Luiz E O C Arago

List of Publications by Citations

176 papers	11,152 citations	52 h-index	102 g-index
191 ext. papers	13,697 ext. citations	8.3 avg, IF	6.07 L-index

#	Paper	IF	Citations
176	Drought sensitivity of the Amazon rainforest. *Science*, **2009**, 323, 1344-7	33.3	1213
175	Exploring the likelihood and mechanism of a climate-change-induced dieback of the Amazon rainforest. *Proceedings of the National Academy of Sciences of the United States of America*, **2009**, 106, 20610-5	11.5	628
174	Long-term decline of the Amazon carbon sink. *Nature*, **2015**, 519, 344-8	50.4	583
173	Anthropogenic disturbance in tropical forests can double biodiversity loss from deforestation. *Nature*, **2016**, 535, 144-7	50.4	502
172	Drought-mortality relationships for tropical forests. *New Phytologist*, **2010**, 187, 631-46	9.8	400
171	21st Century drought-related fires counteract the decline of Amazon deforestation carbon emissions. *Nature Communications*, **2018**, 9, 536	17.4	304
170	Tree height integrated into pantropical forest biomass estimates. *Biogeosciences*, **2012**, 9, 3381-3403	4.6	289
169	Persistent effects of a severe drought on Amazonian forest canopy. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, 565-70	11.5	264
168	Net primary productivity allocation and cycling of carbon along a tropical forest elevational transect in the Peruvian Andes. *Global Change Biology*, **2010**, 16, 3176-3192	11.4	262
167	The incidence of fire in Amazonian forests with implications for REDD. *Science*, **2010**, 328, 1275-8	33.3	218
166	Markedly divergent estimates of Amazon forest carbon density from ground plots and satellites. *Global Ecology and Biogeography*, **2014**, 23, 935-946	6.1	205
165	Regional and seasonal patterns of litterfall in tropical South America. *Biogeosciences*, **2010**, 7, 43-55	4.6	190
164	Environment and Development. Brazil@ environmental leadership at risk. *Science*, **2014**, 346, 706-7	33.3	188
163	Above- and below-ground net primary productivity across ten Amazonian forests on contrasting soils. *Biogeosciences*, **2009**, 6, 2759-2778	4.6	182
162	Diversity and carbon storage across the tropical forest biome. *Scientific Reports*, **2017**, 7, 39102	4.9	177
161	Compositional response of Amazon forests to climate change. *Global Change Biology*, **2019**, 25, 39-56	11.4	158
160	Hyperdominance in Amazonian forest carbon cycling. *Nature Communications*, **2015**, 6, 6857	17.4	157

159	Environmental change and the carbon balance of Amazonian forests. *Biological Reviews*, **2014**, 89, 913-31	13.5	150
158	Amazon forest response to repeated droughts. *Global Biogeochemical Cycles*, **2016**, 30, 964-982	5.9	149
157	Remote sensing detection of droughts in Amazonian forest canopies. *New Phytologist*, **2010**, 187, 733-50	9.8	135
156	Toward an integrated monitoring framework to assess the effects of tropical forest degradation and recovery on carbon stocks and biodiversity. *Global Change Biology*, **2016**, 22, 92-109	11.4	126
155	The linkages between photosynthesis, productivity, growth and biomass in lowland Amazonian forests. *Global Change Biology*, **2015**, 21, 2283-95	11.4	105
154	A social and ecological assessment of tropical land uses at multiple scales: the Sustainable Amazon Network. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2013**, 368, 20120166	5.8	102
153	Variation in stem mortality rates determines patterns of above-ground biomass in Amazonian forests: implications for dynamic global vegetation models. *Global Change Biology*, **2016**, 22, 3996-4013	11.4	99
152	Amazonia as a carbon source linked to deforestation and climate change. *Nature*, **2021**, 595, 388-393	50.4	99
151	The Brazilian Amazon deforestation rate in 2020 is the greatest of the decade. *Nature Ecology and Evolution*, **2021**, 5, 144-145	12.3	97
150	Assessment of the MODIS global evapotranspiration algorithm using eddy covariance measurements and hydrological modelling in the Rio Grande basin. *Hydrological Sciences Journal*, **2013**, 58, 1658-1676	3.5	96
149	Shifts in plant respiration and carbon use efficiency at a large-scale drought experiment in the eastern Amazon. *New Phytologist*, **2010**, 187, 608-21	9.8	93
148	Long-term thermal sensitivity of Earth's tropical forests. *Science*, **2020**, 368, 869-874	33.3	92
147	Pervasive Rise of Small-scale Deforestation in Amazonia. *Scientific Reports*, **2018**, 8, 1600	4.9	87
146	Factors controlling spatio-temporal variation in carbon dioxide efflux from surface litter, roots, and soil organic matter at four rain forest sites in the eastern Amazon. *Journal of Geophysical Research*, **2007**, 112, n/a-n/a		82
145	The critical importance of considering fire in REDD+ programs. *Biological Conservation*, **2012**, 154, 1-8	6.2	81
144	Hydrological niche segregation defines forest structure and drought tolerance strategies in a seasonal Amazon forest. *Journal of Ecology*, **2019**, 107, 318-333	6	79
143	Relationships between phenology, radiation and precipitation in the Amazon region. *Global Change Biology*, **2011**, 17, 2245-2260	11.4	79
142	Climate seasonality limits leaf carbon assimilation and wood productivity in tropical forests. *Biogeosciences*, **2016**, 13, 2537-2562	4.6	79

141	Tree species classification in tropical forests using visible to shortwave infrared WorldView-3 images and texture analysis. *ISPRS Journal of Photogrammetry and Remote Sensing*, **2019**, 149, 119-131	11.8	74
140	The productivity, metabolism and carbon cycle of two lowland tropical forest plots in south-western Amazonia, Peru. *Plant Ecology and Diversity*, **2014**, 7, 85-105	2.2	73
139	Using the U-net convolutional network to map forest types and disturbance in the Atlantic rainforest with very high resolution images. *Remote Sensing in Ecology and Conservation*, **2019**, 5, 360-375	5.3	71
138	Second rate or a second chance? Assessing biomass and biodiversity recovery in regenerating Amazonian forests. *Global Change Biology*, **2018**, 24, 5680-5694	11.4	71
137	The carbon balance of South America: a review of the status, decadal trends and main determinants. *Biogeosciences*, **2012**, 9, 5407-5430	4.6	70
136	The variation of productivity and its allocation along a tropical elevation gradient: a whole carbon budget perspective. *New Phytologist*, **2017**, 214, 1019-1032	9.8	68
135	Land use and land cover changes determine the spatial relationship between fire and deforestation in the Brazilian Amazon. *Applied Geography*, **2012**, 34, 239-246	4.4	66
134	Drought impacts on children? respiratory health in the Brazilian Amazon. *Scientific Reports*, **2014**, 4, 3726	4.9	65
133	Carbon-focused conservation may fail to protect the most biodiverse tropical forests. *Nature Climate Change*, **2018**, 8, 744-749	21.4	64
132	A MODIS-Based Energy Balance to Estimate Evapotranspiration for Clear-Sky Days in Brazilian Tropical Savannas. *Remote Sensing*, **2012**, 4, 703-725	5	63
131	Variations in Amazon forest productivity correlated with foliar nutrients and modelled rates of photosynthetic carbon supply. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2011**, 366, 3316-29	5.8	61
130	A method for extracting plant roots from soil which facilitates rapid sample processing without compromising measurement accuracy. *New Phytologist*, **2007**, 174, 697-703	9.8	57
129	Productivity and carbon allocation in a tropical montane cloud forest in the Peruvian Andes. *Plant Ecology and Diversity*, **2014**, 7, 107-123	2.2	55
128	Pre-Columbian earth-builders settled along the entire southern rim of the Amazon. *Nature Communications*, **2018**, 9, 1125	17.4	54
127	Net biome production of the Amazon Basin in the 21st century. *Global Change Biology*, **2010**, 16, 2062-2075	11.4	54
126	Individual tree crown delineation in a highly diverse tropical forest using very high resolution satellite images. *ISPRS Journal of Photogrammetry and Remote Sensing*, **2018**, 145, 362-377	11.8	54
125	Effects of climate and land-use change scenarios on fire probability during the 21st century in the Brazilian Amazon. *Global Change Biology*, **2019**, 25, 2931-2946	11.4	52
124	Drought-induced Amazonian wildfires instigate a decadal-scale disruption of forest carbon dynamics. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2018**, 373,	5.8	51

123	Disentangling the contribution of multiple land covers to fire-mediated carbon emissions in Amazonia during the 2010 drought. *Global Biogeochemical Cycles*, **2015**, 29, 1739-1753	5.9	50
122	Deforestation-Induced Fragmentation Increases Forest Fire Occurrence in Central Brazilian Amazonia. *Forests*, **2018**, 9, 305	2.8	49
121	Fine root dynamics along an elevational gradient in tropical Amazonian and Andean forests. *Global Biogeochemical Cycles*, **2013**, 27, 252-264	5.9	47
120	Climate drivers of the Amazon forest greening. *PLoS ONE*, **2017**, 12, e0180932	3.7	46
119	Seasonal and drought-related changes in leaf area profiles depend on height and light environment in an Amazon forest. *New Phytologist*, **2019**, 222, 1284-1297	9.8	44
118	Toward accounting for ecoclimate teleconnections: intra- and inter-continental consequences of altered energy balance after vegetation change. *Landscape Ecology*, **2016**, 31, 181-194	4.3	44
117	Ecosystem respiration and net primary productivity after 8â10 years of experimental through-fall reduction in an eastern Amazon forest. *Plant Ecology and Diversity*, **2014**, 7, 7-24	2.2	43
116	Quantifying immediate carbon emissions from El Niô-mediated wildfires in humid tropical forests. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2018**, 373,	5.8	43
115	Vulnerability of Amazonian forests to repeated droughts. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2018**, 373,	5.8	41
114	The production, allocation and cycling of carbon in a forest on fertile terra preta soil in eastern Amazonia compared with a forest on adjacent infertile soil. *Plant Ecology and Diversity*, **2014**, 7, 41-53	2.2	40
113	Seasonal production, allocation and cycling of carbon in two mid-elevation tropical montane forest plots in the Peruvian Andes. *Plant Ecology and Diversity*, **2014**, 7, 125-142	2.2	38
112	Long-term (1990-2019) monitoring of forest cover changes in the humid tropics. *Science Advances*, **2021**, 7,	14.3	38
111	Influence of landscape heterogeneity on spatial patterns of wood productivity, wood specific density and above ground biomass in Amazonia. *Biogeosciences*, **2009**, 6, 1883-1902	4.6	37
110	Above- and below-ground net primary productivity across ten Amazonian forests on contrasting soils		37
109	Integrated terrestrial-freshwater planning doubles conservation of tropical aquatic species. *Science* , **2020**, 370, 117-121	33.3	36
108	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
107	Seasonal and interannual assessment of cloud cover and atmospheric constituents across the Amazon (2000â2015): Insights for remote sensing and climate analysis. *ISPRS Journal of Photogrammetry and Remote Sensing*, **2018**, 145, 309-327	11.8	35
106	Using learning networks to understand complex systems: a case study of biological, geophysical and social research in the Amazon. *Biological Reviews*, **2011**, 86, 457-74	13.5	34

105	Impacts of experimentally imposed drought on leaf respiration and morphology in an Amazon rain forest. *Functional Ecology*, **2010**, 24, 524-533	5.6	33
104	Persistent collapse of biomass in Amazonian forest edges following deforestation leads to unaccounted carbon losses. *Science Advances*, **2020**, 6,	14.3	33
103	Extensive 21st-Century Woody Encroachment in South America Savanna. *Geophysical Research Letters*, **2019**, 46, 6594-6603	4.9	32
102	Can MODIS EVI monitor ecosystem productivity in the Amazon rainforest?. *Geophysical Research Letters*, **2014**, 41, 7176-7183	4.9	32
101	Simulating forest productivity along a neotropical elevational transect: temperature variation and carbon use efficiency. *Global Change Biology*, **2012**, 18, 2882-98	11.4	30
100	Conversion from forests to pastures in the Colombian Amazon leads to contrasting soil carbon dynamics depending on land management practices. *Global Change Biology*, **2016**, 22, 3503-17	11.4	30
99	Hydraulic traits explain differential responses of Amazonian forests to the 2015 El Niô-induced drought. *New Phytologist*, **2019**, 223, 1253-1266	9.8	29
98	Spatial trends in leaf size of Amazonian rainforest trees. *Biogeosciences*, **2009**, 6, 1563-1576	4.6	29
97	A UAVâlidar system to map Amazonian rainforest and its ancient landscape transformations. *International Journal of Remote Sensing*, **2017**, 38, 2313-2330	3.1	28
96	Climatic and anthropogenic drivers of northern Amazon fires during the 2015-2016 El Niô event **2017**, 27, 2514-2527		28
95	Tree Crown Delineation Algorithm Based on a Convolutional Neural Network. *Remote Sensing*, **2020** , 12, 1288	5	27
94	Fire Responses to the 2010 and 2015/2016 Amazonian Droughts. *Frontiers in Earth Science*, **2019**, 7,	3.5	26
93	Large-scale heterogeneity of Amazonian phenology revealed from 26-year long AVHRR/NDVI time-series. *Environmental Research Letters*, **2013**, 8, 024011	6.2	26
92	Recent deforestation drove the spike in Amazonian fires. *Environmental Research Letters*, **2020**, 15, 121003	6.1	26
91	Multiple phosphorus acquisition strategies adopted by fine roots in low-fertility soils in Central Amazonia. *Plant and Soil*, **2020**, 450, 49-63	4.2	26
90	Disruption of hydroecological equilibrium in southwest Amazon mediated by drought. *Geophysical Research Letters*, **2015**, 42, 7546-7553	4.9	25
89	Large carbon sink potential of secondary forests in the Brazilian Amazon to mitigate climate change. *Nature Communications*, **2021**, 12, 1785	17.4	25
88	Consistency of vegetation index seasonality across the Amazon rainforest. *International Journal of Applied Earth Observation and Geoinformation*, **2016**, 52, 42-53	7.3	24

87	Tree mode of death and mortality risk factors across Amazon forests. *Nature Communications*, **2020**, 11, 5515	17.4	24
86	Smoke pollution impacts in Amazonia. *Science*, **2020**, 369, 634-635	33.3	24
85	Benchmark maps of 33 years of secondary forest age for Brazil. *Scientific Data*, **2020**, 7, 269	8.2	23
84	Life cycle of bamboo in the southwestern Amazon and its relation to fire events. *Biogeosciences*, **2018**, 15, 6087-6104	4.6	23
83	Mapping Atlantic rainforest degradation and regeneration history with indicator species using convolutional network. *PLoS ONE*, **2020**, 15, e0229448	3.7	20
82	Seasonality of above-ground net primary productivity along an Andean altitudinal transect in Peru. *Journal of Tropical Ecology*, **2014**, 30, 503-519	1.3	20
81	Are compound leaves an adaptation to seasonal drought or to rapid growth? Evidence from the Amazon rain forest. *Global Ecology and Biogeography*, **2010**, 19, 852-862	6.1	20
80	Spatial distribution and functional significance of leaf lamina shape in Amazonian forest trees. *Biogeosciences*, **2009**, 6, 1577-1590	4.6	20
79	Estimating the multi-decadal carbon deficit of burned Amazonian forests. *Environmental Research Letters*, **2020**, 15, 114023	6.2	20
78	The Salinity Structure of the Amazon River Plume Drives Spatiotemporal Variation of Oceanic Primary Productivity. *Journal of Geophysical Research G: Biogeosciences*, **2019**, 124, 147-165	3.7	20
77	An integrated remote sensing and GIS approach for monitoring areas affected by selective logging: A case study in northern Mato Grosso, Brazilian Amazon. *International Journal of Applied Earth Observation and Geoinformation*, **2017**, 61, 70-80	7.3	19
76	Translating Fire Impacts in Southwestern Amazonia into Economic Costs. *Remote Sensing*, **2019**, 11, 764	5	19
75	Drivers of Fire Anomalies in the Brazilian Amazon: Lessons Learned from the 2019 Fire Crisis. *Land*, **2020**, 9, 516	3.5	19
74	Seeing the woods through the saplings: Using wood density to assess the recovery of human-modified Amazonian forests. *Journal of Ecology*, **2018**, 106, 2190-2203	6	19
73	Increased Wildfire Risk Driven by Climate and Development Interactions in the Bolivian Chiquitania, Southern Amazonia. *PLoS ONE*, **2016**, 11, e0161323	3.7	19
72	Post-Fire Changes in Forest Biomass Retrieved by Airborne LiDAR in Amazonia. *Remote Sensing*, **2016**, 8, 839	5	19
71	The extent of 2014 forest fragmentation in the Brazilian Amazon. *Regional Environmental Change*, **2016**, 16, 2485-2490	4.3	18
70	Fraction images for monitoring intra-annual phenology of different vegetation physiognomies in Amazonia. *International Journal of Remote Sensing*, **2011**, 32, 387-408	3.1	18

69	Reframing tropical savannization: linking changes in canopy structure to energy balance alterations that impact climate. *Ecosphere*, **2020**, 11, e03231	3.1	18
68	A successful prediction of the record CO rise associated with the 2015/2016 El Niè. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2018**, 373,	5.8	18
67	Evaluation of MODIS-based estimates of water-use efficiency in Amazonia. *International Journal of Remote Sensing*, **2017**, 38, 5291-5309	3.1	17
66	Quantifying Canopy Tree Loss and Gap Recovery in Tropical Forests under Low-Intensity Logging Using VHR Satellite Imagery and Airborne LiDAR. *Remote Sensing*, **2019**, 11, 817	5	17
65	Assessing above-ground woody debris dynamics along a gradient of elevation in Amazonian cloud forests in Peru: balancing above-ground inputs and respiration outputs. *Plant Ecology and Diversity*, **2014**, 7, 143-160	2.2	17
64	Use of MODIS Sensor Images Combined with Reanalysis Products to Retrieve Net Radiation in Amazonia. *Sensors*, **2016**, 16,	3.8	17
63	Potential land availability for agricultural expansion in the Brazilian Amazon. *Land Use Policy*, **2015**, 49, 35-42	5.6	16
62	A social and ecological assessment of tropical land uses at multiple scales: the Sustainable Amazon Network. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2013**, 368, 20130307	5.8	15
61	Changes in Amazonian Forest Biomass, Dynamics, and Composition, 1980â2002. *Geophysical Monograph Series*, **2009**, 355-372	1.1	15
60	Spatiotemporal Rainfall Trends in the Brazilian Legal Amazon between the Years 1998 and 2015. *Water (Switzerland)*, **2018**, 10, 1220	3	15
59	Tracking the impacts of El Niè drought and fire in human-modified Amazonian forests. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118,	11.5	15
58	Taking the pulse of Earth tropical forests using networks of highly distributed plots. *Biological Conservation*, **2021**, 260, 108849	6.2	15
57	Improving the spatial-temporal analysis of Amazonian fires. *Global Change Biology*, **2021**, 27, 469-471	11.4	14
56	Rapid responses of root traits and productivity to phosphorus and cation additions in a tropical lowland forest in Amazonia. *New Phytologist*, **2021**, 230, 116-128	9.8	14
55	New insights into the variability of the tropical land carbon cycle from the El Niè of 2015/2016. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2018**, 373,	5.8	14
54	Legacy of Amazonian Dark Earth soils on forest structure and species composition. *Global Ecology and Biogeography*, **2020**, 29, 1458-1473	6.1	13
53	Detec de cicatrizes de reas queimadas baseada no modelo linear de mistura espectral e imagens ndice de vegeta utilizando dados multitemporais do sensor MODIS/TERRA no estado do Mato Grosso, Amaznia brasileira. *Acta Amazonica*, **2005**, 35, 445-456	0.8	13
52	Geometry by Design: Contribution of Lidar to the Understanding of Settlement Patterns of the Mound Villages in SW Amazonia. *Journal of Computer Applications in Archaeology*, **2020**, 3, 151-169	2.5	13

51	A globally deployable strategy for co-development of adaptation preferences to sea-level rise: the public participation case of Santos, Brazil. *Natural Hazards*, **2017**, 88, 39-53	3	12
50	A large-scale assessment of plant dispersal mode and seed traits across human-modified Amazonian forests. *Journal of Ecology*, **2020**, 108, 1373-1385	6	12
49	The Role of the Amazon River Plume on the Intensification of the Hydrological Cycle. *Geophysical Research Letters*, **2019**, 46, 12221-12229	4.9	12
48	Regional Mapping and Spatial Distribution Analysis of Canopy Palms in an Amazon Forest Using Deep Learning and VHR Images. *Remote Sensing*, **2020**, 12, 2225	5	12
47	Intercomparison of Burned Area Products and Its Implication for Carbon Emission Estimations in the Amazon. *Remote Sensing*, **2020**, 12, 3864	5	12
46	Large-scale commodity agriculture exacerbates the climatic impacts of Amazonian deforestation. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118,	11.5	12
45	Vegetation chlorophyll estimates in the Amazon from multi-angle MODIS observations and canopy reflectance model. *International Journal of Applied Earth Observation and Geoinformation*, **2017**, 58, 278-287	7.3	11
44	Effects of land-cover changes on the partitioning of surface energy and water fluxes in Amazonia using high-resolution satellite imagery. *Ecohydrology*, **2019**, 12, e2126	2.5	11
43	Developing Cost-Effective Field Assessments of Carbon Stocks in Human-Modified Tropical Forests. *PLoS ONE*, **2015**, 10, e0133139	3.7	11
42	A multi-data assessment of land use and land cover emissions from Brazil during 2000â2019. *Environmental Research Letters*, **2021**, 16, 074004	6.2	11
41	3D Faade Labeling over Complex Scenarios: A Case Study Using Convolutional Neural Network and Structure-From-Motion. *Remote Sensing*, **2018**, 10, 1435	5	11
40	Retrieving Secondary Forest Aboveground Biomass from Polarimetric ALOS-2 PALSAR-2 Data in the Brazilian Amazon. *Remote Sensing*, **2019**, 11, 59	5	10
39	Optimizing Near Real-Time Detection of Deforestation on Tropical Rainforests Using Sentinel-1 Data. *Remote Sensing*, **2020**, 12, 3922	5	9
38	Conversion from forests to pastures in the Colombian Amazon leads to differences in dead wood dynamics depending on land management practices. *Journal of Environmental Management*, **2016**, 171, 42-51	7.9	9
37	Drought-driven wildfire impacts on structure and dynamics in a wet Central Amazonian forest. *Proceedings of the Royal Society B: Biological Sciences*, **2021**, 288, 20210094	4.4	9
36	Land availability for sugarcane derived jet-biofuels in S Pauloâ Brazil. *Land Use Policy*, **2018**, 70, 256-262	5.6	9
35	Large-scale variations in the dynamics of Amazon forest canopy gaps from airborne lidar data and opportunities for tree mortality estimates. *Scientific Reports*, **2021**, 11, 1388	4.9	9
34	Soil, land use time, and sustainable intensification of agriculture in the Brazilian Cerrado region. *Environmental Monitoring and Assessment*, **2017**, 189, 70	3.1	8

33	Environmental Controls on the Riverine Export of Dissolved Black Carbon. *Global Biogeochemical Cycles*, **2019**, 33, 849-874	5.9	8
32	Chlorophyll Fluorescence Data Reveals Climate-Related Photosynthesis Seasonality in Amazonian Forests. *Remote Sensing*, **2017**, 9, 1275	5	8
31	Burning in southwestern Brazilian Amazonia, 2016-2019. *Journal of Environmental Management*, **2021**, 286, 112189	7.9	8
30	Impacts of Climate Extremes in Brazil: The Development of a Web Platform for Understanding Long-Term Sustainability of Ecosystems and Human Health in Amazonia (PULSE-Brazil). *Bulletin of the American Meteorological Society*, **2016**, 97, 1341-1346	6.1	8
29	Amazonian forest degradation must be incorporated into the COP26 agenda. *Nature Geoscience*, **2021**, 14, 634-635	18.3	8
28	Assessment of Texture Features for Bermudagrass (Cynodon dactylon) Detection in Sugarcane Plantations. *Drones*, **2019**, 3, 36	5.4	7
27	Drivers of metacommunity structure diverge for common and rare Amazonian tree species. *PLoS ONE*, **2017**, 12, e0188300	3.7	7
26	Development of a Point-based Method for Map Validation and Confidence Interval Estimation: A Case Study of Burned Areas in Amazonia. *Journal of Remote Sensing & GIS*, **2017**, 06,		6
25	Seasonal changes in plant-water relations influence patterns of leaf display in Miombo woodlands: evidence of water conservative strategies. *Tree Physiology*, **2019**, 39, 104-112	4.2	6
24	Fractal properties of forest fires in Amazonia as a basis for modelling pan-tropical burnt area. *Biogeosciences*, **2014**, 11, 1449-1459	4.6	6
23	Comment on "The incidence of fire in Amazonian forests with implications for REDD". *Science*, **2010** , 330, 1627; author reply 1627	33.3	6
22	The Production, Storage, and Flow of Carbon in Amazonian Forests. *Geophysical Monograph Series*, **2009**, 337-354	1.1	6
21	Interannual Variability of Carbon Uptake of Secondary Forests in the Brazilian Amazon (2004-2014). *Global Biogeochemical Cycles*, **2020**, 34, e2019GB006396	5.9	5
20	Determining a Threshold to Delimit the Amazonian Forests from the Tree Canopy Cover 2000 GFC Data. *Sensors*, **2019**, 19,	3.8	5
19	Determination of Region of Influence Obtained by Aircraft Vertical Profiles Using the Density of Trajectories from the HYSPLIT Model. *Atmosphere*, **2020**, 11, 1073	2.7	4
18	Deforestation and land use and land cover changes in protected areas of the Brazilian Cerrado: impacts on the fire-driven emissions of fine particulate aerosols pollutants. *Remote Sensing Letters*, **2021**, 12, 79-92	2.3	4
17	Fires in Amazonia. *Ecological Studies*, **2016**, 301-329	1.1	3
16	An alert system for Seasonal Fire probability forecast for South American Protected Areas. *Climate Resilience and Sustainability*,		3

15	Quantifying Post-Fire Changes in the Aboveground Biomass of an Amazonian Forest Based on Field and Remote Sensing Data. *Remote Sensing*, **2022**, 14, 1545	5	3
14	. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, **2019**, 12, 2236-2243	4.7	2
13	Spatial patterns of the canopy stress during 2005 drought in Amazonia **2007**,		2
12	Amazon methane budget derived from multi-year airborne observations highlights regional variations in emissions. *Communications Earth & Environment*, **2021**, 2,	6.1	2
11	Quad-pol advanced land observing satellite/phased array L-band synthetic aperture radar-2 (ALOS/PALSAR-2) data for modelling secondary forest above-ground biomass in the central Brazilian amazon. *International Journal of Remote Sensing*, **2021**, 42, 4985-5009	3.1	2
10	Legacy Effects Following Fire on Surface Energy, Water and Carbon Fluxes in Mature Amazonian Forests. *Journal of Geophysical Research G: Biogeosciences*, **2021**, 126, e2020JG005833	3.7	2
9	Forest structure and degradation drive canopy gap sizes across the Brazilian Amazon		2
8	The role of stand structure and palm abundance in predicting above-ground biomass at local scale in southern Amazonia. *Plant Ecology and Diversity*, **2016**, 9, 409-420	2.2	2
7	Dinâmica das Queimadas no Cerrado do Estado do Maranhão, Nordeste do Brasil **2018**, 35, 1-14		2
6	Relationship between Biomass Burning Emissions and Deforestation in Amazonia over the Last Two Decades. *Forests*, **2021**, 12, 1217	2.8	2
5	Increasing bamboo dominance in southwestern Amazon forests following intensification of drought-mediated fires. *Forest Ecology and Management*, **2021**, 490, 119139	3.9	1
4	The 2020 Brazilian Pantanal fires. *Anais Da Academia Brasileira De Ciencias*, **2021**, 93, e20210077	1.4	1
3	Fragmentation-Driven Divergent Trends in Burned Area in Amazonia and Cerrado. *Frontiers in Forests and Global Change*, **2022**, 5,	3.7	1
2	Spatio-temporal variation in dry season determines the Amazonian fire calendar. *Environmental Research Letters*,	6.2	0
1	Forest Fragmentation and Fires in the Eastern Brazilian Amazonâ€Maranhão State, Brazil. *Fire*, **2022**, 5, 77	2.4	0