

Cyrille B K Rathgeber

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1129667/publications.pdf>

Version: 2024-02-01

61
papers

4,580
citations

101384

36
h-index

102304

66
g-index

71
all docs

71
docs citations

71
times ranked

3193
citing authors

#	ARTICLE	IF	CITATIONS
1	Critical temperatures for xylogenesis in conifers of cold climates. <i>Global Ecology and Biogeography</i> , 2008, 17, 696-707.	2.7	476
2	Woody biomass production lags stem-girth increase by over one month in coniferous forests. <i>Nature Plants</i> , 2015, 1, 15160.	4.7	294
3	Comparing the intra-annual wood formation of three European species (<i>Fagus sylvatica</i> , <i>Quercus</i>) Tj ETQq1 1 0.784314 rgBT /Overloc <i>Tree Physiology</i> , 2012, 32, 1033-1045.	1.4	291
4	Kinetics of tracheid development explain conifer tree ring structure. <i>New Phytologist</i> , 2014, 203, 1231-1241.	3.5	226
5	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
6	Cambial activity related to tree size in a mature silver-fir plantation. <i>Annals of Botany</i> , 2011, 108, 429-438.	1.4	177
7	Biological Basis of Tree-Ring Formation: A Crash Course. <i>Frontiers in Plant Science</i> , 2016, 7, 734.	1.7	175
8	Pattern of xylem phenology in conifers of cold ecosystems at the Northern Hemisphere. <i>Global Change Biology</i> , 2016, 22, 3804-3813.	4.2	174
9	Sensitivity of French temperate coniferous forests to climate variability and extreme events (<i>Abies</i>) Tj ETQq1 1 0.784314 rgBT /Ove <i>Tree Physiology</i> , 2012, 32, 612-625.	1.1	167
10	Life strategies in intra-annual dynamics of wood formation: example of three conifer species in a temperate forest in north-east France. <i>Tree Physiology</i> , 2012, 32, 612-625.	1.4	150
11	A meta-analysis of cambium phenology and growth: linear and non-linear patterns in conifers of the northern hemisphere. <i>Annals of Botany</i> , 2013, 112, 1911-1920.	1.4	119
12	Photoperiod and temperature as dominant environmental drivers triggering secondary growth resumption in Northern Hemisphere conifers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 20645-20652.	3.3	113
13	Last-millennium summer-temperature variations in western Europe based on proxy data. <i>Holocene</i> , 2005, 15, 489-500.	0.9	109
14	Plasticity in Dendroclimatic Response across the Distribution Range of Aleppo Pine (<i>Pinus halepensis</i>). <i>PLoS ONE</i> , 2013, 8, e83550.	1.1	100
15	Xylogenesis: Coniferous Trees of Temperate Forests Are Listening to the Climate Tale during the Growing Season But Only Remember the Last Words!. <i>Plant Physiology</i> , 2016, 171, 306-317.	2.3	96
16	Generalized additive models reveal the intrinsic complexity of wood formation dynamics. <i>Journal of Experimental Botany</i> , 2013, 64, 1983-1994.	2.4	94
17	Turgor "a limiting factor for radial growth in mature conifers along an elevational gradient. <i>New Phytologist</i> , 2021, 229, 213-229.	3.5	94
18	Effects of a 20-day-long dry period on cambial and apical meristem growth in <i>Abies balsamea</i> seedlings. <i>Trees - Structure and Function</i> , 2009, 23, 85-93.	0.9	88

#	ARTICLE	IF	CITATIONS
19	Compensatory mechanisms mitigate the effect of warming and drought on wood formation. <i>Plant, Cell and Environment</i> , 2016, 39, 1338-1352.	2.8	88
20	From xylogenesis to tree rings: wood traits to investigate tree response to environmental changes. <i>IAWA Journal</i> , 2019, 40, 155-182.	2.7	85
21	Couplings in cell differentiation kinetics mitigate air temperature influence on conifer wood anatomy. <i>Plant, Cell and Environment</i> , 2019, 42, 1222-1232.	2.8	80
22	Comparing needle and shoot phenology with xylem development on three conifer species in Italy. <i>Annals of Forest Science</i> , 2009, 66, 206-206.	0.8	78
23	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
24	Effects of temperature and water deficit on cambial activity and woody ring features in <i>Picea mariana</i> saplings. <i>Tree Physiology</i> , 2013, 33, 1006-1017.	1.4	70
25	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
26	On the need to consider wood formation processes in global vegetation models and a suggested approach. <i>Annals of Forest Science</i> , 2019, 76, 1.	0.8	59
27	Simulated responses of <i>Pinus halepensis</i> forest productivity to climatic change and CO ₂ increase using a statistical model. <i>Global and Planetary Change</i> , 2000, 26, 405-421.	1.6	58
28	Thinning has a positive effect on growth dynamics and growth-climate relationships in Aleppo pine (<i>Pinus halepensis</i>) trees of different crown classes. <i>Annals of Forest Science</i> , 2014, 71, 395-404.	0.8	57
29	Dendroecological analysis of climatic effects on <i>Quercus petraea</i> and <i>Pinus halepensis</i> radial growth using the process-based MAIDEN model. <i>Canadian Journal of Forest Research</i> , 2004, 34, 888-898.	0.8	52
30	Phenology of wood formation: Data processing, analysis and visualisation using R (package CAVIAR). <i>Dendrochronologia</i> , 2011, 29, 139-149.	1.0	52
31	How do drought and warming influence survival and wood traits of <i>Picea mariana</i> saplings?. <i>Journal of Experimental Botany</i> , 2015, 66, 377-389.	2.4	52
32	Linking intra-tree-ring wood density variations and tracheid anatomical characteristics in Douglas fir (<i>Pseudotsuga menziesii</i> (Mirb.) Franco). <i>Annals of Forest Science</i> , 2006, 63, 699-706.	0.8	51
33	Conifer tree-ring density inter-annual variability - anatomical, physiological and environmental determinants. <i>New Phytologist</i> , 2017, 216, 621-625.	3.5	42
34	Using a biogeochemistry model in simulating forests productivity responses to climatic change and [CO ₂] increase: example of <i>Pinus halepensis</i> in Provence (south-east France). <i>Ecological Modelling</i> , 2003, 166, 239-255.	1.2	40
35	Modelling wood formation and structure: power and limits of a morphogenetic gradient in controlling xylem cell proliferation and growth. <i>Annals of Forest Science</i> , 2017, 74, 1.	0.8	40
36	Observations sur la mise en place du cerne chez le pin d'Alep (<i>Pinus halepensis</i> Mill.) : confrontation entre les mesures de croissance radiale, de densité $\frac{1}{2}$ et les facteurs climatiques. <i>Annals of Forest Science</i> , 2001, 58, 769-784.	0.8	37

#	ARTICLE	IF	CITATIONS
37	Bioclimatic model of tree radial growth: application to the French Mediterranean Aleppo pine forests. <i>Trees - Structure and Function</i> , 2005, 19, 162-176.	0.9	36
38	Phenology of wood formation in larch (<i>Larix decidua</i> Mill.) trees growing along a 1000-m elevation gradient in the French Southern Alps. <i>Annals of Forest Science</i> , 2019, 76, 1.	0.8	32
39	CAVIAR: an R package for checking, displaying and processing wood-formation-monitoring data. <i>Tree Physiology</i> , 2018, 38, 1246-1260.	1.4	31
40	Missing Rings in <i>Pinus halepensis</i> – The Missing Link to Relate the Tree-Ring Record to Extreme Climatic Events. <i>Frontiers in Plant Science</i> , 2016, 7, 727.	1.7	27
41	Augmentation de productivité du chêne pubescent en région méditerranéenne française. <i>Annales Des Sciences Forestières</i> , 1999, 56, 211-219.	1.1	24
42	Ecophysiology and Plasticity of Wood and Phloem Formation. <i>Ecological Studies</i> , 2017, , 13-33.	0.4	23
43	Intra-annual stem growth dynamics of Lebanon Cedar along climatic gradients. <i>Trees - Structure and Function</i> , 2017, 31, 587-606.	0.9	22
44	CLIMATE CHANGE, TREE-RING WIDTH AND WOOD DENSITY OF PINES IN MEDITERRANEAN ENVIRONMENTS. <i>IAWA Journal</i> , 2015, 36, 257-269.	2.7	18
45	Quantifying intra-annual dynamics of carbon sequestration in the forming wood: a novel histologic approach. <i>Annals of Forest Science</i> , 2019, 76, 1.	0.8	16
46	Monitoring seasonal dynamics of wood formation. <i>Dendrochronologia</i> , 2011, 29, 123-125.	1.0	13
47	Identifying the main drivers for the production and maturation of Scots pine tracheids along a temperature gradient. <i>Agricultural and Forest Meteorology</i> , 2017, 232, 210-224.	1.9	13
48	Autecology and growth of Aleppo pine (<i>Pinus halepensis</i> Mill.): A comprehensive study in France. <i>Forest Ecology and Management</i> , 2018, 413, 32-47.	1.4	13
49	Modelling the spatial crosstalk between two biochemical signals explains wood formation dynamics and tree-ring structure. <i>Journal of Experimental Botany</i> , 2021, 72, 1727-1737.	2.4	13
50	Cutting tree rings into time slices: how intra-annual dynamics of wood formation help decipher the space-for-time conversion. <i>New Phytologist</i> , 2022, 233, 1520-1534.	3.5	13
51	Wood Formation Modeling – A Research Review and Future Perspectives. <i>Frontiers in Plant Science</i> , 2022, 13, 837648.	1.7	13
52	Improving identification of coppiced and seeded trees in past woodland management by comparing growth and wood anatomy of living sessile oaks (<i>Quercus petraea</i>). <i>Quaternary International</i> , 2018, 463, 219-231.	0.7	11
53	Spatio-temporal growth dynamics of a subAlpine <i>Pinus uncinata</i> stand in the French Alps. <i>Comptes Rendus - Biologies</i> , 2003, 326, 305-315.	0.1	7
54	Longer and faster: Intra-annual growth dynamics of Douglas fir outperform Norway spruce and silver fir over wide climatic gradients. <i>Agricultural and Forest Meteorology</i> , 2022, 321, 108970.	1.9	6

#	ARTICLE	IF	CITATIONS
55	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
56	Anatomical, Developmental and Physiological Bases of Tree-Ring Formation in Relation to Environmental Factors. <i>Tree Physiology</i> , 2022, , 61-99.	0.9	5
57	Évaluation de la productivité du Pin d'Alep en région méditerranéenne française. <i>Revue Forestière Française</i> , 2010, , .	0.0	4
58	Wood formation and tree adaptation to climate. <i>Annals of Forest Science</i> , 2019, 76, 1.	0.8	4
59	Seasonal time-course of the above ground biomass production efficiency in beech trees (<i>Fagus sylvatica</i>). <i>Tree Physiology</i> , 2021, 41, 1073-1083.	0.8	3
60	Reply to Elmendorf and Ettinger: Photoperiod plays a dominant and irreplaceable role in triggering secondary growth resumption. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 32865-32867.	3.3	2
61	Effet de la variabilité climatique et des événements extrêmes sur la croissance d' <i>Abies alba</i> , <i>Picea abies</i> et <i>Pinus sylvestris</i> en climat tempéré français. <i>Revue Forestière Française</i> , 2010, , .	0.0	0