



Protection and Modification of Wood and Bamboo Materials

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Message from the Guest Editors

Wood is a CO₂-neutral, renewable, versatile, and natural material that is widely used in different applications. With the increasing environmental and health concerns, the development and application of wood-based materials have attracted increasing attention. Simultaneously, as the most promising woody herbaceous plant substitute of wood in some applications, bamboo has also been studied extensively in recent decades. However, these materials have several undesirable properties, such as biodeterioration, dimensional instability, inflammability, and photodegradation—all drawbacks which severely restrict their utilization in a variety of applications.

This Special Issue, entitled “Protection and Modification of Wood and Bamboo Materials”, welcomes research and review papers covering all aspects related to the protection and modification of wood and bamboo materials, including but not limited to wood preservation, weathering, flame retardance, wood polymer composites, dimensional stability, mechanical properties, mildew resistance, termite resistance, wood adhesives, and coatings.





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