

Yann Nouvellon

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.

80
papers

4,581
citations

38
h-index

67
g-index

88
ext. papers

5,711
ext. citations

5.6
avg, IF

4.84
L-index

#	Paper	IF	Citations
80	TRY plant trait database - enhanced coverage and open access. <i>Global Change Biology</i> , 2020 , 26, 119-188	11.4	399
79	The FLUXNET2015 dataset and the ONEFlux processing pipeline for eddy covariance data. <i>Scientific Data</i> , 2020 , 7, 225	8.2	256
78	Integrating genetic and silvicultural strategies to minimize abiotic and biotic constraints in Brazilian eucalypt plantations. <i>Forest Ecology and Management</i> , 2013 , 301, 6-27	3.9	223
77	Biogeochemical cycles of nutrients in tropical Eucalyptus plantations. <i>Forest Ecology and Management</i> , 2010 , 259, 1771-1785	3.9	182
76	The land-atmosphere water flux in the tropics. <i>Global Change Biology</i> , 2009 , 15, 2694-2714	11.4	169
75	Drought controls over conductance and assimilation of a Mediterranean evergreen ecosystem: scaling from leaf to canopy. <i>Global Change Biology</i> , 2003 , 9, 1813-1824	11.4	167
74	Tamm Review: Influence of forest management activities on soil organic carbon stocks: A knowledge synthesis. <i>Forest Ecology and Management</i> , 2020 , 466, 118127	3.9	140
73	Spatial and temporal variations of soil respiration in a Eucalyptus plantation in Congo. <i>Forest Ecology and Management</i> , 2004 , 202, 149-160	3.9	131
72	Age-related equations for above- and below-ground biomass of a Eucalyptus hybrid in Congo. <i>Forest Ecology and Management</i> , 2005 , 205, 199-214	3.9	129
71	Semiempirical modeling of abiotic and biotic factors controlling ecosystem respiration across eddy covariance sites. <i>Global Change Biology</i> , 2011 , 17, 390-409	11.4	102
70	Eucalyptus and Acacia tree growth over entire rotation in single- and mixed-species plantations across five sites in Brazil and Congo. <i>Forest Ecology and Management</i> , 2013 , 301, 89-101	3.9	91
69	Influence of nitrogen and potassium fertilization on leaf lifespan and allocation of above-ground growth in Eucalyptus plantations. <i>Tree Physiology</i> , 2009 , 29, 111-24	4.2	91
68	BAAD: a Biomass And Allometry Database for woody plants. <i>Ecology</i> , 2015 , 96, 1445-1445	4.6	89
67	Leaf area index estimation with MODIS reflectance time series and model inversion during full rotations of Eucalyptus plantations. <i>Remote Sensing of Environment</i> , 2011 , 115, 586-599	13.2	88
66	Photosynthetic and anatomical responses of Eucalyptus grandis leaves to potassium and sodium supply in a field experiment. <i>Plant, Cell and Environment</i> , 2014 , 37, 70-81	8.4	85
65	Importance of deep water uptake in tropical eucalypt forest. <i>Functional Ecology</i> , 2017 , 31, 509-519	5.6	83
64	Partitioning of net primary production in Eucalyptus and Acacia stands and in mixed-species plantations: Two case-studies in contrasting tropical environments. <i>Forest Ecology and Management</i> , 2013 , 301, 102-111	3.9	80

63	Nutrient cycling in a clonal stand of Eucalyptus and an adjacent savanna ecosystem in Congo: 3. Input/Output budgets and consequences for the sustainability of the plantations. <i>Forest Ecology and Management</i> , 2005 , 210, 375-391	3.9	79
62	MODIS NDVI time-series allow the monitoring of Eucalyptus plantation biomass. <i>Remote Sensing of Environment</i> , 2011 , 115, 2613-2625	13.2	77
61	Partitioning energy and evapo-transpiration above and below a tropical palm canopy. <i>Agricultural and Forest Meteorology</i> , 2006 , 139, 252-268	5.8	77
60	Introducing Acacia mangium trees in Eucalyptus grandis plantations: consequences for soil organic matter stocks and nitrogen mineralization. <i>Plant and Soil</i> , 2012 , 352, 99-111	4.2	74
59	Dynamics of soil exploration by fine roots down to a depth of 10 m throughout the entire rotation in Eucalyptus grandis plantations. <i>Frontiers in Plant Science</i> , 2013 , 4, 243	6.2	73
58	Effects of potassium and sodium supply on drought-adaptive mechanisms in Eucalyptus grandis plantations. <i>New Phytologist</i> , 2014 , 203, 401-413	9.8	70
57	On the relationship between sub-daily instantaneous and daily total gross primary production: Implications for interpreting satellite-based SIF retrievals. <i>Remote Sensing of Environment</i> , 2018 , 205, 276-289	13.2	68
56	Organic residue mass at planting is an excellent predictor of tree growth in Eucalyptus plantations established on a sandy tropical soil. <i>Forest Ecology and Management</i> , 2010 , 260, 2148-2159	3.9	67
55	Within-stand and seasonal variations of specific leaf area in a clonal Eucalyptus plantation in the Republic of Congo. <i>Forest Ecology and Management</i> , 2010 , 259, 1796-1807	3.9	66
54	Coupling a grassland ecosystem model with Landsat imagery for a 10-year simulation of carbon and water budgets. <i>Remote Sensing of Environment</i> , 2001 , 78, 131-149	13.2	65
53	Functional specialization of Eucalyptus fine roots: contrasting potential uptake rates for nitrogen, potassium and calcium tracers at varying soil depths. <i>Functional Ecology</i> , 2011 , 25, 996-1006	5.6	64
52	Production and carbon allocation in monocultures and mixed-species plantations of Eucalyptus grandis and Acacia mangium in Brazil. <i>Tree Physiology</i> , 2012 , 32, 680-95	4.2	61
51	Stem production, light absorption and light use efficiency between dominant and non-dominant trees of Eucalyptus grandis across a productivity gradient in Brazil. <i>Forest Ecology and Management</i> , 2013 , 288, 14-20	3.9	55
50	Potassium fertilization increases water-use efficiency for stem biomass production without affecting intrinsic water-use efficiency in Eucalyptus grandis plantations. <i>Forest Ecology and Management</i> , 2016 , 364, 77-89	3.9	50
49	Soil carbon dynamics following afforestation of a tropical savannah with Eucalyptus in Congo. <i>Plant and Soil</i> , 2009 , 323, 309-322	4.2	50
48	Decomposition of Eucalyptus grandis and Acacia mangium leaves and fine roots in tropical conditions did not meet the Home Field Advantage hypothesis. <i>Forest Ecology and Management</i> , 2016 , 359, 33-43	3.9	49
47	Evidence of short-term belowground transfer of nitrogen from Acacia mangium to Eucalyptus grandis trees in a tropical planted forest. <i>Soil Biology and Biochemistry</i> , 2015 , 91, 99-108	7.5	48
46	Mixing Eucalyptus and Acacia trees leads to fine root over-yielding and vertical segregation between species. <i>Oecologia</i> , 2013 , 172, 903-13	2.9	47

45	Do changes in carbon allocation account for the growth response to potassium and sodium applications in tropical Eucalyptus plantations?. <i>Tree Physiology</i> , 2012 , 32, 667-79	4.2	46
44	Soil carbon balance in a clonal Eucalyptus plantation in Congo: effects of logging on carbon inputs and soil CO ₂ efflux. <i>Global Change Biology</i> , 2006 , 12, 1021-1031	11.4	42
43	Influence of potassium and sodium nutrition on leaf area components in Eucalyptus grandis trees. <i>Plant and Soil</i> , 2013 , 371, 19-35	4.2	40
42	In situ ¹³ C pulse labelling of field-grown eucalypt trees revealed the effects of potassium nutrition and throughfall exclusion on phloem transport of photosynthetic carbon. <i>Tree Physiology</i> , 2016 , 36, 6-21	4.2	37
41	Measured and modeled interactive effects of potassium deficiency and water deficit on gross primary productivity and light-use efficiency in Eucalyptus grandis plantations. <i>Global Change Biology</i> , 2015 , 21, 2022-39	11.4	37
40	Relating MODIS vegetation index time-series with structure, light absorption and stem production of fast-growing Eucalyptus plantations. <i>Forest Ecology and Management</i> , 2010 , 259, 1741-1753	3.9	37
39	Mapping short-rotation plantations at regional scale using MODIS time series: Case of eucalypt plantations in Brazil. <i>Remote Sensing of Environment</i> , 2014 , 152, 136-149	13.2	36
38	Soil CO ₂ effluxes, soil carbon balance, and early tree growth following savannah afforestation in Congo: Comparison of two site preparation treatments. <i>Forest Ecology and Management</i> , 2008 , 255, 1928-1936 ³⁶	2.9	36
37	Evaluation of ALOS/PALSAR L-Band Data for the Estimation of Eucalyptus Plantations Aboveground Biomass in Brazil. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2015 , 8, 3802-3811	4.7	34
36	A fast exploration of very deep soil layers by Eucalyptus seedlings and clones in Brazil. <i>Forest Ecology and Management</i> , 2016 , 366, 143-152	3.9	34
35	Two independent estimations of stand-level root respiration on clonal Eucalyptus stands in Congo: up scaling of direct measurements on roots versus the trenched-plot technique. <i>New Phytologist</i> , 2008 , 177, 676-687	9.8	34
34	Consequences of mixing Acacia mangium and Eucalyptus grandis trees on soil exploration by fine-roots down to a depth of 17 m. <i>Plant and Soil</i> , 2018 , 424, 203-220	4.2	33
33	Stand-level patterns of carbon fluxes and partitioning in a Eucalyptus grandis plantation across a gradient of productivity, in Sao Paulo State, Brazil. <i>Tree Physiology</i> , 2012 , 32, 696-706	4.2	32
32	Age-related changes in litter inputs explain annual trends in soil CO ₂ effluxes over a full Eucalyptus rotation after afforestation of a tropical savannah. <i>Biogeochemistry</i> , 2012 , 111, 515-533	3.8	31
31	The manipulation of organic residues affects tree growth and heterotrophic CO ₂ efflux in a tropical Eucalyptus plantation. <i>Forest Ecology and Management</i> , 2013 , 301, 79-88	3.9	30
30	Fine root isotropy in Eucalyptus grandis plantations. Towards the prediction of root length densities from root counts on trench walls. <i>Plant and Soil</i> , 2010 , 334, 261-275	4.2	29
29	Testing Different Methods of Forest Height and Aboveground Biomass Estimations From ICESat/GLAS Data in Eucalyptus Plantations in Brazil. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2014 , 7, 290-299	4.7	28
28	Mapping local density of young Eucalyptus plantations by individual tree detection in high spatial resolution satellite images. <i>Forest Ecology and Management</i> , 2013 , 301, 129-141	3.9	27

27	Cross-validating Sun-shade and 3D models of light absorption by a tree-crop canopy. <i>Agricultural and Forest Meteorology</i> , 2008 , 148, 549-564	5.8	26
26	Nitrogen fixation rate of <i>Acacia mangium</i> Wild at mid rotation in Brazil is higher in mixed plantations with <i>Eucalyptus grandis</i> Hill ex Maiden than in monocultures. <i>Annals of Forest Science</i> , 2018 , 75, 1	3.1	25
25	Calibration of a Species-Specific Spectral Vegetation Index for Leaf Area Index (LAI) Monitoring: Example with MODIS Reflectance Time-Series on Eucalyptus Plantations. <i>Remote Sensing</i> , 2012 , 4, 3766-3780	5.7	22
24	Root elongation in tropical Eucalyptus plantations: effect of soil water content. <i>Annals of Forest Science</i> , 2008 , 65, 609-609	3.1	22
23	Modifying the GDAY process-based model to simulate the spatial variability of Eucalyptus plantation growth on deep tropical soils. <i>Forest Ecology and Management</i> , 2013 , 301, 112-128	3.9	20
22	Scaling-up productivity (NPP) using light or water use efficiencies (LUE, WUE) from a two-layer tropical plantation. <i>Agroforestry Systems</i> , 2009 , 76, 409-422	2	19
21	Measuring and modelling energy partitioning in canopies of varying complexity using MAESPA model. <i>Agricultural and Forest Meteorology</i> , 2018 , 253-254, 203-217	5.8	17
20	Contrasting phenology of <i>Eucalyptus grandis</i> fine roots in upper and very deep soil layers in Brazil. <i>Plant and Soil</i> , 2017 , 421, 301-318	4.2	15
19	Light absorption, light use efficiency and productivity of 16 contrasted genotypes of several <i>Eucalyptus</i> species along a 6-year rotation in Brazil. <i>Forest Ecology and Management</i> , 2019 , 449, 117443	3.9	14
18	Growth and maintenance respiration of roots of clonal Eucalyptus cuttings: scaling to stand-level. <i>Plant and Soil</i> , 2010 , 332, 41-53	4.2	13
17	Consequences of clear-cutting and drought on fine root dynamics down to 17 m in coppice-managed eucalypt plantations. <i>Forest Ecology and Management</i> , 2019 , 445, 48-59	3.9	11
16	Potassium fertilization increases hydraulic redistribution and water use efficiency for stemwood production in <i>Eucalyptus grandis</i> plantations. <i>Environmental and Experimental Botany</i> , 2020 , 176, 104085	5.9	10
15	Modelling carbon and water balance of Eucalyptus plantations at regional scale: Effect of climate, soil and genotypes. <i>Forest Ecology and Management</i> , 2019 , 449, 117460	3.9	10
14	Sampling and interpolation strategies derived from the analysis of continuous soil CO ₂ flux. <i>Journal of Plant Nutrition and Soil Science</i> , 2018 , 181, 12-20	2.3	8
13	Global maps of soil temperature.. <i>Global Change Biology</i> , 2021 ,	11.4	8
12	Tree crown detection in high resolution optical images during the early growth stages of Eucalyptus plantations in Brazil 2011 ,		6
11	Improvement of modeling plant responses to low soil moisture in JULESv4.9 and evaluation against flux tower measurements. <i>Geoscientific Model Development</i> , 2021 , 14, 3269-3294	6.3	6
10	Simulating the Canopy Reflectance of Different Eucalypt Genotypes With the DART 3-D Model. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2017 , 10, 4844-4852	4.7	4

9	Sun-induced fluorescence and near-infrared reflectance of vegetation track the seasonal dynamics of gross primary production over Africa. <i>Biogeosciences</i> , 2021 , 18, 2843-2857	4.6	3
8	Potassium limitation of wood productivity: A review of elementary processes and ways forward to modelling illustrated by Eucalyptus plantations. <i>Forest Ecology and Management</i> , 2021 , 494, 119275	3.9	3
7	Improvement of modelling plant responses to low soil moisture in JULESvn4.9 and evaluation against flux tower measurements		2
6	Estimation of forest height and above ground biomass from ICESat/GLAS data in Eucalyptus plantations in Brazil 2014 ,		1
5	Very high resolution satellite images for parameterization of tree-scale forest process-based model 2012 ,		1
4	Production and carbon allocation in clonal Eucalyptus plantations under different planting spacings. <i>Forest Ecology and Management</i> , 2021 , 493, 119249	3.9	1
3	Growth-ring boundaries of tropical tree species: Aiding delimitation by long histological sections and wood density profiles. <i>Dendrochronologia</i> , 2021 , 69, 125878	2.8	1
2	Increased hydraulic constraints in Eucalyptus plantations fertilized with potassium. <i>Plant, Cell and Environment</i> , 2021 , 44, 2938-2950	8.4	0
1	No isotopic evidence for a differential mineralization of old soil organic matter in sandy, nutrient-poor, tropical soils under eucalypts and acacias. <i>European Journal of Soil Biology</i> , 2016 , 76, 92-94	4.9	