

# Natalia Restrepo-Coupe

## 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.

66

papers

2,983

citations

30

h-index

54

g-index

81

ext. papers

3,671

ext. citations

7.9

avg, IF

4.5

L-index

#	Paper	IF	Citations
66	The FLUXNET2015 dataset and the ONEFlux processing pipeline for eddy covariance data. <i>Scientific Data</i> , <b>2020</b> , 7, 225	8.2	256
65	Leaf development and demography explain photosynthetic seasonality in Amazon evergreen forests. <i>Science</i> , <b>2016</b> , 351, 972-6	33.3	252
64	What drives the seasonality of photosynthesis across the Amazon basin? A cross-site analysis of eddy flux tower measurements from the Brasil flux network. <i>Agricultural and Forest Meteorology</i> , <b>2013</b> , 182-183, 128-144	5.8	205
63	Patterns of water and heat flux across a biome gradient from tropical forest to savanna in Brazil. <i>Journal of Geophysical Research</i> , <b>2009</b> , 114,		179
62	Spatial patterns and temporal dynamics in savanna vegetation phenology across the North Australian Tropical Transect. <i>Remote Sensing of Environment</i> , <b>2013</b> , 139, 97-115	13.2	141
61	An introduction to the Australian and New Zealand flux tower network OzFlux. <i>Biogeosciences</i> , <b>2016</b> , 13, 5895-5916	4.6	119
60	Net ecosystem production in a temperate pine plantation in southeastern Canada. <i>Agricultural and Forest Meteorology</i> , <b>2005</b> , 128, 223-241	5.8	99
59	Dry-season greening of Amazon forests. <i>Nature</i> , <b>2016</b> , 531, E4-5	50.4	94
58	Mechanisms of water supply and vegetation demand govern the seasonality and magnitude of evapotranspiration in Amazonia and Cerrado. <i>Agricultural and Forest Meteorology</i> , <b>2014</b> , 191, 33-50	5.8	81
57	Do dynamic global vegetation models capture the seasonality of carbon fluxes in the Amazon basin? A data-model intercomparison. <i>Global Change Biology</i> , <b>2017</b> , 23, 191-208	11.4	77
56	Multiple site tower flux and remote sensing comparisons of tropical forest dynamics in Monsoon Asia. <i>Agricultural and Forest Meteorology</i> , <b>2008</b> , 148, 748-760	5.8	72
55	Land surface phenological response to decadal climate variability across Australia using satellite remote sensing. <i>Biogeosciences</i> , <b>2014</b> , 11, 5181-5198	4.6	70
54	Partitioning controls on Amazon forest photosynthesis between environmental and biotic factors at hourly to interannual timescales. <i>Global Change Biology</i> , <b>2017</b> , 23, 1240-1257	11.4	66
53	Fires increase Amazon forest productivity through increases in diffuse radiation. <i>Geophysical Research Letters</i> , <b>2015</b> , 42, 4654-4662	4.9	65
52	Variations in Amazon forest productivity correlated with foliar nutrients and modelled rates of photosynthetic carbon supply. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , <b>2011</b> , 366, 3316-29	5.8	61
51	Soil moisture controls on phenology and productivity in a semi-arid critical zone. <i>Science of the Total Environment</i> , <b>2016</b> , 568, 1227-1237	10.2	56
50	A spatially explicit land surface phenology data product for science, monitoring and natural resources management applications. <i>Environmental Modelling and Software</i> , <b>2015</b> , 64, 191-204	5.2	55

49	Reviews and syntheses: Australian vegetation phenology: new insights from satellite remote sensing and digital repeat photography. <i>Biogeosciences</i> , <b>2016</b> , 13, 5085-5102	4.6	55
48	The importance of interacting climate modes on Australia's contribution to global carbon cycle extremes. <i>Scientific Reports</i> , <b>2016</b> , 6, 23113	4.9	50
47	Overview of the Large-Scale Biosphere-Atmosphere Experiment in Amazonia Data Model Intercomparison Project (LBA-DMIP). <i>Agricultural and Forest Meteorology</i> , <b>2013</b> , 182-183, 111-127	5.8	49
46	Productivity and evapotranspiration of two contrasting semiarid ecosystems following the 2011 global carbon land sink anomaly. <i>Agricultural and Forest Meteorology</i> , <b>2016</b> , 220, 151-159	5.8	49
45	Parameterization of an ecosystem light-use-efficiency model for predicting savanna GPP using MODIS EVI. <i>Remote Sensing of Environment</i> , <b>2014</b> , 154, 253-271	13.2	45
44	Seasonal and drought-related changes in leaf area profiles depend on height and light environment in an Amazon forest. <i>New Phytologist</i> , <b>2019</b> , 222, 1284-1297	9.8	44
43	Age-dependent leaf physiology and consequences for crown-scale carbon uptake during the dry season in an Amazon evergreen forest. <i>New Phytologist</i> , <b>2018</b> , 219, 870-884	9.8	43
42	Resolving systematic errors in estimates of net ecosystem exchange of CO <sub>2</sub> and ecosystem respiration in a tropical forest biome. <i>Agricultural and Forest Meteorology</i> , <b>2008</b> , 148, 1266-1279	5.8	43
41	Biological processes dominate seasonality of remotely sensed canopy greenness in an Amazon evergreen forest. <i>New Phytologist</i> , <b>2018</b> , 217, 1507-1520	9.8	42
40	Robust dynamics of Amazon dieback to climate change with perturbed ecosystem model parameters. <i>Global Change Biology</i> , <b>2010</b> , 16, 2476	11.4	37
39	Ecosystem heterogeneity and diversity mitigate Amazon forest resilience to frequent extreme droughts. <i>New Phytologist</i> , <b>2018</b> , 219, 914-931	9.8	36
38	Optimum air temperature for tropical forest photosynthesis: mechanisms involved and implications for climate warming. <i>Environmental Research Letters</i> , <b>2017</b> , 12, 054022	6.2	35
37	Spatial partitioning and temporal evolution of Australia's total water storage under extreme hydroclimatic impacts. <i>Remote Sensing of Environment</i> , <b>2016</b> , 183, 43-52	13.2	35
36	Simulating forest productivity along a neotropical elevational transect: temperature variation and carbon use efficiency. <i>Global Change Biology</i> , <b>2012</b> , 18, 2882-98	11.4	30
35	Hydraulic traits explain differential responses of Amazonian forests to the 2015 El Niño-induced drought. <i>New Phytologist</i> , <b>2019</b> , 223, 1253-1266	9.8	29
34	Surface ecophysiological behavior across vegetation and moisture gradients in tropical South America. <i>Agricultural and Forest Meteorology</i> , <b>2013</b> , 182-183, 177-188	5.8	27
33	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> , <b>2013</b> , 182-183, 145-155	5.8	27
32	Energy and water exchanges from a temperate pine plantation forest. <i>Hydrological Processes</i> , <b>2005</b> , 19, 27-49	3.3	27

31	MODIS vegetation products as proxies of photosynthetic potential along a gradient of meteorologically and biologically driven ecosystem productivity. <i>Biogeosciences</i> , <b>2016</b> , 13, 5587-5608	4.6	24
30	Natural and drought scenarios in an east central Amazon forest: Fidelity of the Community Land Model 3.5 with three biogeochemical models. <i>Journal of Geophysical Research</i> , <b>2011</b> , 116,		23
29	Enhanced canopy growth precedes senescence in 2005 and 2010 Amazonian droughts. <i>Remote Sensing of Environment</i> , <b>2018</b> , 211, 26-37	13.2	22
28	Empirical evidence for resilience of tropical forest photosynthesis in a warmer world. <i>Nature Plants</i> , <b>2020</b> , 6, 1225-1230	11.5	22
27	Passive microwave and optical index approaches for estimating surface conductance and evapotranspiration in forest ecosystems. <i>Agricultural and Forest Meteorology</i> , <b>2015</b> , 213, 126-137	5.8	20
26	Do plant species influence soil CO <sub>2</sub> and N <sub>2</sub> O fluxes in a diverse tropical forest?. <i>Journal of Geophysical Research</i> , <b>2010</b> , 115,		19
25	Relative contributions of soil, foliar, and woody tissue respiration to total ecosystem respiration in four pine forests of different ages. <i>Journal of Geophysical Research</i> , <b>2010</b> , 115,		18
24	Surface conductance for evapotranspiration of tropical forests: Calculations, variations, and controls. <i>Agricultural and Forest Meteorology</i> , <b>2019</b> , 275, 317-328	5.8	15
23	Landsat and GRACE observations of arid wetland dynamics in a dryland river system under multi-decadal hydroclimatic extremes. <i>Journal of Hydrology</i> , <b>2016</b> , 543, 818-831	6	15
22	Estimation of latent heat flux over savannah vegetation across the North Australian Tropical Transect from multiple sensors and global meteorological data. <i>Agricultural and Forest Meteorology</i> , <b>2017</b> , 232, 689-703	5.8	15
21	Carbon and greenhouse gas balances in an age sequence of temperate pine plantations. <i>Biogeosciences</i> , <b>2014</b> , 11, 5399-5410	4.6	14
20	Carbon, water and energy exchange dynamics of a young pine plantation forest during the initial fourteen years of growth. <i>Forest Ecology and Management</i> , <b>2018</b> , 410, 12-26	3.9	13
19	Multi-Scale Phenology of Temperate Grasslands: Improving Monitoring and Management With Near-Surface Phenocams. <i>Frontiers in Environmental Science</i> , <b>2019</b> , 7,	4.8	12
18	Carbon exchange in an Amazon forest: from hours to years. <i>Biogeosciences</i> , <b>2018</b> , 15, 4833-4848	4.6	11
17	Cryptic phenology in plants: Case studies, implications, and recommendations. <i>Global Change Biology</i> , <b>2019</b> , 25, 3591-3608	11.4	8
16	Simulation of the Unexpected Photosynthetic Seasonality in Amazonian Evergreen Forests by Using an Improved Diffuse Fraction-Based Light Use Efficiency Model. <i>Journal of Geophysical Research G: Biogeosciences</i> , <b>2017</b> , 122, 3014-3030	3.7	8
15	An introduction to the Australian and New Zealand flux tower network $\text{fDzFlux}$		8
14	Behavior of multitemporal and multisensor passive microwave indices in Southern Hemisphere ecosystems. <i>Journal of Geophysical Research G: Biogeosciences</i> , <b>2014</b> , 119, 2231-2244	3.7	7

13	Estimation of latent heat flux using satellite land surface temperature and a variational data assimilation scheme over a eucalypt forest savanna in Northern Australia. <i>Agricultural and Forest Meteorology</i> , <b>2019</b> , 268, 341-353	5.8	6
12	MODIS vegetation products as proxies of photosynthetic potential: a look across meteorological and biologic driven ecosystem productivity		6
11	Improvement of modeling plant responses to low soil moisture in JULESvn4.9 and evaluation against flux tower measurements. <i>Geoscientific Model Development</i> , <b>2021</b> , 14, 3269-3294	6.3	6
10	Simulation of Water Levels and Water Diversions in a Subtropical Coastal Wetland. <i>Journal of Coastal Research</i> , <b>2006</b> , 222, 339-349	0.6	4
9	Land surface phenological response to decadal climate variability across Australia using satellite remote sensing		4
8	Ecosystem Atmosphere Exchanges of CO <sub>2</sub> in Dense and Open Terra Firme Rainforests in Brazilian Amazonia. <i>Ecological Studies</i> , <b>2016</b> , 149-169	1.1	3
7	Potential Natural Environments Based on Pedological Properties in the Coastal Conurbation of Subtropical Southeast Florida. <i>Journal of Coastal Research</i> , <b>2007</b> , 232, 319-351	0.6	3
6	. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , <b>2019</b> , 12, 2236-2243	4.7	2
5	Improvement of modelling plant responses to low soil moisture in JULESvn4.9 and evaluation against flux tower measurements		2
4	Comparison of the performance of latent heat flux products over southern hemisphere forest ecosystems: estimating latent heat flux error structure using in situ measurements and the triple collocation method. <i>International Journal of Remote Sensing</i> , <b>2018</b> , 39, 6300-6315	3.1	1
3	Hyperspectral assessments of condition and species composition of Australian grasslands <b>2013</b> ,		1
2	Understanding water and energy fluxes in the Amazonia: Lessons from an observation-model intercomparison. <i>Global Change Biology</i> , <b>2021</b> , 27, 1802-1819	11.4	0
1	Accurate Simulation of Both Sensitivity and Variability for Amazonian Photosynthesis: Is It Too Much to Ask?. <i>Journal of Advances in Modeling Earth Systems</i> , <b>2021</b> , 13, e2021MS002555	7.1	0