

# Ilze Irbe

## List of Publications by Year in descending order

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Version: 2024-02-01

27  
papers

374  
citations

759233

12  
h-index

794594

19  
g-index

27  
all docs

27  
docs citations

27  
times ranked

533  
citing authors

#	ARTICLE	IF	CITATIONS
1	On the changes of pinewood ( <i>Pinus sylvestris</i> L.) Chemical composition and ultrastructure during the attack by brown-rot fungi <i>Postia placenta</i> and <i>Coniophora puteana</i> . <i>International Biodeterioration and Biodegradation</i> , 2006, 57, 99-106.	3.9	61
2	Characterisation of the initial degradation stage of Scots pine ( <i>Pinus sylvestris</i> L.) sapwood after attack by brown-rot fungus <i>Coniophora puteana</i> . <i>Biodegradation</i> , 2011, 22, 719-728.	3.0	38
3	Lignocellulolytic activity of <i>Coniophora puteana</i> and <i>Trametes versicolor</i> in fermentation of wheat bran and decay of hydrothermally modified hardwoods. <i>International Biodeterioration and Biodegradation</i> , 2014, 86, 71-78.	3.9	30
4	Lignins as agents for bio-protection of wood. <i>Holzforschung</i> , 2011, 65, .	1.9	27
5	Novel Mycelium-Based Biocomposites (MBB) as Building Materials. <i>Journal of Renewable Materials</i> , 2020, 8, 1067-1076.	2.2	27
6	Biodeterioration of external wooden structures of the Latvian cultural heritage. <i>Journal of Cultural Heritage</i> , 2012, 13, S79-S84.	3.3	24
7	Mechanical and Air Permeability Performance of Novel Biobased Materials from Fungal Hyphae and Cellulose Fibers. <i>Materials</i> , 2021, 14, 136.	2.9	19
8	Application of scanning UV microspectrophotometry for the topochemical detection of lignin within individual cell walls of brown-rotted Scots pine ( <i>Pinus sylvestris</i> L.) sapwood. <i>Holzforschung</i> , 2006, 60, 601-607.	1.9	17
9	Use of <sup>13</sup> C NMR, sorption and chemical analyses for characteristics of brown-rotted Scots pine. <i>International Biodeterioration and Biodegradation</i> , 2001, 47, 37-45.	3.9	16
10	Characterization of Novel Biopolymer Blend Mycocel from Plant Cellulose and Fungal Fibers. <i>Polymers</i> , 2021, 13, 1086.	4.5	16
11	Modelling the Material Resistance of Wood – Part 3: Relative Resistance in above- and in-Ground Situations – Results of a Global Survey. <i>Forests</i> , 2021, 12, 590.	2.1	16
12	Modelling the Material Resistance of Wood – Part 2: Validation and Optimization of the Meyer-Veltrup Model. <i>Forests</i> , 2021, 12, 576.	2.1	13
13	Study of the structure of biodegraded wood using the water vapour sorption method. <i>International Biodeterioration and Biodegradation</i> , 2006, 58, 162-167.	3.9	8
14	Susceptibility of thermo-hydro-treated birch plywood to mould and blue stain fungi. <i>Wood Material Science and Engineering</i> , 2018, 13, 296-304.	2.3	7
15	Alternative wood preservation method: double treatment and its effectiveness against wood decay fungi. <i>European Journal of Wood and Wood Products</i> , 2020, 78, 1233-1247.	2.9	7
16	Evaluation of water related properties of birch wood products modified with different molecular weight phenol-formaldehyde oligomers. <i>Holzforschung</i> , 2021, 75, 908-916.	1.9	7
17	Scanning UV microspectrophotometry as a tool to study the changes of lignin in hydrothermally modified wood. <i>Holzforschung</i> , 2016, 70, 215-221.	1.9	6
18	Thermo-hydro treated (THT) birch veneers for producing plywood with improved properties. <i>Holzforschung</i> , 2016, 70, 739-746.	1.9	6

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19	Water Related Properties of Birch Wood Modified with Phenol-Formaldehyde (PF) Resins. Key Engineering Materials, 2019, 800, 246-250.	0.4	6
20	Thermo-hydro treated (THT) birch plywood with improved service properties. International Wood Products Journal, 2016, 7, 181-187.	1.1	5
21	Hydrolytic enzyme activity of EN113 standard basidiomycetes in the fermentation of lignocellulosic material and wood colonization. Holzforschung, 2012, 66, 841-847.	1.9	4
22	Study of the sorption-desorption properties of pine wood at the initial stage of decay by wood-rot fungi 10th EWLP, Stockholm, Sweden, August 25â€“28, 2008. Holzforschung, 2009, 63, .	1.9	3
23	Chemistry and kraft pulping of seven hybrid aspen clones. Dimension measurements on the vessels and UMSP of the cell walls. Holzforschung, 2013, 67, 505-510.	1.9	3
24	Moisture and decay resistance and reaction to fire properties of self-binding fibreboard made from steam-exploded grey alder wood. Wood Material Science and Engineering, 0, , 1-9.	2.3	3
25	Impact of biodeterioration on structure and composition of waterlogged foundation piles from Riga Cathedral (1211â€“CE), Latvia. Journal of Archaeological Science: Reports, 2019, 23, 196-202.	0.5	3
26	Properties of modified wood according to treatment technology and thermo-vacuum process for birch (Betula pendula Roth) veneers. BioResources, 2020, 15, 4150-4164.	1.0	2
27	Organoclay additive for plywood protection against brown and white rot fungi. , 2018, , .		0