



Wood Drying

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Message from the Guest Editors

Wooden material must undergo a drying process to avoid dimensional changes and biological degradation. Moreover, during drying, the mechanical and technological properties of wood are enhanced. Therefore, wood drying processes represent a mandatory technological step in the entire chain of wood processing. Despite the progress achieved in the field of wood drying, including technical and automatic control systems, companies still face challenges regarding drying times, drying quality, energy consumption, and a lack of well-trained wood drying operators.

Many topics have been studied through experiments and modeling techniques to better understand and optimize the wood drying process. However, further research is needed to align the drying process of wood with current requirements, specifically reducing energy consumption and increasing product quality.

Thus, we encourage all researchers involved in wood drying to contribute to this Special Issue, which focuses on topics related to drying, such as water migration in wood, heat and mass transfer, stress development, airflow in kilns, drying schedules, drying quality, and controlling and monitoring the drying process.





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