

Special Issue

Methods and New Technologies for Wood Modification

Message from the Guest Editors

Wood biomass is currently used in many different value chains, from wood-based products and materials to biochemical and bioenergy, and various industrial sectors. However, despite the growing attention of previous years, the cascade usage of this bioresource has not yet been optimized.

In this Special Issue we aim to present the most recent developments in the field of biomass valorization, with a particular focus on wood. The overall objective of this issue is to extend the lifespan of different bio-sourced materials so that the carbon fixed in their structure will be kept as long as possible, before it inevitably goes back into the air as carbon dioxide.

Extending the service life of bio-based products is, at present, the best way to fight climate change. It also has the advantage of reducing the need for other materials. Therefore, in this collection, we encourage submissions dealing with the following topics:

New applications for bio-based forest products;
Thermal modifications of bioresources;
Wood modification and preservation;
Environmental impact of wood modification;
Life cycle assessments and circular economy studies.

Guest Editors

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