

# Jan Van den Bulcke

## 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.

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	Deep learning segmentation of wood fiber bundles in fiberboards. <i>Composites Science and Technology</i> , <b>2022</b> , 221, 109287	8.6	2
150	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
149	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
148	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
147	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
146	Biomass increment and carbon sequestration in hedgerow-grown trees. <i>Dendrochronologia</i> , <b>2021</b> , 70, 125894	2.8	3
145	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
144	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
143	Direct analysis in real-time (DART) time-of-flight mass spectrometry (TOFMS) of wood reveals distinct chemical signatures of two species of <i>Azelaia</i> . <i>Annals of Forest Science</i> , <b>2021</b> , 78, 1	3.1	1
142	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
141	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
140	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
139	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
138	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
137	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
136	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
135	Timeline of autumn phenology in temperate deciduous trees. <i>Tree Physiology</i> , <b>2020</b> , 40, 1001-1013	4.2	15

134	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
133	Assessing the natural durability of xyarium 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
132	Understanding the mechanical performance of OSB in compression tests. <i>Construction and Building Materials</i> , <b>2020</b> , 260, 119837	6.7	3
131	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
130	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
129	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
128	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
127	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
126	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
125	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
124	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
123	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
122	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
121	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
120	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
119	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
118	Performance of wood and wood-based materials regarding fungal decay. <i>E3S Web of Conferences</i> , <b>2020</b> , 172, 20010	0.5	
117	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

116	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
115	Scientific Merits and Analytical Challenges of Tree-Ring Densitometry. <i>Reviews of Geophysics</i> , <b>2019</b> , 57, 1224-1264	23.1	50
114	Non-Destructive Evaluation Techniques and What They Tell Us about Wood Property Variation. <i>Forests</i> , <b>2019</b> , 10, 728	2.8	37
113	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
112	The persistence of carbon in the African forest understory. <i>Nature Plants</i> , <b>2019</b> , 5, 133-140	11.5	19
111	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
110	Analysis of spatio-temporal fungal growth dynamics under different environmental conditions. <i>IMA Fungus</i> , <b>2019</b> , 10, 7	6.8	5
109	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
108	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
107	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
106	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
105	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
104	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
103	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
102	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
101	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
100	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
99	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

98	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
97	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
96	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
95	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
94	Reconciling biodiversity and carbon stock conservation in an Afrotropical forest landscape. <i>Science Advances</i> , <b>2018</b> , 4, eaar6603	14.3	22
93	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
92	The effect of polyploidization on tree hydraulic functioning. <i>American Journal of Botany</i> , <b>2018</b> , 105, 161-171	14	14
91	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
90	Classification of uncoated plywood based on moisture dynamics. <i>Construction and Building Materials</i> , <b>2018</b> , 158, 814-822	6.7	7
89	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
88	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
87	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
86	Wood Density Profiles and Their Corresponding Tissue Fractions in Tropical Angiosperm Trees. <i>Forests</i> , <b>2018</b> , 9, 763	2.8	15
85	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
84	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
83	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
82	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
81	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

80	A generic platform for hyperspectral mapping of wood. <i>Wood Science and Technology</i> , <b>2017</b> , 51, 887-907	2.5	5
79	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
78	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
77	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
76	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
75	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
74	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
73	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
72	Present-day central African forest is a legacy of the 19th century human history. <i>ELife</i> , <b>2017</b> , 6,	8.9	29
71	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
70	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
69	GROWTH-RING DISTINCTNESS AND BOUNDARY ANATOMY VARIABILITY IN TROPICAL TREES. <i>IAWA Journal</i> , <b>2016</b> , 37, 275-S7	2.3	22
68	WOOD ANATOMY AND TRAIT-BASED ECOLOGY. <i>IAWA Journal</i> , <b>2016</b> , 37, 127-151	2.3	54
67	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
66	Cork structural discontinuities studied with X-ray microtomography. <i>Holzforschung</i> , <b>2016</b> , 70, 87-94	2	9
65	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
64	Penetration and Effectiveness of Micronized Copper in Refractory Wood Species. <i>PLoS ONE</i> , <b>2016</b> , 11, e0163124	3.7	12
63	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

62	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
61	Investigating plywood behaviour in outdoor conditions. <i>International Wood Products Journal</i> , <b>2016</b> , 7, 220-224	0.9	1
60	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
59	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
58	Unsupervised ridge detection using second order anisotropic Gaussian kernels. <i>Signal Processing</i> , <b>2015</b> , 116, 55-67	4.4	36
57	Automated image-based analysis of spatio-temporal fungal dynamics. <i>Fungal Genetics and Biology</i> , <b>2015</b> , 84, 12-25	3.9	22
56	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
55	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
54	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
53	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
52	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
51	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
50	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
49	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
48	3D tree-ring analysis using helical X-ray tomography. <i>Dendrochronologia</i> , <b>2014</b> , 32, 39-46	2.8	39
47	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
46	Thermal behaviour of cork and cork components. <i>Thermochimica Acta</i> , <b>2014</b> , 582, 94-100	2.9	48
45	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



44	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
43	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
42	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
41	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
40	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
39	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
38	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
37	Complementary Imaging Techniques for Charcoal Examination and Identification. <i>IAWA Journal</i> , <b>2013</b> , 34, 147-168	2.3	13
36	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
35	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
34	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
33	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
32	A colour assessment methodology for oak wood. <i>Annals of Forest Science</i> , <b>2012</b> , 69, 939-946	3.1	3
31	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
30	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
29	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
28	Moisture dynamics and fungal susceptibility of plywood. <i>International Biodeterioration and Biodegradation</i> , <b>2011</b> , 65, 708-716	4.8	28
27	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



26	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
25	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
24	Impact of organosilicon treatments on the wood-water relationship of solid wood. <i>Holzforschung</i> , <b>2010</b> , 64,	2	24
23	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
22	Modelling fungal colonies and communities: challenges and opportunities. <i>IMA Fungus</i> , <b>2010</b> , 1, 155-9	6.8	8
21	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
20	High-resolution X-ray imaging and analysis of coatings on and in wood <b>2010</b> , 7, 271-277		15
19	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
18	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
17	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
16	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
15	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
14	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
13	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
12	Experimental and theoretical behavior of exterior wood coatings subjected to artificial weathering <b>2008</b> , 5, 221-231		23
11	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
10	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
9	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

8	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
7	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
6	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
5	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
4	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
3	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
2	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
1	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