	155
43	Tree Regeneration Under Different Land-Use Mosaics in the Brazilian Amazon's "Arc of Deforestation". <i>Environmental Management</i> , 2015 , 56, 342-54	3.1	6
42	Improved allometric models to estimate the aboveground biomass of tropical trees. <i>Global Change Biology</i> , 2014 , 20, 3177-90	11.4	1202
41	Fire Damage in Seasonally Flooded and Upland Forests of the Central Amazon. <i>Biotropica</i> , 2014 , 46, 643-646	5.4	23
40	Fire disturbance in Amazonian blackwater floodplain forests. <i>Plant Ecology and Diversity</i> , 2014 , 7, 319-327	7.2	102
39	Validating forest types based on geological and land-form features in central Amazonia. <i>Journal of Vegetation Science</i> , 2014 , 25, 198-212	3.1	21
38	Size and frequency of natural forest disturbances and the Amazon forest carbon balance. <i>Nature Communications</i> , 2014 , 5, 3434	17.4	128
37	Tropical Peat Accumulation in Central Amazonia. <i>Wetlands</i> , 2013 , 33, 495-503	1.7	21
36	Leaf decomposition and fine fuels in floodplain forests of the Rio Negro in the Brazilian Amazon. <i>Journal of Tropical Ecology</i> , 2013 , 29, 455-458	1.3	20

35	Bamboo-dominated forests of the southwest Amazon: detection, spatial extent, life cycle length and flowering waves. <i>PLoS ONE</i> , 2013 , 8, e54852	3.7	73
34	Impact of Past Forest Fires on Bird Populations in Flooded Forests of the Cuini River in the Lowland Amazon. <i>Biotropica</i> , 2012 , 44, 449-453	2.3	7
33	Tree height integrated into pantropical forest biomass estimates. <i>Biogeosciences</i> , 2012 , 9, 3381-3403	4.6	289
32	Conservation and management implications of nest-site selection of the sympatric crocodilians <i>Melanosuchus niger</i> and <i>Caiman crocodilus</i> in Central Amazonia, Brazil. <i>Biological Conservation</i> , 2011 , 144, 913-919	6.2	29
31	Height-diameter allometry of tropical forest trees. <i>Biogeosciences</i> , 2011 , 8, 1081-1106	4.6	311
30	Fire favours expansion of bamboo-dominated forests in the south-west Amazon. <i>Journal of Tropical Ecology</i> , 2011 , 27, 59-64	1.3	43
29	Assessing the relationship between forest types and canopy tree beta diversity in Amazonia. <i>Ecography</i> , 2010 , 33, 738-747	6.5	21
28	Storm intensity and old-growth forest disturbances in the Amazon region. <i>Geophysical Research Letters</i> , 2010 , 37, n/a-n/a	4.9	46
27	Widespread Amazon forest tree mortality from a single cross-basin squall line event. <i>Geophysical Research Letters</i> , 2010 , 37, n/a-n/a	4.9	92
26	Spatial and temporal dynamics of river channel migration and vegetation in central Amazonian white-water floodplains by remote-sensing techniques. <i>Remote Sensing of Environment</i> , 2009 , 113, 2258-2266	13.2	68
25	The influence of epiphylls on remote sensing of humid forests. <i>Remote Sensing of Environment</i> , 2009 , 113, 1787-1798	13.2	45
24	The influence of forest definition on landscape fragmentation assessment in Rondônia, Brazil. <i>Ecological Indicators</i> , 2009 , 9, 1163-1168	5.8	13
23	Ethnobotanical ground-truthing: indigenous knowledge, floristic inventories and satellite imagery in the upper Rio Negro, Brazil. <i>Journal of Biogeography</i> , 2008 , 35, 2237-2248	4.1	21
22	Tree height in Brazil's Arc of deforestation—Shorter trees in south and southwest Amazonia imply lower biomass. <i>Forest Ecology and Management</i> , 2008 , 255, 2963-2972	3.9	96
21	Normalization of wood density in biomass estimates of Amazon forests. <i>Forest Ecology and Management</i> , 2008 , 256, 990-996	3.9	43
20	Estimates of forest biomass in the Brazilian Amazon: New allometric equations and adjustments to biomass from wood-volume inventories. <i>Forest Ecology and Management</i> , 2008 , 256, 1853-1867	3.9	174
19	Wood density in forests of Brazil's Arc of deforestation—Implications for biomass and flux of carbon from land-use change in Amazonia. <i>Forest Ecology and Management</i> , 2007 , 248, 119-135	3.9	91
18	Volume and biomass of trees in central Amazonia: influence of irregularly shaped and hollow trunks. <i>Forest Ecology and Management</i> , 2006 , 227, 14-21	3.9	37

17	Wood density in dense forest in central Amazonia, Brazil. <i>Forest Ecology and Management</i> , 2005 , 208, 261-286	3.9	93
16	Pervasive Alteration of Tree Communities in Undisturbed Amazonian Forests ¹ . <i>Biotropica</i> , 2005 , 37, 158-159	2.9	20
15	Tree allometry and improved estimation of carbon stocks and balance in tropical forests. <i>Oecologia</i> , 2005 , 145, 87-99	2.9	1855
14	Evidence for Late Quaternary aeolian activity in the Roraima-Guyana Region. <i>Catena</i> , 2001 , 43, 63-80	5.8	21
13	Floristic relationships of terra firme forests in the Brazilian Amazon. <i>Forest Ecology and Management</i> , 2001 , 146, 169-179	3.9	29
12	Mapping land cover types in the Amazon Basin using 1 km JERS-1 mosaic. <i>International Journal of Remote Sensing</i> , 2000 , 21, 1201-1234	3.1	61
11	Allometric regressions for improved estimate of secondary forest biomass in the central Amazon. <i>Forest Ecology and Management</i> , 1999 , 117, 149-167	3.9	241
10	Spectral changes with leaf aging in Amazon caatinga. <i>Trees - Structure and Function</i> , 1998 , 12, 315	2.6	106
9	Spatial patterns of hydrology, geomorphology, and vegetation on the floodplain of the Amazon river in Brazil from a remote sensing perspective. <i>Geomorphology</i> , 1995 , 13, 215-232	4.3	182
8	RESERVA FLORESTAL DUCKE: DIVERSIDADE E COMPOSIÇÃO DA FLORA VASCULAR. <i>Acta Amazonica</i> , 1994 , 24, 19-30	0.8	17
7	Natural forest disturbance and change in the Brazilian Amazon. <i>International Journal of Remote Sensing</i> , 1994 , 10, 105-125		104
6	Forest Disturbance by Large Blowdowns in the Brazilian Amazon. <i>Ecology</i> , 1994 , 75, 853-858	4.6	165
5	Endemism centres, refugia and botanical collection density in Brazilian Amazonia. <i>Nature</i> , 1990 , 345, 714-716	50.4	305
4	Distributional and ecological notes on <i>Polygonanthus amazonicus</i> Ducke. <i>Acta Amazonica</i> , 1985 , 15, 63-70	0.8	2
3	Observations on the pollination of <i>Rhabdodendron macrophyllum</i> (Spruce ex Benth.) Huber.. <i>Acta Amazonica</i> , 1984 , 14, 411-426	0.8	3
2	Projeto Flora Amazônica: eight years of binational botanical expeditions. <i>Acta Amazonica</i> , 1984 , 14, 5-30	0.8	8
1	The ethnobotany of the Paumotu Indians. <i>Economic Botany</i> , 1977 , 31, 129-139	1.7	19