

Yann Nouvellon

List of Publications by Year in descending order

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Version: 2024-02-01

82
papers

6,958
citations

57719

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66879

78
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docs citations

88
times ranked

9434
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | TRY plant trait database – enhanced coverage and open access. <i>Global Change Biology</i> , 2020, 26, 119-188. | 4.2 | 1,038 |
| 2 | The FLUXNET2015 dataset and the ONEFlux processing pipeline for eddy covariance data. <i>Scientific Data</i> , 2020, 7, 225. | 2.4 | 646 |
| 3 | Tamm Review: Influence of forest management activities on soil organic carbon stocks: A knowledge synthesis. <i>Forest Ecology and Management</i> , 2020, 466, 118127. | 1.4 | 327 |
| 4 | 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. | 1.4 | 314 |
| 5 | Biogeochemical cycles of nutrients in tropical Eucalyptus plantations. <i>Forest Ecology and Management</i> , 2010, 259, 1771-1785. | 1.4 | 227 |
| 6 | The land-atmosphere water flux in the tropics. <i>Global Change Biology</i> , 2009, 15, 2694-2714. | 4.2 | 198 |
| 7 | 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. | 4.2 | 179 |
| 8 | 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. | 1.4 | 156 |
| 9 | Spatial and temporal variations of soil respiration in a Eucalyptus plantation in Congo. <i>Forest Ecology and Management</i> , 2004, 202, 149-160. | 1.4 | 145 |
| 10 | Importance of deep water uptake in tropical eucalypt forest. <i>Functional Ecology</i> , 2017, 31, 509-519. | 1.7 | 137 |
| 11 | Semiempirical modeling of abiotic and biotic factors controlling ecosystem respiration across eddy covariance sites. <i>Global Change Biology</i> , 2011, 17, 390-409. | 4.2 | 128 |
| 12 | BAAD: a Biomass And Allometry Database for woody plants. <i>Ecology</i> , 2015, 96, 1445-1445. | 1.5 | 122 |
| 13 | 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. | 2.8 | 118 |
| 14 | Influence of nitrogen and potassium fertilization on leaf lifespan and allocation of above-ground growth in Eucalyptus plantations. <i>Tree Physiology</i> , 2008, 29, 111-124. | 1.4 | 114 |
| 15 | Global maps of soil temperature. <i>Global Change Biology</i> , 2022, 28, 3110-3144. | 4.2 | 113 |
| 16 | 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. | 1.4 | 110 |
| 17 | MODIS NDVI time-series allow the monitoring of Eucalyptus plantation biomass. <i>Remote Sensing of Environment</i> , 2011, 115, 2613-2625. | 4.6 | 100 |
| 18 | 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. | 1.8 | 100 |

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|----|---|-----|-----------|
| 19 | 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. | 4.6 | 96 |
| 20 | 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. | 1.7 | 94 |
| 21 | Nutrient cycling in a clonal stand of Eucalyptus and an adjacent savanna ecosystem in Congo. <i>Forest Ecology and Management</i> , 2005, 210, 375-391. | 1.4 | 92 |
| 22 | Effects of potassium and sodium supply on drought-adaptive mechanisms in Eucalyptus grandis plantations. <i>New Phytologist</i> , 2014, 203, 401-413. | 3.5 | 92 |
| 23 | Partitioning energy and evapo-transpiration above and below a tropical palm canopy. <i>Agricultural and Forest Meteorology</i> , 2006, 139, 252-268. | 1.9 | 91 |
| 24 | 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. | 1.4 | 91 |
| 25 | 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. | 4.6 | 91 |
| 26 | 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. | 1.4 | 81 |
| 27 | 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. | 4.6 | 76 |
| 28 | 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. | 1.7 | 76 |
| 29 | 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. | 1.4 | 74 |
| 30 | 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. | 1.4 | 73 |
| 31 | Production and carbon allocation in monocultures and mixed-species plantations of Eucalyptus grandis and Acacia mangium in Brazil. <i>Tree Physiology</i> , 2012, 32, 680-695. | 1.4 | 72 |
| 32 | 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. | 1.4 | 71 |
| 33 | 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. | 4.2 | 67 |
| 34 | 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. | 1.4 | 62 |
| 35 | 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, 667-679. | 1.4 | 57 |
| 36 | Soil carbon dynamics following afforestation of a tropical savannah with Eucalyptus in Congo. <i>Plant and Soil</i> , 2009, 323, 309-322. | 1.8 | 56 |

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|----|--|-----|-----------|
| 37 | Mixing Eucalyptus and Acacia trees leads to fine root over-yielding and vertical segregation between species. <i>Oecologia</i> , 2013, 172, 903-913. | 0.9 | 56 |
| 38 | In situ ¹³ C 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. | 1.4 | 56 |
| 39 | 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. | 1.8 | 53 |
| 40 | Soil carbon balance in a clonal <i>Eucalyptus</i> plantation in Congo: effects of logging on carbon inputs and soil CO ₂ efflux. <i>Global Change Biology</i> , 2006, 12, 1021-1031. | 4.2 | 50 |
| 41 | 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. | 4.6 | 50 |
| 42 | 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, 2022-2039. | 4.2 | 49 |
| 43 | 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. | 1.4 | 48 |
| 44 | 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. | 2.3 | 43 |
| 45 | 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. | 1.8 | 42 |
| 46 | 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. | 2.3 | 41 |
| 47 | Relating MODIS vegetation index time-series with structure, light absorption and stem production of fast-growing <i>Eucalyptus</i> plantations. <i>Forest Ecology and Management</i> , 2010, 259, 1741-1753. | 1.4 | 40 |
| 48 | 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. | 1.4 | 39 |
| 49 | Two independent estimations of stand-level root respiration on clonal <i>Eucalyptus</i> stands in Congo: up scaling of direct measurements on roots versus the trenched-plot technique. <i>New Phytologist</i> , 2008, 177, 676-687. | 3.5 | 38 |
| 50 | 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, 1926-1936. | 1.4 | 38 |
| 51 | 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. | 0.8 | 37 |
| 52 | Fine root isotropy in <i>Eucalyptus grandis</i> plantations. Towards the prediction of root length densities from root counts on trench walls. <i>Plant and Soil</i> , 2010, 334, 261-275. | 1.8 | 36 |
| 53 | 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. | 1.4 | 36 |
| 54 | 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. | 1.7 | 34 |

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|----|---|-----|-----------|
| 55 | 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. | 1.4 | 33 |
| 56 | 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. | 1.9 | 30 |
| 57 | Introduction to the invited issue on carbon allocation of trees and forests. <i>Tree Physiology</i> , 2012, 32, 639-643. | 1.4 | 30 |
| 58 | Root elongation in tropical Eucalyptus plantations: effect of soil water content. <i>Annals of Forest Science</i> , 2008, 65, 609-609. | 0.8 | 28 |
| 59 | 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. | 1.8 | 28 |
| 60 | Modifying the G â ™DAY 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. | 1.4 | 27 |
| 61 | Measuring and modelling energy partitioning in canopies of varying complexity using MAESPA model. <i>Agricultural and Forest Meteorology</i> , 2018, 253-254, 203-217. | 1.9 | 24 |
| 62 | 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. | 2.0 | 23 |
| 63 | 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. | 0.9 | 20 |
| 64 | Contrasting phenology of Eucalyptus grandis fine roots in upper and very deep soil layers in Brazil. <i>Plant and Soil</i> , 2017, 421, 301-318. | 1.8 | 19 |
| 65 | 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. | 1.4 | 19 |
| 66 | Consequences of clear-cutting and drought on fine root dynamics down to 17â€m in coppice-managed eucalypt plantations. <i>Forest Ecology and Management</i> , 2019, 445, 48-59. | 1.4 | 19 |
| 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. | 1.4 | 18 |
| 68 | Growth-ring boundaries of tropical tree species: Aiding delimitation by long histological sections and wood density profiles. <i>Dendrochronologia</i> , 2021, 69, 125878. | 1.0 | 16 |
| 69 | Growth and maintenance respiration of roots of clonal Eucalyptus cuttings: scaling to stand-level. <i>Plant and Soil</i> , 2010, 332, 41-53. | 1.8 | 15 |
| 70 | 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. | 1.3 | 15 |
| 71 | 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. | 1.3 | 15 |
| 72 | 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. | 1.4 | 14 |

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|----|---|-----|-----------|
| 73 | Sampling and interpolation strategies derived from the analysis of continuous soil CO2 flux. Journal of Plant Nutrition and Soil Science, 2018, 181, 12-20. | 1.1 | 12 |
| 74 | Tree crown detection in high resolution optical images during the early growth stages of Eucalyptus plantations in Brazil. , 2011, , . | | 6 |
| 75 | Production and carbon allocation in clonal Eucalyptus plantations under different planting spacings. Forest Ecology and Management, 2021, 493, 119249. | 1.4 | 6 |
| 76 | Simulating the Canopy Reflectance of Different Eucalypt Genotypes With the DART 3-D Model. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2017, 10, 4844-4852. | 2.3 | 5 |
| 77 | Carbon and Water Cycling in Two Rubber Plantations and a Natural Forest in Mainland Southeast Asia. Journal of Geophysical Research C: Biogeosciences, 2022, 127, . | 1.3 | 5 |
| 78 | Increased hydraulic constraints in <i>Eucalyptus</i> plantations fertilized with potassium. Plant, Cell and Environment, 2021, 44, 2938-2950. | 2.8 | 4 |
| 79 | Very high resolution satellite images for parameterization of tree-scale forest process-based model. , 2012, , . | | 1 |
| 80 | Estimation of forest height and above ground biomass from ICESat/GLAS data in Eucalyptus plantations in Brazil. , 2014, , . | | 1 |
| 81 | Estimation of Eucalyptus plantations above ground biomass in Brazil using ALOS/PALSAR L-band data. , 2014, , . | | 0 |
| 82 | No isotopic evidence for a differential mineralization of old soil organic matter in sandy, nutrient-poor, tropical soils under eucalypts and acacias. European Journal of Soil Biology, 2016, 76, 92-94. | 1.4 | 0 |