

Yann Nouvellon

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/8100516/yann-nouvellon-publications-by-year.pdf>

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	Global maps of soil temperature.. <i>Global Change Biology</i> , 2021 ,	11.4	8
79	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
78	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
77	Increased hydraulic constraints in Eucalyptus plantations fertilized with potassium. <i>Plant, Cell and Environment</i> , 2021 , 44, 2938-2950	8.4	0
76	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
75	Production and carbon allocation in clonal Eucalyptus plantations under different planting spacings. <i>Forest Ecology and Management</i> , 2021 , 493, 119249	3.9	1
74	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
73	Potassium fertilization increases hydraulic redistribution and water use efficiency for stemwood production in Eucalyptus grandis plantations. <i>Environmental and Experimental Botany</i> , 2020 , 176, 104085	5.9	10
72	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
71	TRY plant trait database - enhanced coverage and open access. <i>Global Change Biology</i> , 2020 , 26, 119-188	11.4	399
70	The FLUXNET2015 dataset and the ONEFlux processing pipeline for eddy covariance data. <i>Scientific Data</i> , 2020 , 7, 225	8.2	256
69	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
68	Light absorption, light use efficiency and productivity of 16 contrasted genotypes of several Eucalyptus species along a 6-year rotation in Brazil. <i>Forest Ecology and Management</i> , 2019 , 449, 117443	3.9	14
67	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
66	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
65	Nitrogen fixation rate of Acacia mangium Wild at mid rotation in Brazil is higher in mixed plantations with Eucalyptus grandis Hill ex Maiden than in monocultures. <i>Annals of Forest Science</i> , 2018 , 75, 1	3.1	25
64	Sampling and interpolation strategies derived from the analysis of continuous soil CO2 flux. <i>Journal of Plant Nutrition and Soil Science</i> , 2018 , 181, 12-20	2.3	8

63	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
62	Consequences of mixing <i>Acacia mangium</i> and <i>Eucalyptus grandis</i> 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
61	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
60	Importance of deep water uptake in tropical eucalypt forest. <i>Functional Ecology</i> , 2017 , 31, 509-519	5.6	83
59	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
58	Decomposition of <i>Eucalyptus grandis</i> and <i>Acacia mangium</i> 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
57	Potassium fertilization increases water-use efficiency for stem biomass production without affecting intrinsic water-use efficiency in <i>Eucalyptus grandis</i> plantations. <i>Forest Ecology and Management</i> , 2016 , 364, 77-89	3.9	50
56	A fast exploration of very deep soil layers by <i>Eucalyptus</i> seedlings and clones in Brazil. <i>Forest Ecology and Management</i> , 2016 , 366, 143-152	3.9	34
55	In situ ¹³ CO ₂ 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
54	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 ⁹		
53	Evaluation of ALOS/PALSAR L-Band Data for the Estimation of <i>Eucalyptus</i> 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
52	BAAD: a Biomass And Allometry Database for woody plants. <i>Ecology</i> , 2015 , 96, 1445-1445	4.6	89
51	Evidence of short-term belowground transfer of nitrogen from <i>Acacia mangium</i> to <i>Eucalyptus grandis</i> trees in a tropical planted forest. <i>Soil Biology and Biochemistry</i> , 2015 , 91, 99-108	7.5	48
50	Measured and modeled interactive effects of potassium deficiency and water deficit on gross primary productivity and light-use efficiency in <i>Eucalyptus grandis</i> plantations. <i>Global Change Biology</i> , 2015 , 21, 2022-39	11.4	37
49	Effects of potassium and sodium supply on drought-adaptive mechanisms in <i>Eucalyptus grandis</i> plantations. <i>New Phytologist</i> , 2014 , 203, 401-413	9.8	70
48	Testing Different Methods of Forest Height and Aboveground Biomass Estimations From ICESat/GLAS Data in <i>Eucalyptus</i> Plantations in Brazil. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2014 , 7, 290-299	4.7	28
47	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
46	Estimation of forest height and above ground biomass from ICESat/GLAS data in <i>Eucalyptus</i> plantations in Brazil 2014 ,		1

45	Photosynthetic and anatomical responses of <i>Eucalyptus grandis</i> leaves to potassium and sodium supply in a field experiment. <i>Plant, Cell and Environment</i> , 2014 , 37, 70-81	8.4	85
44	Influence of potassium and sodium nutrition on leaf area components in <i>Eucalyptus grandis</i> trees. <i>Plant and Soil</i> , 2013 , 371, 19-35	4.2	40
43	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
42	Mixing <i>Eucalyptus</i> and <i>Acacia</i> trees leads to fine root over-yielding and vertical segregation between species. <i>Oecologia</i> , 2013 , 172, 903-13	2.9	47
41	Modifying the GDAY process-based model to simulate the spatial variability of <i>Eucalyptus</i> plantation growth on deep tropical soils. <i>Forest Ecology and Management</i> , 2013 , 301, 112-128	3.9	20
40	The manipulation of organic residues affects tree growth and heterotrophic CO ₂ efflux in a tropical <i>Eucalyptus</i> plantation. <i>Forest Ecology and Management</i> , 2013 , 301, 79-88	3.9	30
39	Stem production, light absorption and light use efficiency between dominant and non-dominant trees of <i>Eucalyptus grandis</i> across a productivity gradient in Brazil. <i>Forest Ecology and Management</i> , 2013 , 288, 14-20	3.9	55
38	Mapping local density of young <i>Eucalyptus</i> plantations by individual tree detection in high spatial resolution satellite images. <i>Forest Ecology and Management</i> , 2013 , 301, 129-141	3.9	27
37	<i>Eucalyptus</i> and <i>Acacia</i> 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
36	Partitioning of net primary production in <i>Eucalyptus</i> and <i>Acacia</i> 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
35	Dynamics of soil exploration by fine roots down to a depth of 10 m throughout the entire rotation in <i>Eucalyptus grandis</i> plantations. <i>Frontiers in Plant Science</i> , 2013 , 4, 243	6.2	73
34	Introducing <i>Acacia mangium</i> trees in <i>Eucalyptus grandis</i> plantations: consequences for soil organic matter stocks and nitrogen mineralization. <i>Plant and Soil</i> , 2012 , 352, 99-111	4.2	74
33	Age-related changes in litter inputs explain annual trends in soil CO ₂ effluxes over a full <i>Eucalyptus</i> rotation after afforestation of a tropical savannah. <i>Biogeochemistry</i> , 2012 , 111, 515-533	3.8	31
32	Very high resolution satellite images for parameterization of tree-scale forest process-based model 2012 ,		1
31	Calibration of a Species-Specific Spectral Vegetation Index for Leaf Area Index (LAI) Monitoring: Example with MODIS Reflectance Time-Series on <i>Eucalyptus</i> Plantations. <i>Remote Sensing</i> , 2012 , 4, 3766-3780	5	22
30	Do changes in carbon allocation account for the growth response to potassium and sodium applications in tropical <i>Eucalyptus</i> plantations?. <i>Tree Physiology</i> , 2012 , 32, 667-79	4.2	46
29	Production and carbon allocation in monocultures and mixed-species plantations of <i>Eucalyptus grandis</i> and <i>Acacia mangium</i> in Brazil. <i>Tree Physiology</i> , 2012 , 32, 680-95	4.2	61
28	Stand-level patterns of carbon fluxes and partitioning in a <i>Eucalyptus grandis</i> plantation across a gradient of productivity, in Sao Paulo State, Brazil. <i>Tree Physiology</i> , 2012 , 32, 696-706	4.2	32

27	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
26	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
25	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
24	MODIS NDVI time-series allow the monitoring of Eucalyptus plantation biomass. <i>Remote Sensing of Environment</i> , 2011 , 115, 2613-2625	13.2	77
23	Tree crown detection in high resolution optical images during the early growth stages of Eucalyptus plantations in Brazil 2011 ,		6
22	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
21	Biogeochemical cycles of nutrients in tropical Eucalyptus plantations. <i>Forest Ecology and Management</i> , 2010 , 259, 1771-1785	3.9	182
20	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
19	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
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	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
16	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
15	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
14	The land-atmosphere water flux in the tropics. <i>Global Change Biology</i> , 2009 , 15, 2694-2714	11.4	169
13	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
12	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
11	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
10	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	3.9	36

9	Root elongation in tropical Eucalyptus plantations: effect of soil water content. <i>Annals of Forest Science</i> , 2008 , 65, 609-609	3.1	22
8	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
7	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
6	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
5	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
4	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
3	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
2	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
1	Improvement of modelling plant responses to low soil moisture in JULESv4.9 and evaluation against flux tower measurements		2