Petr Cermak

List of Publications by Year in descending order

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35 papers	590 citations	759233 12 h-index	642732 23 g-index
35 all docs	35 docs citations	35 times ranked	710 citing authors

#	Article	IF	Citations
1	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.	4.8	97
2	Pollution control enhanced spruce growth in the â€œBlack Triangleâ€•near the Czechâ€“Polish border. Science of the Total Environment, 2015, 538, 703-711.	8.0	82
3	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.	2.9	43
4	Antifungal effects of copper and silver nanoparticles against white and brown-rot fungi. Journal of Materials Science, 2017, 52, 2720-2729.	3.7	41
5	Analysis of Dimensional Stability of Thermally Modified Wood Affected by Re-Wetting Cycles. BioResources, 2015, 10, .	1.0	35
6	Sorption-Related Characteristics of Surface Charred Spruce Wood. Materials, 2018, 11, 2083.	2.9	27
7	Wood-water interactions of thermally modified, acetylated and melamine formaldehyde resin impregnated beech wood. Holzforschung, 2022, 76, 437-450.	1.9	23
8	One-sided surface charring of beech wood. Journal of Materials Science, 2019, 54, 9497-9506.	3.7	22
9	The effect of wetting cycles on moisture behaviour of thermally modified Scots pine (Pinus sylvestris) Tj ETQq1 1 0.784314 rgBT /Ove	3.7	19
10	Surface Characteristics of One-Sided Charred Beech Wood. Polymers, 2021, 13, 1551.	4.5	17
11	Exploring Growth Variability and Crown Vitality of Sessile Oak (Quercus Petraea) in the Czech Republic. Geochronometria, 2015, 42, .	0.8	16
12	Surface Modification of Spruce and Fir Sawn-Timber by Charring in the Traditional Japanese Methodâ€”Yakisugi. Polymers, 2021, 13, 1662.	4.5	14
13	Growth responses of Norway spruce (Picea abies (L.) Karst.) to the climate in the south-eastern part of the ÄŒeskomoravskÃ¡ Upland (Czech Republic). Geochronometria, 2012, 39, 149-157.	0.8	13
14	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.	2.9	13
15	Mass loss kinetics of thermally modified wood species as a timeâ€“temperature function. European Journal of Wood and Wood Products, 2021, 79, 547-555.	2.9	12
16	Effect of hemp oil impregnation and thermal modification on European beech wood properties. European Journal of Wood and Wood Products, 2021, 79, 161-175.	2.9	11
17	Measured temperature and moisture profiles during thermal modification of beech (<i>Fagus) Tj ETQq1 1 0.784314 rgBT /Overlock 1	1.9	10
18	Ungulate Browsing Limits Bird Diversity of the Central European Hardwood Floodplain Forests. Forests, 2018, 9, 373.	2.1	10

#	Article	IF	Citations
19	Influence of uncertainty in diffusion coefficients on moisture field during wood drying. International Journal of Heat and Mass Transfer, 2012, 55, 7709-7717.	4.8	9
20	Reducing the moisture sensitivity of linear friction welded birch (Betula pendulaL.) wood through thermal modification. Journal of Adhesion Science and Technology, 2015, 29, 2461-2474.	2.6	9
21	Effect of One-Sided Surface Charring of Beech Wood on Density Profile and Surface Wettability. Applied Sciences (Switzerland), 2021, 11, 4086.	2.5	9
22	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
23	Site and age-dependent responses of Picea abies growth to climate variability. European Journal of Forest Research, 2019, 138, 445-460.	2.5	8
24	Interaction between Thermal Modification Temperature of Spruce Wood and the Cutting and Fracture Parameters. Materials, 2021, 14, 6218.	2.9	7
25	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.	1.9	6
26	Swelling kinetics of thermally modified wood. European Journal of Wood and Wood Products, 2021, 79, 1337-1340.	2.9	5
27	Changes in forest nitrogen cycling across deposition gradient revealed by Î´15N in tree rings. Environmental Pollution, 2022, 304, 119104.	7.5	5
28	Influence of Welding Time on Tensile-Shear Strength of Linear Friction Welded Birch (Betula pendula) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	1.0	4
29	Effect of chemical and thermal modification, and material replacement on strand board properties. European Journal of Wood and Wood Products, 2020, 78, 565-575.	2.9	4
30	Application of Microwave Heating for Acetylation of Beech (Fagus sylvatica L.) and Poplar (Populus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	1.0	3
31	Numerical analysis of temperature profiles during thermal modification of wood: chemical reactions and experimental verification. Holzforschung, 2015, 69, 321-328.	1.9	2
32	Unevenly distributed thermal treatment of wood: preliminary studyâ€"density profiles. European Journal of Wood and Wood Products, 2016, 74, 629-631.	2.9	2
33	Neutral Axis in Thermally Modified Timber Determined by Image-Based Approach. Journal of Testing and Evaluation, 2020, 48, 3324-3330.	0.7	2
34	Heat distribution in thermally modified timber. European Journal of Wood and Wood Products, 2013, 71, 827-830.	2.9	1
35	Decay resistance of ammonia-plasticised and densified beech wood. Wood Material Science and Engineering, 2023, 18, 172-183.	2.3	1