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Wood Materials: Preservation and Modification

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Deadline for manuscript submissions:

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Message from the Guest Editors

Wood is a construction product characterized by a high strength to weight ratio, low heat conductivity and easy machinability. It also binds carbon and thus contributes to reducing the CO₂ content in the atmosphere. However, despite its many positive features, wood also has some disadvantages, such as low dimensional stability, low resistance to wood-degrading fungi and flammability. In the past few decades, some studies have aimed to improve wood quality through physical, chemical and biological modifications, among other strategies. However, there are still many problems to be solved.

This Special Issue will focus on new techniques and the optimization of processing parameters for wood preservation and modification. Changes in relevant wood properties, including dimensional stability, biological durability, mechanical properties and multi-scale fire retardancy, are of interest. Moreover, submissions detailing advanced characterization techniques that have application potential in the field of wood preservation and modification are also welcome.



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Special Issue



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