Geoffrey Daniel

List of Publications by Year
in descending order

182 papers	6,077 citations	66234 42 h-index	95083 68 g-index
188 all docs	188 docs citations	188 times ranked	7875 citing authors

#	Article	IF	Citations
1	Low molecular weight chelators and phenolic compounds isolated from wood decay fungi and their role in the fungal biodegradation of wood1This is paper 2084 of the Maine Agricultural and Forest Experiment Station.1. Journal of Biotechnology, 1997, 53, 133-162.	1.9	380
2	Cysteine protease mcII-Pa executes programmed cell death during plant embryogenesis. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 14463-14468.	3.3	228
3	Pyranose Oxidase, a Major Source of H ₂ O ₂ during Wood Degradation by <i>Phanerochaete chrysosporium, Trametes versicolor,</i> and <i>Oudemansiella mucida</i>. Applied and Environmental Microbiology, 1994, 60, 2524-2532.	1.4	182
4	Chemistry and Microscopy of Wood Decay by Some Higher Ascomycetes. Holzforschung, 1989, 43, 11-18.	0.9	170
5	Microbial decay of waterlogged archaeological wood found in Sweden Applicable to archaeology and conservation. International Biodeterioration and Biodegradation, 1999, 43, 63-73.	1.9	168
6	Title is missing!. Cellulose, 2001, 8, 103-111.	2.4	151
7	Ordered Network of Interconnected SnO₂ Nanoparticles for Excellent Lithiumâ€Ion Storage. Advanced Energy Materials, 2015, 5, 1401289.	10.2	147
8	Autophagy and metacaspase determine the mode of cell death in plants. Journal of Cell Biology, 2013, 203, 917-927.	2.3	142
9	Effect of harvest time and field retting duration on the chemical composition, morphology and mechanical properties of hemp fibers. Industrial Crops and Products, 2015, 69, 29-39.	2.5	141
10	Use of electron microscopy for aiding our understanding of wood biodegradation. FEMS Microbiology Reviews, 1994, 13, 199-233.	3.9	120
11	Characteristics of Gloeophyllum trabeum Alcohol Oxidase, an Extracellular Source of H 2 O 2 in Brown Rot Decay of Wood. Applied and Environmental Microbiology, 2007, 73, 6241-6253.	1.4	114
12	Intra- and Extracellular Localization of Lignin Peroxidase during the Degradation of Solid Wood and Wood Fragments by <i>Phanerochaete chrysosporium</i> by Using Transmission Electron Microscopy and Immuno-Gold Labeling. Applied and Environmental Microbiology, 1989, 55, 871-881.	1.4	112
13	Biomimetic engineering of cellulose-based materials. Trends in Biotechnology, 2007, 25, 299-306.	4.9	110
14	Depth of burial, an important factor in controlling bacterial decay of waterlogged archaeological poles. International Biodeterioration and Biodegradation, 2000, 45, 15-26.	1.9	101
15	Programmed cell death eliminates all but one embryo in a polyembryonic plant seed. Cell Death and Differentiation, 2002, 9, 1057-1062.	5.0	94
16	Modification of the nanostructure of lignocellulose cell walls via a non-enzymatic lignocellulose deconstruction system in brown rot wood-decay fungi. Biotechnology for Biofuels, 2017, 10, 179.	6.2	83
17	Light and scanning electron microscopy studies of the early infection stages of <i><scp>H</scp>ymenoscyphus pseudoalbidus</i> on <i><scp>F</scp>raxinus excelsior</i>. Plant Pathology, 2013, 62, 1294-1301.	1.2	75
18	Defence related reactions of seedling roots of Norway spruce to infection by Heterobasidion annosum (Fr.) Bref.. Physiological and Molecular Plant Pathology, 1994, 45, 1-19.	1.3	67

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19	Fructokinase is required for carbon partitioning to cellulose in aspen wood. Plant Journal, 2012, 70, 967-977.	2.8	64
20	Effect of pectin and hemicellulose removal from hemp fibres on the mechanical properties of unidirectional hemp/epoxy composites. Composites Part A: Applied Science and Manufacturing, 2016, 90, 724-735.	3.8	63
21	Pushing the theoretical capacity limits of iron oxide anodes: capacity rise of Î³-Fe₂O₃nanoparticles in lithium-ion batteries. Journal of Materials Chemistry A, 2016, 4, 18107-18115.	5.2	61
22	Hemp Fiber Microstructure and Use of Fungal Defibration to Obtain Fibers for Composite Materials. Journal of Natural Fibers, 2006, 2, 19-37.	1.7	59
23	Solution equilibrium behind the room-temperature synthesis of nanocrystalline titanium dioxide. Nanoscale, 2013, 5, 3330.	2.8	56
24	Effect of chitosan on physiological, morphological, and ultrastructural characteristics of wood-degrading fungi. International Biodeterioration and Biodegradation, 2008, 62, 116-124.	1.9	55
25	Iron-reducing capacity of low-molecular-weight compounds produced in wood by fungi. Holzforschung, 2006, 60, 630-636.	0.9	53
26	The ultrastructure of wood fibre surfaces as shown by a variety of microscopical methods â€“ a review. Nordic Pulp and Paper Research Journal, 1999, 14, 129-139.	0.3	52
27	Microview of Wood under Degradation by Bacteria and Fungi. ACS Symposium Series, 2003, , 34-72.	0.5	52
28	Use of a fluorescence labelled, carbohydrate-binding module from Phanerochaete chrysosporium Cel7D for studying wood cell wall ultrastructure. Biotechnology Letters, 2003, 25, 553-558.	1.1	51
29	Characterization and biological depectinization of hemp fibers originating from different stem sections. Industrial Crops and Products, 2015, 76, 880-891.	2.5	51
30	Controlled retting of hemp fibres: Effect of hydrothermal pre-treatment and enzymatic retting on the mechanical properties of unidirectional hemp/epoxy composites. Composites Part A: Applied Science and Manufacturing, 2016, 88, 253-262.	3.8	51
31	Carbon Nanotubes Produced from Natural Cellulosic Materials. Journal of Nanoscience and Nanotechnology, 2008, 8, 2472-2474.	0.9	50
32	Morphological and chemical characterisation of the G-layer in tension wood fibres of Populus tremula and Betula verrucosa: Labelling with cellulose-binding module CBM1 Hj Cel7A and fluorescence and FE-SEM microscopy. Holzforschung, 2006, 60, 618-624.	0.9	49
33	Comparison of composites made from fungal defibrated hemp with composites of traditional hemp yarn. Industrial Crops and Products, 2007, 25, 147-159.	2.5	49
34	Distribution of glucomannans and xylans in poplar xylem and their changes under tension stress. Planta, 2012, 236, 35-50.	1.6	49
35	Ultrastructural and Immunocytochemical Studies on the H ₂ O ₂ -Producing Enzyme Pyranose Oxidase in <i>Phanerochaete chrysosporium</i> Grown under Liquid Culture Conditions. Applied and Environmental Microbiology, 1992, 58, 3667-3676.	1.4	48
36	Imaging of wood tissue by ToF-SIMS: Critical evaluation and development of sample preparation techniques. Applied Surface Science, 2007, 253, 7569-7577.	3.1	46

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37	Changes in surface ultrastructure of Norway spruce fibres during kraft pulping â€" visualisation by field emission-SEM. Nordic Pulp and Paper Research Journal, 2000, 15, 54-61.	0.3	45
38	Pyranose oxidase and pyranosone dehydratase: enzymes responsible for conversion of d-glucose to cortalcerone by the basidiomycete Phanerochaete chrysosporium. Archives of Microbiology, 1991, 156, 297-301.	1.0	44
39	Pyranose 2-dehydrogenase, a novel sugar oxidoreductase from the basidiomycete fungus Agaricus bisporus. Archives of Microbiology, 1997, 167, 119-125.	1.0	44
40	The saprotrophic wood-degrading abilities of Heterobasidium annosum intersterility groups P and S. Mycological Research, 1998, 102, 991-997.	2.5	44
41	THE DISTRIBUTION OF ACIDIC AND ESTERIFIED PECTIN IN CAMBIUM, DEVELOPING XYLEM AND MATURE XYLEM OF PINUS SYLVESTRIS. IAWA Journal, 2000, 21, 157-168.	2.7	44
42	Improved material properties of solution-cast starch films: Effect of varying amylopectin structure and amylose content of starch from genetically modified potatoes. Carbohydrate Polymers, 2015, 130, 388-397.	5.1	44
43	Soft rot and multiple T-branching by the basidiomycete Oudemansiella mucida. Mycological Research, 1992, 96, 49-54.	2.5	41
44	Deposition of glucuronoxylans on the secondary cell wall of Japanese beech as observed by immuno-scanning electron microscopy. Protoplasma, 2000, 212, 72-79.	1.0	41
45	Ultrastructural observations of microbial succession and decay of wood buried at a Bronze Age archaeological site. International Biodeterioration and Biodegradation, 2001, 47, 165-173.	1.9	39
46	THE STRUCTURAL ORGANISATION OF THE S1 CELL WALL LAYER OF NORWAY SPRUCE TRACHEIDS. IAWA Journal, 2003, 24, 27-40.	2.7	39
47	Removal of Diclofenac, Paracetamol, and Carbamazepine from Model Aqueous Solutions by Magnetic Solâ€"Gel Encapsulated Horseradish Peroxidase and Lignin Peroxidase Composites. Nanomaterials, 2020, 10, 282.	1.9	39
48	Studies on the infection of Norway spruce roots by <i>Heterobasidion annosum</i>. Canadian Journal of Botany, 1993, 71, 1552-1561.	1.2	38
49	Fibril angle variability in earlywood of Norway spruce using soft rot cavities and polarization confocal microscopy. Journal of Wood Science, 2002, 48, 255-263.	0.9	38
50	Silica Nanocasts of Wood Fibers:Â A Study of Cell-Wall Accessibility and Structure. Biomacromolecules, 2004, 5, 1097-1101.	2.6	38
51	Decay resistance of wood treated with amino-silicone compounds. Holzforschung, 2008, 62, 112-118.	0.9	38
52	Spatial and temporal variability of xylan distribution in differentiating secondary xylem of hybrid aspen. Planta, 2012, 235, 1315-1330.	1.6	38
53	Comparison of traditional field retting and Phlebia radiata Cel 26 retting of hemp fibres for fibre-reinforced composites. AMB Express, 2017, 7, 58.	1.4	38
54	Screening of basidiomycete fungi for the quinone-dependent sugar C-2/C-3 oxidoreductase, pyranose dehydrogenase, and properties of the enzyme from Macrolepiota rhacodes. Archives of Microbiology, 2001, 176, 178-186.	1.0	37

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55	TEM/FE-SEM studies on tension wood fibres of Acer spp., Fagus sylvatica L. and Quercus robur L.. Wood Science and Technology, 2009, 43, 691-702.	1.4	37
56	High surface area ordered mesoporous nano-titania by a rapid surfactant-free approach. Journal of Materials Chemistry, 2012, 22, 20374.	6.7	37
57	Fungal and Bacterial Biodegradation: White Rots, Brown Rots, Soft Rots, and Bacteria. ACS Symposium Series, 2014, , 23-58.	0.5	35
58	Comparison of the Decay Behavior of Two White-Rot Fungi in Relation to Wood Type and Exposure Conditions. Microorganisms, 2020, 8, 1931.	1.6	35
59	Only C-2 specific glucose oxidase activity is expressed in ligninolytic cultures of the white rot fungus Phanerochaete chrysosporium. Archives of Microbiology, 1996, 165, 421-424.	1.0	34
60	The S2 Layer in the Tracheid Walls of Picea abies Wood: Inhomogeneity in Lignin Distribution and Cell Wall Microstructure. Holzforschung, 2001, 55, 373-378.	0.9	34
61	C-2 and C-3 oxidation of d-Glc, and C-2 oxidation of d-Gal by pyranose dehydrogenase from Agaricus bisporus. Carbohydrate Research, 1998, 310, 151-156.	1.1	33
62	Fungal Degradation of Wood Cell Walls. , 2016, , 131-167.		33
63	Cryo-FE-SEM & TEM immuno-techniques reveal new details for understanding white-rot decay of lignocellulose. Comptes Rendus - Biologies, 2004, 327, 861-871.	0.1	31
64	Chitosan-mediated changes in cell wall composition, morphology and ultrastructure in two wood-inhabiting fungi. Mycological Research, 2007, 111, 875-890.	2.5	31
65	Fundamental understanding of pulp property development under different thermomechanical pulp refining conditions as observed by a new Simonsâ€™ staining method and SEM observation of the ultrastructure of fibre surfaces. Holzforschung, 2011, 65, 777-786.	0.9	31
66	Conversion of d-glucose to d-erythro-hexos-2,3-diulose (2,3-diketo-d-glucose) by enzyme preparations from the basidiomycete Oudemansiella mucida. Carbohydrate Research, 1995, 278, 59-70.	1.1	29
67	C-3 oxidation of non-reducing sugars by a fungal pyranose dehydrogenase: spectral characterization. Journal of Molecular Catalysis B: Enzymatic, 2002, 17, 91-100.	1.8	29
68	Analysis of wood tissues by time-of-flight secondary ion mass spectrometry. Holzforschung, 2007, 61, 647-655.	0.9	28
69	Decay resistance of softwoods and hardwoods thermally modified by the Thermovouto type thermo-vacuum process to brown rot and white rot fungi. Holzforschung, 2016, 70, 877-884.	0.9	27
70	Effects of refining on the fibre structure of kraft pulps as revealed by FE-SEM and TEM: Influence of alkaline degradation. Holzforschung, 2004, 58, 226-232.	0.9	26
71	Analysis of the Surfaces of Wood Tissues and Pulp Fibers Using Carbohydrate-Binding Modules Specific for Crystalline Cellulose and Mannan. Biomacromolecules, 2007, 8, 91-97.	2.6	26
72	Synthetic xylan-binding modules for mapping of pulp fibres and wood sections. BMC Plant Biology, 2007, 7, 54.	1.6	26

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73	The effect of (induced) dislocations on the tensile properties of individual Norway spruce fibres. Holzforschung, 2008, 62, 77-81.	0.9	26
74	Genotypes of Fraxinus excelsior with different susceptibility to the ash dieback pathogen Hymenoscyphus pseudoalbidus and their response to the phytotoxin viridiol â€“ A metabolomic and microscopic study. Phytochemistry, 2014, 102, 115-125.	1.4	26
75	Ultrastructure of the S2 layer in relation to lignin distribution inPinus radiata tracheids. Journal of Wood Science, 2002, 48, 95-98.	0.9	25
76	Ultrastructure of the Attack of<i>Eusideroxylon zwageri</i>Wood by Tunnelling Bacteria. Holzforschung, 1992, 46, 361-368.	0.9	24
77	Affinity maturation generates greatly improved xyloglucan-specific carbohydrate binding modules. BMC Biotechnology, 2009, 9, 92.	1.7	24
78	Characterization of industrial and laboratory pulp fibres using HCl, Cellulase and FiberMaster analysis. Nordic Pulp and Paper Research Journal, 2005, 20, 115-121.	0.3	24
79	New product from old reaction: uniform magnetite nanoparticles from iron-mediated synthesis of alkali iodides and their protection from leaching in acidic media. RSC Advances, 2014, 4, 22606-22612.	1.7	23
80	Novel hydrophobization of wood by epoxidized linseed oil. Part 1. Process description and anti-swelling efficiency of the treated wood. Holzforschung, 2015, 69, 173-177.	0.9	23
81	Subcellular localization of Î2-glucosidase in rye, maize and wheat seedlings. Physiologia Plantarum, 2001, 111, 466-472.	2.6	22
82	Dislocations in Norway spruce fibres and their effect on properties of pulp and paper. Holzforschung, 2005, 59, 163-169.	0.9	22
83	Pyranosone dehydratase from the basidiomycete Phanerochaete chrysosporium: improved purification, and identification of 6-deoxy-d-glucosone and d-xylosone reaction products. Archives of Microbiology, 1993, 160, 27-34.	1.0	22
84	Use of monoclonal antibodies to detect Mn(II)-peroxidase in birch wood degraded by Phanerochaete chrysosporium. Applied Microbiology and Biotechnology, 1991, 35, 674-680.	1.7	21
85	Industrial Kiln Drying and its Effect on Microstructure, Impregnation and Properties of Scots Pine Timber Impregnated for Above Ground Use. Part 2. Effect of Drying on Microstructure and Some Mechanical Properties of Scots Pine Wood. Holzforschung, 2002, 56, 434-439.	0.9	21
86	Immunolocalization of hemicelluloses in Arabidopsis thaliana stem. Part I: temporal and spatial distribution of xylans. Planta, 2012, 236, 1275-1288.	1.6	21
87	Studies on preservative tolerant Phialophora species. International Biodeterioration, 1988, 24, 327-335.	0.2	20
88	General Facile Approach to Transitionâ€Metal Oxides with Highly Uniform Mesoporosity and Their Application as Adsorbents for Heavyâ€Metalâ€Ion Sequestration. Chemistry - A European Journal, 2014, 20, 10732-10736.	1.7	20
89	Chemical and ultrastructural changes of ash wood thermally modified using the thermo-vacuum process: I. Histo/cytochemical studies on changes in the structure and lignin chemistry. Holzforschung, 2015, 69, 603-613.	0.9	20
90	A Viable Electrode Material for Use in Microbial Fuel Cells for Tropical Regions. Energies, 2016, 9, 35.	1.6	19

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91	Î³-Tubulin has a conserved intrinsic property of self-polymerization into double stranded filaments and fibrillar networks. Biochimica Et Biophysica Acta - Molecular Cell Research, 2018, 1865, 734-748.	1.9	19
92	Second generation of portable gamma camera based on Caliste CdTe hybrid technology. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2018, 912, 338-342.	0.7	19
93	Immunocytochemical localization of pathogenesis-related proteins in roots of Norway spruce infected with Heterobasidion annosum. Forest Pathology, 1995, 25, 169-178.	0.5	18
94	Screening of Phlebiopsis gigantea isolates for traits associated with biocontrol of the conifer pathogen Heterobasidion annosum. Biological Control, 2011, 57, 118-129.	1.4	18
95	Characterization of fiber development in high- and low-consistency refining of primary mechanical pulp. Holzforschung, 2013, 67, 735-745.	0.9	18
96	A comparison of nanoindentation cell wall hardness and Brinell wood hardness in jack pine (Pinus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	1.4	18
97	Infection of <i>Picea abies</i> clones with a homokaryotic isolate of <i>Heterobasidion parviporum</i> under field conditions. Canadian Journal of Forest Research, 2015, 45, 227-235.	0.8	18
98	Basic Medium Heterogeneous Solution Synthesis of Î±-MnO2 Nanoflakes as an Anode or Cathode in Half Cell Configuration (vs. Lithium) of Li-Ion Batteries. Nanomaterials, 2018, 8, 608.	1.9	18
99	DEVELOPMENTAL LOCALIZATION OF HOMOGALACTURONAN AND XYLOGLUCAN EPITOPES IN PIT MEMBRANES VARIES BETWEEN PIT TYPES IN TWO POPLAR SPECIES. IAWA Journal, 2013, 34, 245-262.	2.7	17
100	Limnoria lignorum ingest bacterial and fungal degraded wood. European Journal of Wood and Wood Products, 1991, 49, 488-490.	1.3	16
101	Ultrastructural Localisation of Glucomannan in Kraft Pulp Fibres. Holzforschung, 2003, 57, 62-68.	0.9	16
102	Micro-morphological observations on spruce TMP fibre fractions with emphasis on fibre cell wall fibrillation and splitting. Nordic Pulp and Paper Research Journal, 2004, 19, 278-285.	0.3	16
103	Exploring Scots pine fibre development mechanisms during TMP processing: Impact of cell wall ultrastructure (morphological and topochemical) on negative behaviour. Holzforschung, 2008, 62, .	0.9	16
104	Titanium phosphonate oxo-alkoxide â€œclustersâ€: solution stability and facile hydrolytic transformation into nano titania. RSC Advances, 2020, 10, 6873-6883.	1.7	16
105	Mesoporous Anatase TiO₂ Nanorods as Thermally Robust Anode Materials for Liâ€Ion Batteries: Detailed Insight into the Formation Mechanism. Chemistry - A European Journal, 2013, 19, 17439-17444.	1.7	15
106	Fiber- and fine fractions-derived effects on pulp quality as a result of mechanical pulp refining consistency. Wood Science and Technology, 2014, 48, 737-753.	1.4	15
107	Chemical and ultrastructural changes of ash wood thermally modified (TMW) using the thermo-vacuum process: II. Immunocytochemical study of the distribution of noncellulosic polysaccharides. Holzforschung, 2015, 69, 615-625.	0.9	15
108	Effect of thermal modification on the durability and decay patterns of hardwoods and softwoods exposed to soft rot fungi. International Biodeterioration and Biodegradation, 2018, 127, 35-45.	1.9	15

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109	Elucidating field retting mechanisms of hemp fibres for biocomposites: Effects of microbial actions and interactions on the cellular micro-morphology and ultrastructure of hemp stems and bast fibres. BioResources, 2019, 14, 4047-4084.	0.5	15
110	Degradation of Scots pine and beech wood exposed in four test fields used forÂtesting of wood preservatives. International Biodeterioration and Biodegradation, 2013, 79, 20-27.	1.9	14
111	Ultrastructure and immunocytochemistry of degradation in spruce and ash sapwood by the brown rot fungus Postia placenta: Characterization of incipient stages of decay and variation inÂdecayÂprocess. International Biodeterioration and Biodegradation, 2015, 103, 161-178.	1.9	14
112	Use of Soft Rot Fungi for Studies on the Microstructure of Kapok (Ceiba pentandra (L.) Gaertn.) Fibre Cell Walls. Holzforschung, 2000, 54, 229-233.	0.9	13
113	High Variability in the Thickness of the S3 Layer in Pinus radiata Tracheids. Holzforschung, 2002, 56, 111-116.	0.9	13
114	Assessment of Effects of Chromated Copper Arsenate (CCA)?Treated Timber on Nontarget Epibiota by Investigation of Fouling Community Development at Seven European Sites. Archives of Environmental Contamination and Toxicology, 2003, 45, 37-47.	2.1	13
115	Immunolocalization of hemicelluloses in Arabidopsis thaliana stem. Part II: Mannan deposition is regulated by phase of development and its patterns of temporal and spatial distribution differ between cell types. Planta, 2012, 236, 1367-1379.	1.6	13
116	Chemical and ultrastructural changes in compound middle lamella (CML) regions of softwoods thermally modified by the Termovuoto process. Holzforschung, 2014, 68, 849-859.	0.9	13
117	Inocula selection in microbial fuel cells based on anodic biofilm abundance of Geobacter sulfurreducens. Chinese Journal of Chemical Engineering, 2016, 24, 379-387.	1.7	13
118	Immunolocalization of pectin and hemicellulose epitopes in the phloem of Norway spruce and Scots pine. Trees - Structure and Function, 2017, 31, 1335-1353.	0.9	13
119	Microstructure and compressive strength of gypsum-bonded composites with papers, paperboards and Tetra Pak recycled materials. Journal of Wood Science, 2019, 65, .	0.9	13
120	Palmdelphin Regulates Nuclear Resilience to Mechanical Stress in the Endothelium. Circulation, 2021, 144, 1629-1645.	1.6	13
121	Isolation and immunolocalization of a Pinus nigra lectin (PNL) during interaction with the necrotrophsâ€"Heterobasidion annosum and Fusarium avenaceum. Physiological and Molecular Plant Pathology, 2001, 59, 153-163.	1.3	12
122	Title is missing!. European Journal of Plant Pathology, 2001, 107, 191-207.	0.8	12
123	The saprotrophic wood-degrading abilities of <i>Rigidoporus microporus</i>. Silva Fennica, 2015, 49, .	0.5	12
124	Micromorphology and topochemistry of extractives in Scots pine and Norway spruce thermomechanical pulps: a cytochemical approach. Journal of Wood Science, 2008, 54, 134-142.	0.9	11
125	Detection and Measurement of Necrosis in Plants. Methods in Molecular Biology, 2013, 1004, 229-248.	0.4	11
126	Novel hydrophobization of wood by epoxidized linseed oil. Part 2. Characterization by FTIR spectroscopy and SEM, and determination of mechanical properties and field test performance. Holzforschung, 2015, 69, 179-186.	0.9	11

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127	Does copper tolerance provide a competitive advantage for degrading copper treated wood by soft rot fungi?. International Biodeterioration and Biodegradation, 2017, 117, 105-114.	1.9	11
128	Degradation of the Gelatinous Layer in Aspen and Rubberwood by the Blue Stain Fungus Lasiodiplodia Theobromae. IAWA Journal, 1997, 18, 107-115.	2.7	10
129	Distribution of methyl-esterified galacturonan in chemical and mechanical pulp fibers. Journal of Wood Science, 2003, 49, 361-365.	0.9	10
130	Three-dimensional imaging of a sawn surface: a comparison of confocal microscopy, scanning electron microscopy, and light microscopy combined with serial sectioning. Wood Science and Technology, 2007, 41, 551-564.	1.4	10
131	Carbonization of wood and nanostructures formed from the cell wall. International Biodeterioration and Biodegradation, 2009, 63, 933-935.	1.9	10
132	VARIATIONS IN CELL WALL ULTRASTRUCTURE AND CHEMISTRY IN CELL TYPES OF EARLYWOOD AND LATEWOOD IN ENGLISH OAK (QUERCUS ROBUR). IAWA Journal, 2016, 37, 383-401.	2.7	10
133	Characterization of spruce thermomechanical pulps at the fiber cell wall level: a method for quantitatively assessing pulp fiber development using Simonsâ€™ stain. Tappi Journal, 2010, 9, 47-55.	0.2	10
134	Possible Applications of Cellobiose Oxidizing and Other Flavine Adenine Dinucleotide Enzymes in the Pulp and Paper Industry. ACS Symposium Series, 1996, , 297-307.	0.5	9
135	Molecular identification and phylogenic analysis by sequencing theÂrDNA of copper-tolerant soft-rot Phialophora spp.. International Biodeterioration and Biodegradation, 2013, 82, 45-52.	1.9	9
136	Distributional variation of lignin and non-cellulosic polysaccharide epitopes in different pit membranes of Scots pine and Norway spruce seedlings. IAWA Journal, 2014, 35, 407-429.	2.7	9
137	Cytochemical and immunocytochemical characterization of wood decayed by the white rot fungus Pycnoporus sanguineus I. preferential lignin degradation prior to hemicelluloses in Norway spruce wood. International Biodeterioration and Biodegradation, 2015, 105, 30-40.	1.9	9
138	Use of Soft Rot Cavities to Determine Microfibril Angles in Wood; Advantages, Disadvantages and Possibilities. Holzforschung, 2002, 56, 468-472.	0.9	8
139	Ultrastructural aspects of fibre development during the stone groundwood process: New insights into derived pulp properties. Holzforschung, 2007, 61, 532-538.	0.9	8
140	Infection and disintegration of vascular tissues of non-suberized roots of spruce byHeterobasidion annosum and use of antibodies for characterizing infection. Mycopathologia, 1995, 129, 91-101.	1.3	7
141	Wood Anatomy of Three Lesser Known Species from Mozambique. IAWA Journal, 2009, 30, 277-291.	2.7	7
142	Copper tolerance of the soft-rot fungus Phialophora malorum grown in-vitro revealed by microscopy and global protein expression. International Biodeterioration and Biodegradation, 2019, 137, 147-152.	1.9	7
143	Microstructural and carbohydrate compositional changes induced by enzymatic saccharification of green seaweed from West Africa. Algal Research, 2020, 47, 101894.	2.4	7
144	Enzymatic hydrolysis of the gelatinous layer in tension wood of Salix varieties as a measure of accessible cellulose for biofuels. Biotechnology for Biofuels, 2021, 14, 141.	6.2	7

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145	LOSS OF STRENGTH IN BIOLOGICALLY DEGRADED THERMALLY MODIFIED WOOD. BioResources, 2012, 7, .	0.5	7
146	Structure and the Aging Process of Dry Archaeological Wood. Advances in Chemistry Series, 1989, , 67-86.	0.6	6
147	Effect of abnormal fibres on the mechanical properties of paper made from Norway spruce, Picea abies (L.) Karst.. Holzforschung, 2008, 62, 149-153.	0.9	6
148	Microscope Techniques for Understanding Wood Cell Structure and Biodegradation. , 2016, , 309-343.		6
149	Evaluation of Wood Quality Traits in SalixÂviminalis Useful for Biofuels: Characterization and Method Development. Forests, 2021, 12, 1048.	0.9	6
150	Bamboo (Bambusa vulgaris Schrad.) from Moist Forest and Derived Savanna Locations in South West Nigeria â€“ Properties and Gluability. BioResources, 2015, 10, .	0.5	6
151	Localization of xyloglucan epitopes in the gelatinous layer of developing and mature gelatinous fibers of European aspen (Populus tremula L.) tension wood. BioResources, 2019, 14, 7675-7686.	0.5	6
152	Electron microscopical observations and chemical analyses supporting Mn uptake in white rot degraded Alstonia and pine wood stakes exposed in acid coniferous soil. Canadian Journal of Microbiology, 1997, 43, 663-671.	0.8	5
153	SILICA-CAST REPLICAS FOR MORPHOLOGY STUDIES ON SPRUCE AND BIRCH XYLEM. IAWA Journal, 2004, 25, 155-164.	2.7	5
154	Brown rot decay of copper-chromated-phosphorus impregnated fence poles: Characterization by molecular analyses and microscopy. International Biodeterioration and Biodegradation, 2009, 63, 906-912.	1.9	5
155	Pressurised compressive chip pre-treatment of Norway spruce with a mill scale Impressafiner. Nordic Pulp and Paper Research Journal, 2012, 27, 56-62.	0.3	5
156	Immunocytochemical studies of axial resin canals. II. Localization of non-cellulosic polysaccharides in epithelium and subsidiary cells of Scots pine. IAWA Journal, 2014, 35, 253-269.	2.7	5
157	Cytochemical and immunocytochemical characterization of wood decayed by the white rot fungus Pycnoporus sanguineus II. Degradation of lignin and non-cellulosic polysaccharides in European ash wood. International Biodeterioration and Biodegradation, 2015, 105, 41-50.	1.9	5
158	Effect of thermal modification on the micromorphology of decay of hardwoods and softwoods by the white rot fungus Pycnoporus sanguineus. Holzforschung, 2018, 72, 797-811.	0.9	5
159	Energy calibration via correlation using an adaptive mesh refinement. EPJ Web of Conferences, 2020, 225, 01003.	0.1	5
160	Automatic measurement of compression wood cell attributes in fluorescence microscopy images. Journal of Microscopy, 2012, 246, 298-308.	0.8	4
161	DISTRIBUTION OF PHENOLIC COMPOUNDS, PECTINS AND HEMICELLULOSES IN MATURE PIT MEMBRANES AND ITS VARIATION BETWEEN PIT TYPES IN ENGLISH OAK XYLEM (QUERCUS ROBUR). IAWA Journal, 2016, 37, 402-419.	2.7	4
162	Mechanical properties and decay resistance of Scots pine (<i>Pinus sylvestris</i> L.) sapwood modified by vinyl acetate-epoxidized linseed oil copolymer. Holzforschung, 2016, 70, 885-894.	0.9	4

#	Article	IF	Citations
163	Heterogeneous distribution of pectin and hemicellulose epitopes in the phloem of four hardwood species. Trees - Structure and Function, 2018, 32, 393-414.	0.9	4
164	Method for characterizing extracellular proteins from the cell wall proteome of the copper tolerant fungus Phialophora malorum. International Biodeterioration and Biodegradation, 2019, 144, 104769.	1.9	4
165	The state and spatial distribution of extractives during birch kraft pulping, as evaluated by staining techniques. Nordic Pulp and Paper Research Journal, 2005, 20, 383-391.	0.3	4
166	Low dosage sulfite pretreatment in a modern TMP-line. Nordic Pulp and Paper Research Journal, 2015, 30, 591-598.	0.3	4
167	A bioassay for methylated galacturonan on pulp-fiber surfaces. Biotechnology Letters, 2003, 25, 859-862.	1.1	3
168	Distribution of lignin, pectins and hemicelluloses in tension wood fibers of European ash (Fraxinus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	2.7	3
169	Î³-Tubulin Complexes and Fibrillar Arrays: Two Conserved High Molecular Forms with Many Cellular Functions. Cells, 2021, 10, 776.	1.8	3
170	Surface and internal micro/ultrastructure of TMP fibres produced during high-intensity refining elucidate the development of pulp and paper properties. Holzforschung, 2012, 66, .	0.9	2
171	Immunocytochemical studies of axial resin canals. I. Localization of non-cellulosic polysaccharides in epithelium of Norway spruce xylem. IAWA Journal, 2014, 35, 236-252.	2.7	2
172	Phylogenic, molecular and decay analysis ofPhialophoraspecies causing soft rot of wood. International Wood Products Journal, 2015, 6, 189-197.	0.6	2
173	Comparative Wood Anatomy and Chemical Composition of Millettia mossambicensis and Millettia stuhlmannii from Mozambique. BioResources, 2018, 13, 3335-3345.	0.5	2
174	Development of fibre properties in mill scale high- and low consistency refining of thermomechanical pulp (Part 1). Nordic Pulp and Paper Research Journal, 2020, 35, 589-599.	0.3	2
175	Impact of Drying on the Quality of Bamboo Kraft Pulps. BioResources, 2012, 8, .	0.5	2
176	Microscopic evidence for wood cell wall degradation by actinomycetes. European Journal of Wood and Wood Products, 1990, 48, 360-360.	1.3	1
177	Impact of soil transfer between test fields on fungal diversity and wood durability. International Wood Products Journal, 2014, 5, 83-91.	0.6	1
178	Anatomical and Immunocoverage Observations on SuSy, C4H, and Pectate Lyase Family Protein Down-regulated Aspens Genotypes. BioResources, 2015, 10, .	0.5	1
179	The contribution of G-layer glucose in Salix clones for biofuels: comparative enzymatic and HPLC analysis of stem cross sections. , 2022, 15, 25.		1
180	The Biology and Microscopy of Building Molds: Medical and Molecular Aspects. ACS Symposium Series, 2008, , 182-197.	0.5	0

#	Article	IF	Citations
181	Chemoenzymatic modifications of charge in chemithermomechanical wood pulp. Nordic Pulp and Paper Research Journal, 2005, 20, 200-204.	0.3	0
182	Quantitative Evaluation of Hybrid Aspen Xylem and Immunolabeling Patterns Using Image Analysis and Multivariate Statistics. BioResources, 2015, 10, .	0.5	0