Petr Cermak

List of Publications by Year in descending order

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DETD CEDMAK

#	Article	IF	CITATIONS
1	Decay resistance of ammonia-plasticised and densified beech wood. Wood Material Science and Engineering, 2023, 18, 172-183.	1.1	1
2	Wood-water interactions of thermally modified, acetylated and melamine formaldehyde resin impregnated beech wood. Holzforschung, 2022, 76, 437-450.	0.9	23
3	Changes in forest nitrogen cycling across deposition gradient revealed by δ15N in tree rings. Environmental Pollution, 2022, 304, 119104.	3.7	5
4	Effect of hemp oil impregnation and thermal modification on European beech wood properties. European Journal of Wood and Wood Products, 2021, 79, 161-175.	1.3	11
5	Mass loss kinetics of thermally modified wood species as a time–temperature function. European Journal of Wood and Wood Products, 2021, 79, 547-555.	1.3	12
6	Swelling kinetics of thermally modified wood. European Journal of Wood and Wood Products, 2021, 79, 1337-1340.	1.3	5
7	Effect of One-Sided Surface Charring of Beech Wood on Density Profile and Surface Wettability. Applied Sciences (Switzerland), 2021, 11, 4086.	1.3	9
8	Surface Modification of Spruce and Fir Sawn-Timber by Charring in the Traditional Japanese Method—Yakisugi. Polymers, 2021, 13, 1662.	2.0	14
9	Surface Characteristics of One-Sided Charred Beech Wood. Polymers, 2021, 13, 1551.	2.0	17
10	Interaction between Thermal Modification Temperature of Spruce Wood and the Cutting and Fracture Parameters. Materials, 2021, 14, 6218.	1.3	7
11	Effect of chemical and thermal modification, and material replacement on strand board properties. European Journal of Wood and Wood Products, 2020, 78, 565-575.	1.3	4
12	Neutral Axis in Thermally Modified Timber Determined by Image-Based Approach. Journal of Testing and Evaluation, 2020, 48, 3324-3330.	0.4	2
13	Thermally modified (TM) beech wood: compression properties, fracture toughness and cohesive law in mode II obtained from the three-point end-notched flexure (3ENF) test. Holzforschung, 2019, 73, 663-672.	0.9	6
14	One-sided surface charring of beech wood. Journal of Materials Science, 2019, 54, 9497-9506.	1.7	22
15	Site and age-dependent responses of Picea abies growth to climate variability. European Journal of Forest Research, 2019, 138, 445-460.	1.1	8
16	Density profile and microstructural analysis of densified beech wood (Fagus sylvatica L.) plasticized by microwave treatment. European Journal of Wood and Wood Products, 2018, 76, 105-111.	1.3	13
17	Sorption-Related Characteristics of Surface Charred Spruce Wood. Materials, 2018, 11, 2083.	1.3	27
18	Ungulate Browsing Limits Bird Diversity of the Central European Hardwood Floodplain Forests. Forests, 2018, 9, 373.	0.9	10

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19	Temporal changes in the climate sensitivity of Norway spruce and European beech along an elevation gradient in Central Europe. Agricultural and Forest Meteorology, 2017, 239, 24-33.	1.9	97
20	Antifungal effects of copper and silver nanoparticles against white and brown-rot fungi. Journal of Materials Science, 2017, 52, 2720-2729.	1.7	41
21	Unevenly distributed thermal treatment of wood: preliminary study—density profiles. European Journal of Wood and Wood Products, 2016, 74, 629-631.	1.3	2
22	The effect of wetting cycles on moisture behaviour of thermally modified Scots pine (Pinus sylvestris) Tj ETQq0 0	0 <u>1 g</u> BT /O	verlock 10 Tf
23	Pollution control enhanced spruce growth in the "Black Triangle―near the Czech–Polish border. Science of the Total Environment, 2015, 538, 703-711.	3.9	82
24	Application of Microwave Heating for Acetylation of Beech (Fagus sylvatica L.) and Poplar (Populus) Tj ETQq0 0 0	rgBT /Ove	erlgck 10 Tf 5
25	Influence of Welding Time on Tensile-Shear Strength of Linear Friction Welded Birch (Betula pendula) Tj ETQq1 1	0.784314 0.5	• rgBT /Overlo
26	Analysis of Dimensional Stability of Thermally Modified Wood Affected by Re-Wetting Cycles. BioResources, 2015, 10, .	0.5	35
27	Numerical analysis of temperature profiles during thermal modification of wood: chemical reactions and experimental verification. Holzforschung, 2015, 69, 321-328.	0.9	2
28	Reducing the moisture sensitivity of linear friction welded birch (<i>Betula pendula</i> L.) wood through thermal modification. Journal of Adhesion Science and Technology, 2015, 29, 2461-2474.	1.4	9
29	Exploring Growth Variability and Crown Vitality of Sessile Oak (Quercus Petraea) in the Czech Republic. Geochronometria, 2015, 42, .	0.2	16
30	Measured temperature and moisture profiles during thermal modification of beech (<i>Fagus) Tj ETQq0 0 0 rgBT</i>	/Overlock	10 Tf 50 302 10
31	Comparison of selected physical and mechanical properties of densified beech wood plasticized by ammonia and saturated steam. European Journal of Wood and Wood Products, 2014, 72, 583-591.	1.3	43
32	Heat distribution in thermally modified timber. European Journal of Wood and Wood Products, 2013, 71, 827-830.	1.3	1
33	The effect of heat and ammonia treatment on colour response of oak wood (Quercus robur) and comparison of some physical and mechanical properties. Maderas: Ciencia Y Tecnologia, 2013, , 0-0.	0.7	8
34	Influence of uncertainty in diffusion coefficients on moisture field during wood drying. International Journal of Heat and Mass Transfer, 2012, 55, 7709-7717.	2.5	9
35	Growth responses of Norway spruce (Picea abies (L.) Karst.) to the climate in the south-eastern part of the Českomoravská Upland (Czech Republic). Geochronometria, 2012, 39, 149-157.	0.2	13