

Nicolas Delpierre

List of Publications by Year in descending order

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Version: 2024-02-01

58
papers

5,344
citations

147566

31
h-index

138251

58
g-index

69
all docs

69
docs citations

69
times ranked

8025
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	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.	4.6	343
4	Assessing the effects of climate change on the phenology of European temperate trees. <i>Agricultural and Forest Meteorology</i> , 2011, 151, 969-980.	1.9	286
5	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.	1.9	241
6	Temperate and boreal forest tree phenology: from organ-scale processes to terrestrial ecosystem models. <i>Annals of Forest Science</i> , 2016, 73, 5-25.	0.8	187
7	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.	4.6	161
8	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.	4.6	154
9	Climate control of terrestrial carbon exchange across biomes and continents. <i>Environmental Research Letters</i> , 2010, 5, 034007.	2.2	137
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.	1.9	135
11	Predicting Climate Change Impacts on the Amount and Duration of Autumn Colors in a New England Forest. <i>PLoS ONE</i> , 2013, 8, e57373.	1.1	125
12	Larger temperature response of autumn leaf senescence than spring leaf-out phenology. <i>Global Change Biology</i> , 2018, 24, 2159-2168.	4.2	124
13	Wood phenology, not carbon input, controls the interannual variability of wood growth in a temperate oak forest. <i>New Phytologist</i> , 2016, 210, 459-470.	3.5	122
14	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.	4.2	110
15	Ecosystem transpiration and evaporation: Insights from three water flux partitioning methods across FLUXNET sites. <i>Global Change Biology</i> , 2020, 26, 6916-6930.	4.2	97
16	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.	1.9	91
17	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.	1.9	87
18	Cross-biome synthesis of source versus sink limits to tree growth. <i>Science</i> , 2022, 376, 758-761.	6.0	76

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19	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.	4.6	72
20	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.	4.2	72
21	The 2018 European heatwave led to stem dehydration but not to consistent growth reductions in forests. <i>Nature Communications</i> , 2022, 13, 28.	5.8	66
22	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.	1.9	65
23	Global transpiration data from sap flow measurements: the SAPFLUXNET database. <i>Earth System Science Data</i> , 2021, 13, 2607-2649.	3.7	65
24	Environmental control of carbon allocation matters for modelling forest growth. <i>New Phytologist</i> , 2017, 214, 180-193.	3.5	63
25	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.	1.3	56
26	Influence of physiological phenology on the seasonal pattern of ecosystem respiration in deciduous forests. <i>Global Change Biology</i> , 2015, 21, 363-376.	4.2	52
27	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.	1.9	47
28	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.	4.2	42
29	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.	1.3	41
30	Nutrient availability alters the correlation between spring leaf-out and autumn leaf senescence dates. <i>Tree Physiology</i> , 2019, 39, 1277-1284.	1.4	37
31	Assessing the effects of management on forest growth across France: insights from a new functional-structural model. <i>Annals of Botany</i> , 2014, 114, 779-793.	1.4	35
32	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.	1.1	31
33	Linking intra-seasonal variations in climate and tree-ring $\delta^{13}C$: A functional modelling approach. <i>Ecological Modelling</i> , 2010, 221, 1779-1797.	1.2	30
34	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.	1.3	29
35	Interaction of drought and frost in tree ecophysiology: rethinking the timing of risks. <i>Annals of Forest Science</i> , 2021, 78, 1.	0.8	26
36	Seasonal changes in carbon and nitrogen compound concentrations in a <i>Quercus petraea</i> chronosequence. <i>Tree Physiology</i> , 2014, 34, 716-729.	1.4	24

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37	Detecting the critical periods that underpin interannual fluctuations in the carbon balance of European forests. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	22
38	Covariations between plant functional traits emerge from constraining parameterization of a terrestrial biosphere model. <i>Global Ecology and Biogeography</i> , 2019, 28, 1351-1365.	2.7	22
39	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.	1.3	21
40	Limits to reproduction and seed size-number trade-offs that shape forest dominance and future recovery. <i>Nature Communications</i> , 2022, 13, 2381.	5.8	21
41	Modelling leaf coloration dates over temperate China by considering effects of leafy season climate. <i>Ecological Modelling</i> , 2019, 394, 34-43.	1.2	20
42	Climate and Atmosphere Simulator for Experiments on Ecological Systems in Changing Environments. <i>Environmental Science & Technology</i> , 2014, 48, 8744-8753.	4.6	18
43	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.	1.3	18
44	Drought-induced decoupling between carbon uptake and tree growth impacts forest carbon turnover time. <i>Agricultural and Forest Meteorology</i> , 2022, 322, 108996.	1.9	16
45	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
46	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.	1.4	14
47	“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.	1.3	13
48	Soil sampling and preparation for monitoring soil carbon. <i>International Agrophysics</i> , 2018, 32, 633-643.	0.7	12
49	Globally, tree fecundity exceeds productivity gradients. <i>Ecology Letters</i> , 2022, 25, 1471-1482.	3.0	11
50	A new probabilistic canopy dynamics model (SLCD) that is suitable for evergreen and deciduous forest ecosystems. <i>Ecological Modelling</i> , 2014, 290, 121-133.	1.2	10
51	A survey of proximal methods for monitoring leaf phenology in temperate deciduous forests. <i>Biogeosciences</i> , 2021, 18, 3391-3408.	1.3	9
52	Spring phenology in subtropical trees: Developing process-based models on an experimental basis. <i>Agricultural and Forest Meteorology</i> , 2022, 314, 108802.	1.9	9
53	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.	1.9	7
54	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.	1.4	5

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55	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> , 2022, 72, 1784689.	0.8	4
56	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.	1.9	4
57	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, 838, 155981.	3.9	3
58	Recently absorbed nitrogen incorporates into new and old tissues: evidence from a ¹⁵ N-labelling experiment in deciduous oaks. <i>Plant and Soil</i> , 0, , .	1.8	0