



Wood Modification: Optimisation and Characterisation of Modified Timbers

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Message from the Guest Editors

Wood modification techniques such as thermal modification, acetylation, and furfurylation have been well studied and commercially available. Many other modification systems for wood are still under development. Most wood modification systems seek to enhance dimensional stability, while many also extend service life and provide durability and resistance to fungal decay, weathering, or insect and marine borer attacks. In recent years, innovation in wood modification has focused on three main themes: combining modifications to increase the range of benefits offered; seeking bio-based or green chemistry modifications; and introducing nanotechnologies to provide innovative functional materials. Papers relating to all of these aspects are welcomed for this Special Issue of *Forests*.

Potential topics include, but are not limited to:

- Thermal modification;
- Chemical modification;
- Passive chemical modification;
- Bio-based polymers, resins, and reagents for modification;
- Novel combined modification systems;
- Nanotechnology in wood modifications;
- Sustainability in wood modification;
- Service life and durability of modified wood;
- Properties of modified wood.





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