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Wood Treatments and Modification Technologies

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Message from the Guest Editors

Wood is a sustainable and versatile material. To improve wood properties and give them special characteristics, wood treatments and modifications are conducted. This Special Issue explores the application of chemical, physical, or biological methods to alter the properties of the woody material. Improvements in mechanical strength, dimensional stability, decay resistance, weathering resistance, and fire resistance could be achieved through modifications. Recent modifications of wood include thermal treatment to improve the UV resistance of wood, delignification, and polymer intrusion to make transparent wood and phase-change material-impregnated wood, thus awarding thermal regulative properties to wood. This Special Issue welcomes papers on all aspects of wood treatment and modification, including wood in the form of solid, composites, and woody biomass.

Deadline for manuscript
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Special Issue



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