

Nicolas Delpierre

List of Publications by Year in Descending Order

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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.

58
papers

3,145
citations

26
h-index

56
g-index

69
ext. papers

4,218
ext. citations

7.5
avg, IF

4.66
L-index

| # | Paper | IF | Citations |
|----|---|------|-----------|
| 58 | The 2018 European heatwave led to stem dehydration but not to consistent growth reductions in forests.. <i>Nature Communications</i> , 2022 , 13, 28 | 17.4 | 7 |
| 57 | Spring phenology in subtropical trees: Developing process-based models on an experimental basis. <i>Agricultural and Forest Meteorology</i> , 2022 , 314, 108802 | 5.8 | 0 |
| 56 | Globally, tree fecundity exceeds productivity gradients.. <i>Ecology Letters</i> , 2022 , | 10 | 4 |
| 55 | Limits to reproduction and seed size-number trade-offs that shape forest dominance and future recovery.. <i>Nature Communications</i> , 2022 , 13, 2381 | 17.4 | 2 |
| 54 | Cross-biome synthesis of source versus sink limits to tree growth.. <i>Science</i> , 2022 , 376, 758-761 | 33.3 | 7 |
| 53 | Contribution of deep soil layers to the transpiration of a temperate deciduous forest: Implications for the modelling of productivity.. <i>Science of the Total Environment</i> , 2022 , 155981 | 10.2 | 0 |
| 52 | Drought-induced decoupling between carbon uptake and tree growth impacts forest carbon turnover time. <i>Agricultural and Forest Meteorology</i> , 2022 , 322, 108996 | 5.8 | 1 |
| 51 | Budburst date of <i>Quercus petraea</i> is delayed in mixed stands with <i>Pinus sylvestris</i> . <i>Agricultural and Forest Meteorology</i> , 2021 , 300, 108326 | 5.8 | 0 |
| 50 | Interaction of drought and frost in tree ecophysiology: rethinking the timing of risks. <i>Annals of Forest Science</i> , 2021 , 78, 1 | 3.1 | 4 |
| 49 | Higher sample sizes and observer inter-calibration are needed for reliable scoring of leaf phenology in trees. <i>Journal of Ecology</i> , 2021 , 109, 2461-2474 | 6 | 1 |
| 48 | A survey of proximal methods for monitoring leaf phenology in temperate deciduous forests. <i>Biogeosciences</i> , 2021 , 18, 3391-3408 | 4.6 | 3 |
| 47 | Global transpiration data from sap flow measurements: the SAPFLUXNET database. <i>Earth System Science Data</i> , 2021 , 13, 2607-2649 | 10.5 | 13 |
| 46 | The within-population variability of leaf spring and autumn phenology is influenced by temperature in temperate deciduous trees. <i>International Journal of Biometeorology</i> , 2021 , 65, 369-379 | 3.7 | 8 |
| 45 | Drought elicits contrasting responses on the autumn dynamics of wood formation in late successional deciduous tree species. <i>Tree Physiology</i> , 2021 , 41, 1171-1185 | 4.2 | 4 |
| 44 | 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 |
| 43 | Potential of C-band Synthetic Aperture Radar Sentinel-1 time-series for the monitoring of phenological cycles in a deciduous forest. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2021 , 104, 102505 | 7.3 | 5 |
| 42 | "Green pointillism": detecting the within-population variability of budburst in temperate deciduous trees with phenological cameras. <i>International Journal of Biometeorology</i> , 2020 , 64, 663-670 | 3.7 | 5 |

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| 41 | Carbon-nitrogen interactions in European forests and semi-natural vegetation [Part 1: Fluxes and budgets of carbon, nitrogen and greenhouse gases from ecosystem monitoring and modelling. <i>Biogeosciences</i> , 2020 , 17, 1583-1620 | 4.6 | 12 |
| 40 | TRY plant trait database - enhanced coverage and open access. <i>Global Change Biology</i> , 2020 , 26, 119-188 | 11.4 | 399 |
| 39 | Ecosystem transpiration and evaporation: Insights from three water flux partitioning methods across FLUXNET sites. <i>Global Change Biology</i> , 2020 , 26, 6916-6930 | 11.4 | 31 |
| 38 | The FLUXNET2015 dataset and the ONEFlux processing pipeline for eddy covariance data. <i>Scientific Data</i> , 2020 , 7, 225 | 8.2 | 256 |
| 37 | Environmental control of land-atmosphere CO ₂ fluxes from temperate ecosystems: a statistical approach based on homogenized time series from five land-use types. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2020 , 72, 1-25 | 3.3 | 2 |
| 36 | Nutrient availability alters the correlation between spring leaf-out and autumn leaf senescence dates. <i>Tree Physiology</i> , 2019 , 39, 1277-1284 | 4.2 | 16 |
| 35 | Covariations between plant functional traits emerge from constraining parameterization of a terrestrial biosphere model. <i>Global Ecology and Biogeography</i> , 2019 , 28, 1351-1365 | 6.1 | 11 |
| 34 | Modelling leaf coloration dates over temperate China by considering effects of leafy season climate. <i>Ecological Modelling</i> , 2019 , 394, 34-43 | 3 | 12 |
| 33 | Chilling and forcing temperatures interact to predict the onset of wood formation in Northern Hemisphere conifers. <i>Global Change Biology</i> , 2019 , 25, 1089-1105 | 11.4 | 44 |
| 32 | Warmer winters reduce the advance of tree spring phenology induced by warmer springs in the Alps. <i>Agricultural and Forest Meteorology</i> , 2018 , 252, 220-230 | 5.8 | 55 |
| 31 | Antagonistic effects of growing season and autumn temperatures on the timing of leaf coloration in winter deciduous trees. <i>Global Change Biology</i> , 2018 , 24, 3537-3545 | 11.4 | 26 |
| 30 | Assessing the roles of temperature, carbon inputs and airborne pollen as drivers of fructification in European temperate deciduous forests. <i>European Journal of Forest Research</i> , 2018 , 137, 349-365 | 2.7 | 22 |
| 29 | Soil sampling and preparation for monitoring soil carbon. <i>International Agrophysics</i> , 2018 , 32, 633-643 | 2 | 9 |
| 28 | Larger temperature response of autumn leaf senescence than spring leaf-out phenology. <i>Global Change Biology</i> , 2018 , 24, 2159-2168 | 11.4 | 62 |
| 27 | Coupling Water and Carbon Fluxes to Constrain Estimates of Transpiration: The TEA Algorithm. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2018 , 123, 3617-3632 | 3.7 | 21 |
| 26 | Tree phenological ranks repeat from year to year and correlate with growth in temperate deciduous forests. <i>Agricultural and Forest Meteorology</i> , 2017 , 234-235, 1-10 | 5.8 | 31 |
| 25 | Environmental control of carbon allocation matters for modelling forest growth. <i>New Phytologist</i> , 2017 , 214, 180-193 | 9.8 | 42 |
| 24 | Temperate and boreal forest tree phenology: from organ-scale processes to terrestrial ecosystem models. <i>Annals of Forest Science</i> , 2016 , 73, 5-25 | 3.1 | 132 |

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| 23 | Wood phenology, not carbon input, controls the interannual variability of wood growth in a temperate oak forest. <i>New Phytologist</i> , 2016 , 210, 459-70 | 9.8 | 89 |
| 22 | Influence of physiological phenology on the seasonal pattern of ecosystem respiration in deciduous forests. <i>Global Change Biology</i> , 2015 , 21, 363-76 | 11.4 | 41 |
| 21 | The dynamic of the annual carbon allocation to wood in European tree species is consistent with a combined source-sink limitation of growth: implications for modelling. <i>Biogeosciences</i> , 2015 , 12, 2773-2790 | 4.6 | 32 |
| 20 | Relationships between photochemical reflectance index and light-use efficiency in deciduous and evergreen broadleaf forests. <i>Remote Sensing of Environment</i> , 2014 , 144, 73-84 | 13.2 | 61 |
| 19 | Climate and atmosphere simulator for experiments on ecological systems in changing environments. <i>Environmental Science & Technology</i> , 2014 , 48, 8744-53 | 10.3 | 15 |
| 18 | Assessing the effects of management on forest growth across France: insights from a new functional-structural model. <i>Annals of Botany</i> , 2014 , 114, 779-93 | 4.1 | 32 |
| 17 | Forest summer albedo is sensitive to species and thinning: how should we account for this in Earth system models?. <i>Biogeosciences</i> , 2014 , 11, 2411-2427 | 4.6 | 22 |
| 16 | Seasonal changes in carbon and nitrogen compound concentrations in a <i>Quercus petraea</i> chronosequence. <i>Tree Physiology</i> , 2014 , 34, 716-29 | 4.2 | 15 |
| 15 | A new probabilistic canopy dynamics model (SLCD) that is suitable for evergreen and deciduous forest ecosystems. <i>Ecological Modelling</i> , 2014 , 290, 121-133 | 3 | 8 |
| 14 | Evaluation of the potential of MODIS satellite data to predict vegetation phenology in different biomes: An investigation using ground-based NDVI measurements. <i>Remote Sensing of Environment</i> , 2013 , 132, 145-158 | 13.2 | 266 |
| 13 | Predicting climate change impacts on the amount and duration of autumn colors in a New England forest. <i>PLoS ONE</i> , 2013 , 8, e57373 | 3.7 | 100 |
| 12 | Ground-based Network of NDVI measurements for tracking temporal dynamics of canopy structure and vegetation phenology in different biomes. <i>Remote Sensing of Environment</i> , 2012 , 123, 234-245 | 13.2 | 139 |
| 11 | Spatial variability of soil CO ₂ efflux linked to soil parameters and ecosystem characteristics in a temperate beech forest. <i>Agricultural and Forest Meteorology</i> , 2012 , 154-155, 136-146 | 5.8 | 57 |
| 10 | Assessing parameter variability in a photosynthesis model within and between plant functional types using global Fluxnet eddy covariance data. <i>Agricultural and Forest Meteorology</i> , 2011 , 151, 22-38 | 5.8 | 105 |
| 9 | Assessing the effects of climate change on the phenology of European temperate trees. <i>Agricultural and Forest Meteorology</i> , 2011 , 151, 969-980 | 5.8 | 234 |
| 8 | Climate control of terrestrial carbon exchange across biomes and continents. <i>Environmental Research Letters</i> , 2010 , 5, 034007 | 6.2 | 116 |
| 7 | Detecting the critical periods that underpin interannual fluctuations in the carbon balance of European forests. <i>Journal of Geophysical Research</i> , 2010 , 115, | | 21 |
| 6 | Linking intra-seasonal variations in climate and tree-ring $\delta^{13}C$: A functional modelling approach. <i>Ecological Modelling</i> , 2010 , 221, 1779-1797 | 3 | 25 |

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| 5 | Exceptional carbon uptake in European forests during the warm spring of 2007: a data model analysis. <i>Global Change Biology</i> , 2009 , 15, 1455-1474 | 11.4 | 96 |
| 4 | Modelling interannual and spatial variability of leaf senescence for three deciduous tree species in France. <i>Agricultural and Forest Meteorology</i> , 2009 , 149, 938-948 | 5.8 | 176 |
| 3 | Estimating nocturnal ecosystem respiration from the vertical turbulent flux and change in storage of CO ₂ . <i>Agricultural and Forest Meteorology</i> , 2009 , 149, 1919-1930 | 5.8 | 87 |
| 2 | Evaluation of the onset of green-up in temperate deciduous broadleaf forests derived from Moderate Resolution Imaging Spectroradiometer (MODIS) data. <i>Remote Sensing of Environment</i> , 2008 , 112, 2643-2655 | 13.2 | 135 |
| 1 | Global transpiration data from sap flow measurements: the SAPFLUXNET database | | 6 |