

Petr Cermak

List of Publications by Year in descending order

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papers

590
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858243

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35
times ranked

781
citing authors

#	ARTICLE	IF	CITATIONS
1	Decay resistance of ammonia-plasticised and densified beech wood. <i>Wood Material Science and Engineering</i> , 2023, 18, 172-183.	1.1	1
2	Wood-water interactions of thermally modified, acetylated and melamine formaldehyde resin impregnated beech wood. <i>Holzforschung</i> , 2022, 76, 437-450.	0.9	23
3	Changes in forest nitrogen cycling across deposition gradient revealed by $\delta^{15}\text{N}$ in tree rings. <i>Environmental Pollution</i> , 2022, 304, 119104.	3.7	5
4	Effect of hemp oil impregnation and thermal modification on European beech wood properties. <i>European Journal of Wood and Wood Products</i> , 2021, 79, 161-175.	1.3	11
5	Mass loss kinetics of thermally modified wood species as a time-temperature function. <i>European Journal of Wood and Wood Products</i> , 2021, 79, 547-555.	1.3	12
6	Swelling kinetics of thermally modified wood. <i>European Journal of Wood and Wood Products</i> , 2021, 79, 1337-1340.	1.3	5
7	Effect of One-Sided Surface Charring of Beech Wood on Density Profile and Surface Wettability. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 4086.	1.3	9
8	Surface Modification of Spruce and Fir Sawn-Timber by Charring in the Traditional Japanese Method "Yakisugi". <i>Polymers</i> , 2021, 13, 1662.	2.0	14
9	Surface Characteristics of One-Sided Charred Beech Wood. <i>Polymers</i> , 2021, 13, 1551.	2.0	17
10	Interaction between Thermal Modification Temperature of Spruce Wood and the Cutting and Fracture Parameters. <i>Materials</i> , 2021, 14, 6218.	1.3	7
11	Effect of chemical and thermal modification, and material replacement on strand board properties. <i>European Journal of Wood and Wood Products</i> , 2020, 78, 565-575.	1.3	4
12	Neutral Axis in Thermally Modified Timber Determined by Image-Based Approach. <i>Journal of Testing and Evaluation</i> , 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. <i>Holzforschung</i> , 2019, 73, 663-672.	0.9	6
14	One-sided surface charring of beech wood. <i>Journal of Materials Science</i> , 2019, 54, 9497-9506.	1.7	22
15	Site and age-dependent responses of <i>Picea abies</i> growth to climate variability. <i>European Journal of Forest Research</i> , 2019, 138, 445-460.	1.1	8
16	Density profile and microstructural analysis of densified beech wood (<i>Fagus sylvatica</i> L.) plasticized by microwave treatment. <i>European Journal of Wood and Wood Products</i> , 2018, 76, 105-111.	1.3	13
17	Sorption-Related Characteristics of Surface Charred Spruce Wood. <i>Materials</i> , 2018, 11, 2083.	1.3	27
18	Ungulate Browsing Limits Bird Diversity of the Central European Hardwood Floodplain Forests. <i>Forests</i> , 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. <i>Agricultural and Forest Meteorology</i> , 2017, 239, 24-33.	1.9	97
20	Antifungal effects of copper and silver nanoparticles against white and brown-rot fungi. <i>Journal of Materials Science</i> , 2017, 52, 2720-2729.	1.7	41
21	Unevenly distributed thermal treatment of wood: preliminary study of density profiles. <i>European Journal of Wood and Wood Products</i> , 2016, 74, 629-631.	1.3	2
22	The effect of wetting cycles on moisture behaviour of thermally modified Scots pine (<i>Pinus sylvestris</i>)	1.7	19
23	Pollution control enhanced spruce growth in the "Black Triangle" near the Czech-Polish border. <i>Science of the Total Environment</i> , 2015, 538, 703-711.	3.9	82
24	Application of Microwave Heating for Acetylation of Beech (<i>Fagus sylvatica</i> L.) and Poplar (<i>Populus</i>)	0.5	8
25	Influence of Welding Time on Tensile-Shear Strength of Linear Friction Welded Birch (<i>Betula pendula</i>)	0.5	4
26	Analysis of Dimensional Stability of Thermally Modified Wood Affected by Re-Wetting Cycles. <i>BioResources</i> , 2015, 10, .	0.5	35
27	Numerical analysis of temperature profiles during thermal modification of wood: chemical reactions and experimental verification. <i>Holzforschung</i> , 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. <i>Journal of Adhesion Science and Technology</i> , 2015, 29, 2461-2474.	1.4	9
29	Exploring Growth Variability and Crown Vitality of Sessile Oak (<i>Quercus Petraea</i>) in the Czech Republic. <i>Geochronometria</i> , 2015, 42, .	0.2	16
30	Measured temperature and moisture profiles during thermal modification of beech (<i>Fagus</i>)	0.9	10
31	Comparison of selected physical and mechanical properties of densified beech wood plasticized by ammonia and saturated steam. <i>European Journal of Wood and Wood Products</i> , 2014, 72, 583-591.	1.3	43
32	Heat distribution in thermally modified timber. <i>European Journal of Wood and Wood Products</i> , 2013, 71, 827-830.	1.3	1
33	The effect of heat and ammonia treatment on colour response of oak wood (<i>Quercus robur</i>) and comparison of some physical and mechanical properties. <i>Maderas: Ciencia Y Tecnologia</i> , 2013, , 0-0.	0.7	8
34	Influence of uncertainty in diffusion coefficients on moisture field during wood drying. <i>International Journal of Heat and Mass Transfer</i> , 2012, 55, 7709-7717.	2.5	9
35	Growth responses of Norway spruce (<i>Picea abies</i> (L.) Karst.) to the climate in the south-eastern part of the "Eskomoravská" Upland (Czech Republic). <i>Geochronometria</i> , 2012, 39, 149-157.	0.2	13