Ilze Irbe

List of Publications by Year
in descending order

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	Characterization of Novel Biopolymer Blend Mycocel from Plant Cellulose and Fungal Fibers. Polymers, 2021, 13, 1086.	4.5	16
2	Evaluation of water related properties of birch wood products modified with different molecular weight phenol-formaldehyde oligomers. Holzforschung, 2021, 75, 908-916.	1.9	7
3	Modelling the Material Resistance of Woodâ€"Part 3: Relative Resistance in above- and in-Ground Situationsâ€"Results of a Global Survey. Forests, 2021, 12, 590.	2.1	16
4	Modelling the Material Resistance of Woodâ€"Part 2: Validation and Optimization of the Meyer-Veltrup Model. Forests, 2021, 12, 576.	2.1	13
5	Mechanical and Air Permeability Performance of Novel Biobased Materials from Fungal Hyphae and Cellulose Fibers. Materials, 2021, 14, 136.	2.9	19
6	Novel Mycelium-Based Biocomposites (MBB) as Building Materials. Journal of Renewable Materials, 2020, 8, 1067-1076.	2.2	27
7	Alternative wood preservation method: double treatment and its effectiveness against wood decay fungi. European Journal of Wood and Wood Products, 2020, 78, 1233-1247.	2.9	7
8	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
9	Water Related Properties of Birch Wood Modified with Phenol-Formaldehyde (PF) Resins. Key Engineering Materials, 2019, 800, 246-250.	0.4	6
10	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
11	Susceptibility of thermo-hydro-treated birch plywood to mould and blue stain fungi. Wood Material Science and Engineering, 2018, 13, 296-304.	2.3	7
12	Organoclay additive for plywood protection against brown and white rot fungi. , 2018, , .		0
13	Thermo-hydro treated (THT) birch plywood with improved service properties. International Wood Products Journal, 2016, 7, 181-187.	1.1	5
14	Scanning UV microspectrophotometry as a tool to study the changes of lignin in hydrothermally modified wood. Holzforschung, 2016, 70, 215-221.	1.9	6
15	Thermo-hydro treated (THT) birch veneers for producing plywood with improved properties. Holzforschung, 2016, 70, 739-746.	1.9	6
16	Lignocellulolytic activity of Coniophora puteana and Trametes versicolor in fermentation of wheat bran and decay of hydrothermally modified hardwoods. International Biodeterioration and Biodegradation, 2014, 86, 71-78.	3.9	30
17	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
18	Hydrolytic enzyme activity of EN113 standard basidiomycetes in the fermentation of lignocellulosic material and wood colonization. Holzforschung, 2012, 66, 841-847.	1.9	4

#	Article	IF	Citations
19	Biodeterioration of external wooden structures of the Latvian cultural heritage. Journal of Cultural Heritage, 2012, 13, S79-S84.	3.3	24
20	Characterisation of the initial degradation stage of Scots pine (Pinus sylvestris L.) sapwood after attack by brown-rot fungus Coniophora puteana. Biodegradation, 2011, 22, 719-728.	3.0	38
21	Lignins as agents for bio-protection of wood. Holzforschung, 2011, 65, .	1.9	27
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	On the changes of pinewood (Pinus sylvestris L.) Chemical composition and ultrastructure during the attack by brown-rot fungi Postia placenta and Coniophora puteana. International Biodeterioration and Biodegradation, 2006, 57, 99-106.	3.9	61
24	Study of the structure of biodegraded wood using the water vapour sorption method. International Biodeterioration and Biodegradation, 2006, 58, 162-167.	3.9	8
25	Application of scanning UV microspectrophotometry for the topochemical detection of lignin within individual cell walls of brown-rotted Scots pine (Pinus sylvestris L.) sapwood. Holzforschung, 2006, 60, 601-607.	1.9	17
26	Use of 13C NMR, sorption and chemical analyses for characteristics of brown-rotted Scots pine. International Biodeterioration and Biodegradation, 2001, 47, 37-45.	3.9	16
27	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