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Treatments and Modifications to Improve Surface Properties of Wood and Wood-Based Materials

Guest Editor:

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Deadline for manuscript submissions:
closed (20 March 2024)

Message from the Guest Editor

Dear Colleagues,

Surface modification can improve some physical and mechanical properties of wood and wood-based composites, such as hydrophobization, dimensional stability, hardness, flame retardance as well as anti-fouling to pollutants.

The goal of this Special Issue is to provide new findings in surface modification of wood and lignocellulosic materials. The topics of interest include (but are not limited) to the following:

- Ecological modifiers and modification processes wood and wood-based composites surface being harmless to humans and the environment
- Surface preparation, texturing techniques and experimental processing with new methods on surface treatments and characterizations
- Wettability of wood and wood-based materials and their treated surfaces properties of modified wood-based surface, including weathering studies, resistance to abiotic and biotic factors, measurement of different deterioration parameters
- Optical techniques, spectroscopical and surface analytical methods

I am looking forward to receiving your contribution.

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Message from the Editorial Board

Now more than ever, research is asked to deliver knowledge and technologies to solve the major challenges faced by our society. The development of new materials and devices for (without the ambition to be exhaustive) energy, health and food technology, together with the need for establishing processes that reduce the impact on critical resources and the environment, is indeed in the spotlight of most contemporary research. Surface science and engineering play a key role in this regard, with an incredible potential in delivering new and deep scientific understanding and technical solutions essential to solve most of the major societal challenges.

Coatings is a well-established, peerreviewed, online journal dedicated to the vibrant field of surface science and engineering. Coatings publishes original research articles that report cutting-edge results and review papers that make the point on the hottest research topics.

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