

Special Issue

Phenomenon of Wood Colour— 2nd Edition

Message from the Guest Editors

The perception of wood character is closely linked to its colour. Various factors affecting wood—such as environmental exposure through its surface, intensive heat transfer, or energy transformations that break chemical bonds within wood compounds—significantly influence its colour. A deeper understanding of the mechanisms driving wood colour alteration during these processes is highly desirable. Intelligent processing and utilisation of wood demand a thorough knowledge of its properties, including colour, which is often associated with wood quality. Moreover, the final purchasing decision of customers is influenced by the colour of wood products. We invite experimental and theoretical studies addressing, but not limited to, the following topics related to wood colour:

Measurement techniques and statistical analyses of wood colour;

Correlations between wood colour and other wood properties;

Processes of creating or restoring new wood surfaces;

Reflectance and transmittance of wood;

Wood colour under varying illumination conditions;

Colour characteristics of wood compounds, tissues, and defects;

Effects of different coatings on wood colour.

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