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Phenomenon of Wood Colour

Guest Editors:

Dr. Richard Hrčka

Department of Wood Sciences, Technical University in Zvolen, T. G. Masaryka 24, 96001 Zvolen, Slovak Republic

Dr. Magdalena Broda

Department of Wood Science and Thermal Techniques, Faculty of Forestry and Wood Technology, Poznań University of Life Sciences, Poznań, Poland

Dr. Vlastimil Borůvka

Department of Wood Processing and Biomaterials, Faculty of Forestry and Wood Sciences, Czech University of Life Sciences Prague, Kamýcká 129, 165 00 Prague, Czech Republic

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Message from the Guest Editors

The perception of wood character includes its colour. The effects exerted on wood by surroundings through the surface, intensive heat transport through the surface or transforming energy for breaking chemical bonds of wood significantly influence compounds wood colour. Clarification of wood colour alteration mechanisms during such processes is desirable. We encourage experimental or theoretical studies to be incorporated into this systematic collection of information about wood colour, including measurement of wood colour, statistical approaches regarding wood colour, correlation of wood colour with properties of wood, wood colour during and after the interaction of wood with various forms of energy, the processes of forming new wood surfaces or their restoration, the colour of wood as a non-homogeneous, anisotropic and porous material, the reflectance and transmittance of wood, the wood colour under different illuminance, the colour of wood compounds, the colour of wood tissues, the wood defects colour, the colour of wood modified with different coatings, the wood texture as space distribution of colour on wood surfaces, and colours and texture of wood smart materials.









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Prof. Dr. Giacomo Alessandro Gerosa

Department of Mathematics and Physics, Catholic University of Brescia, I-25121 Brescia, Italy

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Forests Editorial Office MDPI, St. Alban-Anlage 66 4052 Basel, Switzerland Tel: +41 61 683 77 34 www.mdpi.com mdpi.com/journal/forests forests@mdpi.com X@Forests_MDPI