

# Jan Van den Bulcke

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/8588671/jan-van-den-bulcke-publications-by-citations.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.

151  
papers

2,891  
citations

29  
h-index

45  
g-index

158  
ext. papers

3,526  
ext. citations

4  
avg, IF

5.26  
L-index

#	Paper	IF	Citations
151	Above-ground biomass and structure of 260 African tropical forests. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , <b>2013</b> , 368, 20120295	5.8	204
150	Oaks, tree-rings and wooden cultural heritage: a review of the main characteristics and applications of oak dendrochronology in Europe. <i>Journal of Archaeological Science</i> , <b>2009</b> , 36, 1-11	2.9	164
149	Biological control of the size and reactivity of catalytic Pd(0) produced by <i>Shewanella oneidensis</i> . <i>Antonie Van Leeuwenhoek</i> , <b>2006</b> , 90, 377-89	2.1	107
148	Recent micro-CT scanner developments at UGCT. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2014</b> , 324, 35-40	1.2	100
147	Conventional tree height-diameter relationships significantly overestimate aboveground carbon stocks in the Central Congo Basin. <i>Nature Communications</i> , <b>2013</b> , 4, 2269	17.4	81
146	High-resolution time series of vessel density in Kenyan mangrove trees reveal a link with climate. <i>New Phytologist</i> , <b>2005</b> , 167, 425-35	9.8	74
145	Comparative study of biomass determinants of 12 poplar ( <i>Populus</i> ) genotypes in a high-density short-rotation culture. <i>Forest Ecology and Management</i> , <b>2013</b> , 307, 101-111	3.9	68
144	The Salivary Protein Repertoire of the Polyphagous Spider Mite <i>Tetranychus urticae</i> : A Quest for Effectors. <i>Molecular and Cellular Proteomics</i> , <b>2016</b> , 15, 3594-3613	7.6	55
143	WOOD ANATOMY AND TRAIT-BASED ECOLOGY. <i>IAWA Journal</i> , <b>2016</b> , 37, 127-151	2.3	54
142	Pan-tropical prediction of forest structure from the largest trees. <i>Global Ecology and Biogeography</i> , <b>2018</b> , 27, 1366-1383	6.1	52
141	Scientific Merits and Analytical Challenges of Tree-Ring Densitometry. <i>Reviews of Geophysics</i> , <b>2019</b> , 57, 1224-1264	23.1	50
140	Fluctuations of cambial activity in relation to precipitation result in annual rings and intra-annual growth zones of xylem and phloem in teak ( <i>Tectona grandis</i> ) in Ivory Coast. <i>Annals of Botany</i> , <b>2012</b> , 110, 861-73	4.1	50
139	Thermal behaviour of cork and cork components. <i>Thermochimica Acta</i> , <b>2014</b> , 582, 94-100	2.9	48
138	X-ray tomography as a tool for detailed anatomical analysis. <i>Annals of Forest Science</i> , <b>2009</b> , 66, 508-508	3.1	48
137	Climate/growth relationships of <i>Brachystegia spiciformis</i> from the miombo woodland in south central Africa. <i>Dendrochronologia</i> , <b>2010</b> , 28, 161-171	2.8	42
136	Three-dimensional x-ray imaging and analysis of fungi on and in wood. <i>Microscopy and Microanalysis</i> , <b>2009</b> , 15, 395-402	0.5	42
135	3D tree-ring analysis using helical X-ray tomography. <i>Dendrochronologia</i> , <b>2014</b> , 32, 39-46	2.8	39

134	High-resolution proxies for wood density variations in <i>Terminalia superba</i> . <i>Annals of Botany</i> , <b>2011</b> , 107, 293-302	4.1	39
133	Strong gradients in nitrogen and carbon stocks at temperate forest edges. <i>Forest Ecology and Management</i> , <b>2016</b> , 376, 45-58	3.9	38
132	Species-Specific Growth Responses to Climate Variations in Understory Trees of a Central African Rain Forest. <i>Biotropica</i> , <b>2010</b> , 42, 503-511	2.3	38
131	Non-Destructive Evaluation Techniques and What They Tell Us about Wood Property Variation. <i>Forests</i> , <b>2019</b> , 10, 728	2.8	37
130	Unsupervised ridge detection using second order anisotropic Gaussian kernels. <i>Signal Processing</i> , <b>2015</b> , 116, 55-67	4.4	36
129	An experimental set-up for real-time continuous moisture measurements of plywood exposed to outdoor climate. <i>Building and Environment</i> , <b>2009</b> , 44, 2368-2377	6.5	35
128	A tree-ring based comparison of <i>Terminalia superba</i> climate-growth relationships in West and Central Africa. <i>Trees - Structure and Function</i> , <b>2013</b> , 27, 1225-1238	2.6	34
127	Three-dimensional imaging and analysis of infested coated wood with X-ray submicron CT. <i>International Biodeterioration and Biodegradation</i> , <b>2008</b> , 61, 278-286	4.8	33
126	Wood Specific Gravity Variations and Biomass of Central African Tree Species: The Simple Choice of the Outer Wood. <i>PLoS ONE</i> , <b>2015</b> , 10, e0142146	3.7	31
125	Environmental drivers interactively affect individual tree growth across temperate European forests. <i>Global Change Biology</i> , <b>2019</b> , 25, 201-217	11.4	31
124	Distinct growth responses to drought for oak and beech in temperate mixed forests. <i>Science of the Total Environment</i> , <b>2019</b> , 650, 3017-3026	10.2	30
123	Present-day central African forest is a legacy of the 19th century human history. <i>ELife</i> , <b>2017</b> , 6,	8.9	29
122	Moisture dynamics and fungal susceptibility of plywood. <i>International Biodeterioration and Biodegradation</i> , <b>2011</b> , 65, 708-716	4.8	28
121	Moisture dynamics of WPC and the impact on fungal testing. <i>International Biodeterioration and Biodegradation</i> , <b>2010</b> , 64, 65-72	4.8	28
120	A field-to-desktop toolchain for X-ray CT densitometry enables tree ring analysis. <i>Annals of Botany</i> , <b>2016</b> , 117, 1187-96	4.1	28
119	An inconvenient truth about xylem resistance to embolism in the model species for refilling <i>Laurus nobilis</i> L.. <i>Annals of Forest Science</i> , <b>2018</b> , 75, 1	3.1	28
118	Charcoal identification in species-rich biomes: A protocol for Central Africa optimised for the Mayumbe forest. <i>Review of Palaeobotany and Palynology</i> , <b>2012</b> , 171, 164-178	1.7	27
117	Tree-ring analysis of an African long-lived pioneer species as a tool for sustainable forest management. <i>Forest Ecology and Management</i> , <b>2013</b> , 304, 417-426	3.9	27

116	X-RAY SUB-MICRON TOMOGRAPHY AS A TOOL FOR THE STUDY OF ARCHAEOLOGICAL WOOD PRESERVED THROUGH THE CORROSION OF METAL OBJECTS. <i>Archaeometry</i> , <b>2012</b> , 54, 893-905	1.6	27
115	Practical use of the modified Bronnikov algorithm in micro-CT. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2009</b> , 267, 1182-1186	1.2	27
114	Quantitative measurement of the penetration of water-borne coatings in wood with confocal lasermicroscopy and image analysis. <i>European Journal of Wood and Wood Products</i> , <b>2003</b> , 61, 304-310	2.1	26
113	Impact of organosilicon treatments on the wood-water relationship of solid wood. <i>Holzforschung</i> , <b>2010</b> , 64,	2	24
112	Impact of internal structure on water-resistance of plywood studied using neutron radiography and X-ray tomography. <i>Construction and Building Materials</i> , <b>2014</b> , 73, 171-179	6.7	23
111	Experimental and theoretical behavior of exterior wood coatings subjected to artificial weathering <b>2008</b> , 5, 221-231		23
110	Automated image-based analysis of spatio-temporal fungal dynamics. <i>Fungal Genetics and Biology</i> , <b>2015</b> , 84, 12-25	3.9	22
109	Reconciling biodiversity and carbon stock conservation in an Afrotropical forest landscape. <i>Science Advances</i> , <b>2018</b> , 4, eaar6603	14.3	22
108	GROWTH-RING DISTINCTNESS AND BOUNDARY ANATOMY VARIABILITY IN TROPICAL TREES. <i>IAWA Journal</i> , <b>2016</b> , 37, 275-277	2.3	22
107	Charcoal-inferred Holocene fire and vegetation history linked to drought periods in the Democratic Republic of Congo. <i>Global Change Biology</i> , <b>2015</b> , 21, 2296-308	11.4	21
106	Outdoor weathering performance parameters of exterior wood coating systems on tropical hardwood substrates. <i>European Journal of Wood and Wood Products</i> , <b>2014</b> , 72, 261-272	2.1	20
105	The persistence of carbon in the African forest understory. <i>Nature Plants</i> , <b>2019</b> , 5, 133-140	11.5	19
104	Ancient charcoal as a natural archive for paleofire regime and vegetation change in the Mayumbe, Democratic Republic of the Congo. <i>Quaternary Research</i> , <b>2013</b> , 80, 326-340	1.9	19
103	Nondestructive research on wooden musical instruments: From macro- to microscale imaging with lab-based X-ray CT systems. <i>Journal of Cultural Heritage</i> , <b>2017</b> , 27, S78-S87	2.9	19
102	Inter-individual variability in spring phenology of temperate deciduous trees depends on species, tree size and previous year autumn phenology. <i>Agricultural and Forest Meteorology</i> , <b>2020</b> , 290, 108031	5.8	18
101	Swelling interactions of earlywood and latewood across a growth ring: global and local deformations. <i>Wood Science and Technology</i> , <b>2018</b> , 52, 91-114	2.5	18
100	Combining electrical resistance and 3-D X-ray computed tomography for moisture distribution measurements in wood products exposed in dynamic moisture conditions. <i>Building and Environment</i> , <b>2013</b> , 67, 250-259	6.5	18
99	Advanced X-ray CT scanning can boost tree ring research for earth system sciences. <i>Annals of Botany</i> , <b>2019</b> , 124, 837-847	4.1	17

98	Automated classification of wood transverse cross-section micro-imagery from 77 commercial Central-African timber species. <i>Annals of Forest Science</i> , <b>2017</b> , 74, 1	3.1	16
97	Comparison of species classification models of mass spectrometry data: Kernel Discriminant Analysis vs Random Forest; A case study of Afrormosia ( <i>Pericopsis elata</i> (Harms) Meeuwen). <i>Rapid Communications in Mass Spectrometry</i> , <b>2017</b> , 31, 1582-1588	2.2	16
96	Improving fast pyrolysis of lignin using three additives with different modes of action. <i>Green Chemistry</i> , <b>2020</b> , 22, 6471-6488	10	16
95	Timeline of autumn phenology in temperate deciduous trees. <i>Tree Physiology</i> , <b>2020</b> , 40, 1001-1013	4.2	15
94	Modelling three-dimensional fungal growth in response to environmental stimuli. <i>Journal of Theoretical Biology</i> , <b>2017</b> , 414, 35-49	2.3	15
93	Potential of X-ray computed tomography for 3D anatomical analysis and microdensitometrical assessment in wood research with focus on wood modification. <i>International Wood Products Journal</i> , <b>2013</b> , 4, 183-190	0.9	15
92	High-resolution X-ray imaging and analysis of coatings on and in wood <b>2010</b> , 7, 271-277		15
91	Wood Density Profiles and Their Corresponding Tissue Fractions in Tropical Angiosperm Trees. <i>Forests</i> , <b>2018</b> , 9, 763	2.8	15
90	The effect of polyploidization on tree hydraulic functioning. <i>American Journal of Botany</i> , <b>2018</b> , 105, 161-171		14
89	X-ray computed microtomography characterizes the wound effect that causes sap flow underestimation by thermal dissipation sensors. <i>Tree Physiology</i> , <b>2018</b> , 38, 287-301	4.2	14
88	The stability enigma of hydraulic vulnerability curves: addressing the link between hydraulic conductivity and drought-induced embolism. <i>Tree Physiology</i> , <b>2019</b> , 39, 1646-1664	4.2	14
87	Investigation on wax-impregnated wood. Part 2: Study of void spaces filled with air by He pycnometry, Hg intrusion porosimetry, and 3D X-ray imaging. <i>Holzforschung</i> , <b>2010</b> , 64,	2	14
86	Evaluating the robustness of three ring-width measurement methods for growth release reconstruction. <i>Dendrochronologia</i> , <b>2017</b> , 46, 67-76	2.8	13
85	Dendrochronological Potential in a Semi-Deciduous Rainforest: The Case of <i>Pericopsis elata</i> in Central Africa. <i>Forests</i> , <b>2014</b> , 5, 3087-3106	2.8	13
84	Complementary Imaging Techniques for Charcoal Examination and Identification. <i>IAWA Journal</i> , <b>2013</b> , 34, 147-168	2.3	13
83	Competition, tree age and size drive the productivity of mixed forests of pedunculate oak, beech and red oak. <i>Forest Ecology and Management</i> , <b>2018</b> , 430, 609-617	3.9	13
82	Tree ring responses to climate variability of xerophytic thickets from South Soalara, Madagascar. <i>Dendrochronologia</i> , <b>2018</b> , 49, 57-67	2.8	12
81	How Tightly Linked Are <i>Pericopsis elata</i> (Fabaceae) Patches to Anthropogenic Disturbances in Southeastern Cameroon?. <i>Forests</i> , <b>2015</b> , 6, 293-310	2.8	12

80	Preventive action of organosilicon treatments against disfigurement of wood under laboratory and outdoor conditions. <i>International Biodeterioration and Biodegradation</i> , <b>2009</b> , 63, 1093-1101	4.8	12
79	Image processing as a tool for assessment and analysis of blue stain discolouration of coated wood. <i>International Biodeterioration and Biodegradation</i> , <b>2005</b> , 56, 178-187	4.8	12
78	Penetration and Effectiveness of Micronized Copper in Refractory Wood Species. <i>PLoS ONE</i> , <b>2016</b> , 11, e0163124	3.7	12
77	Microstructure of chemically modified wood using X-ray computed tomography in relation to wetting properties. <i>Holzforschung</i> , <b>2017</b> , 71, 119-128	2	11
76	Using X-ray CT based tree-ring width data for tree growth trend analysis. <i>Dendrochronologia</i> , <b>2017</b> , 44, 66-75	2.8	11
75	Hierarchical structure of juvenile hybrid aspen xylem revealed using X-ray scattering and microtomography. <i>Trees - Structure and Function</i> , <b>2012</b> , 26, 1793-1804	2.6	11
74	Assessment of blue-stain resistance according to the EN 152 and a reverse test method using visual and computer-aided techniques. <i>International Biodeterioration and Biodegradation</i> , <b>2006</b> , 57, 229-238	4.8	11
73	A protocol for automated timber species identification using metabolome profiling. <i>Wood Science and Technology</i> , <b>2019</b> , 53, 953-965	2.5	10
72	Investigating the interaction between internal structural changes and water sorption of MDF and OSB using X-ray computed tomography. <i>Wood Science and Technology</i> , <b>2018</b> , 52, 701-716	2.5	10
71	The effect of water sorption/desorption on fatigue deflection of OSB. <i>Construction and Building Materials</i> , <b>2019</b> , 223, 1196-1203	6.7	10
70	Cork structural discontinuities studied with X-ray microtomography. <i>Holzforschung</i> , <b>2016</b> , 70, 87-94	2	9
69	Moisture behavior and structural changes of plywood during outdoor exposure. <i>European Journal of Wood and Wood Products</i> , <b>2016</b> , 74, 211-221	2.1	9
68	Influence of <i>Quercus petraea</i> Liebl. wood structure on the permeation of oxygen through wine barrel staves. <i>Holzforschung</i> , <b>2019</b> , 73, 859-870	2	9
67	Stable carbon and oxygen isotopes in tree rings show physiological responses of <i>Pericopsis elata</i> to precipitation in the Congo Basin. <i>Journal of Tropical Ecology</i> , <b>2016</b> , 32, 213-225	1.3	9
66	Postprocessing method for reducing phase effects in reconstructed microcomputed-tomography data. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , <b>2013</b> , 30, 455-61	1.8	8
65	Modelling fungal colonies and communities: challenges and opportunities. <i>IMA Fungus</i> , <b>2010</b> , 1, 155-9	6.8	8
64	Terrestrial laser scanning for non-destructive estimates of liana stem biomass. <i>Forest Ecology and Management</i> , <b>2020</b> , 456, 117751	3.9	8
63	Effect of operating conditions and feedstock composition on the properties of manganese oxide or quartz charcoal pellets for the use in ferroalloy industries. <i>Energy</i> , <b>2020</b> , 193, 116736	7.9	8

62	Cell wall dimensions reign supreme: cell wall composition is irrelevant for the temperature signal of latewood density/blue intensity in Scots pine. <i>Dendrochronologia</i> , <b>2021</b> , 65, 125785	2.8	8
61	Wood anatomy variability under contrasted environmental conditions of common deciduous and evergreen species from central African forests. <i>Trees - Structure and Function</i> , <b>2019</b> , 33, 893-909	2.6	7
60	Rate of forest recovery after fire exclusion on anthropogenic savannas in the Democratic Republic of Congo. <i>Biological Conservation</i> , <b>2019</b> , 233, 118-130	6.2	7
59	Modelling moisture conditions behind brick veneer cladding: Verification of common approaches by field measurements. <i>Journal of Building Physics</i> , <b>2020</b> , 44, 95-120	2.6	7
58	Climate driven trends in tree biomass increment show asynchronous dependence on tree-ring width and wood density variation. <i>Dendrochronologia</i> , <b>2018</b> , 48, 40-51	2.8	7
57	Cambial pinning relates wood anatomy to ecophysiology in the African tropical tree <i>Maesopsis eminii</i> . <i>Tree Physiology</i> , <b>2018</b> , 38, 232-242	4.2	7
56	Classification of uncoated plywood based on moisture dynamics. <i>Construction and Building Materials</i> , <b>2018</b> , 158, 814-822	6.7	7
55	Cambial activity in the understory of the Mayombe forest, DR Congo. <i>Trees - Structure and Function</i> , <b>2017</b> , 31, 49-61	2.6	7
54	Soil texture strongly controls exogenous organic matter mineralization indirectly via moisture upon progressive drying [Evidence from incubation experiments. <i>Soil Biology and Biochemistry</i> , <b>2020</b> , 151, 108051	7.5	7
53	Investigating water transport in MDF and OSB using a gantry-based X-ray CT scanning system. <i>Wood Science and Technology</i> , <b>2016</b> , 50, 1197-1211	2.5	6
52	The African timber tree <i>Entandrophragma congoense</i> (Pierre ex De Wild.) A.Chev. is morphologically and genetically distinct from <i>Entandrophragma angolense</i> (Welw.) C.DC. <i>Tree Genetics and Genomes</i> , <b>2018</b> , 14, 1	2.1	6
51	From leaf to label: A robust automated workflow for stomata detection. <i>Ecology and Evolution</i> , <b>2020</b> , 10, 9178-9191	2.8	6
50	Determining the effect of wind on the ballistic flight of fertiliser particles. <i>Biosystems Engineering</i> , <b>2016</b> , 151, 425-434	4.8	6
49	Density and density profile changes in birch and spruce caused by thermo-hydro treatment measured by X-ray computed tomography. <i>Wood Science and Technology</i> , <b>2019</b> , 53, 491-504	2.5	6
48	A generic platform for hyperspectral mapping of wood. <i>Wood Science and Technology</i> , <b>2017</b> , 51, 887-907	2.5	5
47	Analysis of spatio-temporal fungal growth dynamics under different environmental conditions. <i>IMA Fungus</i> , <b>2019</b> , 10, 7	6.8	5
46	Nitrogen Limitations on Microbial Degradation of Plant Substrates Are Controlled by Soil Structure and Moisture Content. <i>Frontiers in Microbiology</i> , <b>2018</b> , 9, 1433	5.7	5
45	Bouldering: an alternative strategy to long-vertical climbing in root-climbing hortensias. <i>Journal of the Royal Society Interface</i> , <b>2014</b> , 11,	4.1	5

44	Hygrothermal behaviour of timber frame walls finished with a brick veneer cladding. <i>Energy Procedia</i> , <b>2017</b> , 132, 363-368	2.3	5
43	Laboratory testing and computer simulation of blue stain growth on and in wood coatings. <i>International Biodeterioration and Biodegradation</i> , <b>2007</b> , 59, 137-147	4.8	5
42	Treatment of wood with atmospheric plasma discharge: study of the treatment process, dynamic wettability and interactions with a waterborne coating. <i>Holzforschung</i> , <b>2021</b> , 75, 603-613	2	5
41	Asynchronous leaf and cambial phenology in a tree species of the Congo Basin requires space-time conversion of wood traits. <i>Annals of Botany</i> , <b>2019</b> , 124, 245-253	4.1	4
40	Assessing the natural durability of xylarium specimens: mini-block testing and chemical fingerprinting for small-sized samples. <i>Wood Science and Technology</i> , <b>2020</b> , 54, 981-1000	2.5	4
39	Chemical Fingerprinting of Wood Sampled along a Pith-to-Bark Gradient for Individual Comparison and Provenance Identification. <i>Forests</i> , <b>2020</b> , 11, 107	2.8	4
38	Envelope treatment of wood based materials with concentrated organosilicons. <i>European Journal of Wood and Wood Products</i> , <b>2011</b> , 69, 397-406	2.1	4
37	Modelling film formation and degradation of semi-transparent exterior wood coatings. <i>Progress in Organic Coatings</i> , <b>2007</b> , 58, 1-12	4.8	4
36	X-ray microtomography and linear discriminant analysis enable detection of embolism-related acoustic emissions. <i>Plant Methods</i> , <b>2019</b> , 15, 153	5.8	4
35	Consequences of vertical basic wood density variation on the estimation of aboveground biomass with terrestrial laser scanning. <i>Trees - Structure and Function</i> , <b>2021</b> , 35, 671-684	2.6	4
34	Understanding the mechanical performance of OSB in compression tests. <i>Construction and Building Materials</i> , <b>2020</b> , 260, 119837	6.7	3
33	Historical Aerial Surveys Map Long-Term Changes of Forest Cover and Structure in the Central Congo Basin. <i>Remote Sensing</i> , <b>2020</b> , 12, 638	5	3
32	Cracking the code: real-time monitoring of wood drying and the occurrence of cracks. <i>Wood Science and Technology</i> , <b>2020</b> , 54, 1029-1049	2.5	3
31	Tree rings show a different climatic response in a managed and a non-managed plantation of teak ( <i>Tectona grandis</i> ) in West Africa. <i>IAWA Journal</i> , <b>2015</b> , 36, 409-427	2.3	3
30	A colour assessment methodology for oak wood. <i>Annals of Forest Science</i> , <b>2012</b> , 69, 939-946	3.1	3
29	The potential of plantations of <i>Terminalia superba</i> Engl. & Diels for wood and biomass production (Mayombe Forest, Democratic Republic of Congo). <i>Annals of Forest Science</i> , <b>2010</b> , 67, 501-501	3.1	3
28	Biomass increment and carbon sequestration in hedgerow-grown trees. <i>Dendrochronologia</i> , <b>2021</b> , 70, 125894	2.8	3
27	Timing of spring xylogenesis in temperate deciduous tree species relates to tree growth characteristics and previous autumn phenology. <i>Tree Physiology</i> , <b>2021</b> , 41, 1161-1170	4.2	3



26	Foliar and Wood Traits Covary along a Vertical Gradient within the Crown of Long-Lived Light-Demanding Species of the Congo Basin Semi-Deciduous Forest. <i>Forests</i> , <b>2020</b> , 11, 35	2.8	3
25	The effect of structural changes on the compressive strength of LVL. <i>Wood Science and Technology</i> , <b>2020</b> , 54, 1253-1267	2.5	3
24	High-Resolution X-Ray Computed Tomography: A New Workflow for the Analysis of Xylogenesis and Intra-Seasonal Wood Biomass Production. <i>Frontiers in Plant Science</i> , <b>2021</b> , 12, 698640	6.2	3
23	Sleeping beauties in materials science: unlocking the value of xylarium specimens in the search for timbers of the future. <i>Holzforschung</i> , <b>2019</b> , 73, 889-897	2	2
22	Micro-CT measurements of within-ring variability in longitudinal hydraulic pathways in Norway spruce. <i>IAWA Journal</i> , <b>2020</b> , 41, 12-29	2.3	2
21	Archaeological charcoals as archives for firewood preferences and vegetation composition during the late Holocene in the southern Mayumbe, Democratic Republic of the Congo (DRC). <i>Vegetation History and Archaeobotany</i> , <b>2013</b> , 23, 591	2.6	2
20	Physicochemical monitoring of wood coating degradation related to fungal disfigurement. <i>International Biodeterioration and Biodegradation</i> , <b>2007</b> , 59, 125-136	4.8	2
19	Deep learning segmentation of wood fiber bundles in fiberboards. <i>Composites Science and Technology</i> , <b>2022</b> , 221, 109287	8.6	2
18	Soil texture controls added organic matter mineralization by regulating soil moisture—evidence from a field experiment in a maritime climate. <i>Geoderma</i> , <b>2022</b> , 410, 115690	6.7	2
17	Relating MOE decrease and mass loss due to fungal decay in plywood and MDF using resonalyser and X-ray CT scanning. <i>International Biodeterioration and Biodegradation</i> , <b>2016</b> , 110, 113-120	4.8	2
16	Understanding the effect of growth ring orientation on the compressive strength perpendicular to the grain of thermally treated wood. <i>Wood Science and Technology</i> , <b>2021</b> , 55, 1439-1456	2.5	2
15	A lonely dot on the map: Exploring the climate signal in tree-ring density and stable isotopes of clanwilliam cedar, South Africa. <i>Dendrochronologia</i> , <b>2021</b> , 69, 125879	2.8	2
14	The Luki and Yangambi Biosphere Reserves: laboratories for climate change research and sustainable development. <i>IOP Conference Series: Earth and Environmental Science</i> , <b>2019</b> , 298, 012009	0.3	1
13	The Response of <i>Erica arborea</i> L. Tree Growth to Climate Variability at the Afro-alpine Tropical Highlands of North Ethiopia. <i>Forests</i> , <b>2020</b> , 11, 310	2.8	1
12	Unraveling the natural durability of wood: revealing the impact of decay-influencing characteristics other than fungicidal components. <i>Holzforschung</i> , <b>2021</b> , 75, 368-378	2	1
11	Within-Site Variability of Liana Wood Anatomical Traits: A Case Study in Laussat, French Guiana. <i>Forests</i> , <b>2020</b> , 11, 523	2.8	1
10	Direct analysis in real-time (DART) time-of-flight mass spectrometry (TOFMS) of wood reveals distinct chemical signatures of two species of <i>Afzelia</i> . <i>Annals of Forest Science</i> , <b>2021</b> , 78, 1	3.1	1
9	Investigating plywood behaviour in outdoor conditions. <i>International Wood Products Journal</i> , <b>2016</b> , 7, 220-224	0.9	1

8	Understanding the mechanical strength and dynamic structural changes of wood-based products using X-ray computed tomography. <i>Wood Material Science and Engineering</i> ,1-10	1.9	1
7	Understanding the impact of wood type and moisture on the bonding strength of glued wood. <i>Wood Material Science and Engineering</i> ,1-11	1.9	0
6	Height-diameter allometric equations of an emergent tree species from the Congo Basin. <i>Forest Ecology and Management</i> , <b>2022</b> , 504, 119822	3.9	0
5	Towards improving the assessment of rainforest carbon: Complementary evidence from repeated diameter measurements and dated wood. <i>Dendrochronologia</i> , <b>2020</b> , 62, 125723	2.8	0
4	Counter-Intuitive Response to Water Limitation in a Southern European Provenance of <i>Frangula alnus</i> Mill. in a Common Garden Experiment. <i>Forests</i> , <b>2020</b> , 11, 1186	2.8	0
3	Towards a More Realistic Simulation of Plant Species with a Dynamic Vegetation Model Using Field-Measured Traits: The Atlas Cedar, a Case Study. <i>Forests</i> , <b>2022</b> , 13, 446	2.8	0
2	Spatial patterns of light-demanding tree species in the Yangambi rainforest (Democratic Republic of Congo).. <i>Ecology and Evolution</i> , <b>2021</b> , 11, 18691-18707	2.8	0
1	Performance of wood and wood-based materials regarding fungal decay. <i>E3S Web of Conferences</i> , <b>2020</b> , 172, 20010	0.5	