Special Issue

Surface Modification on Wood Composites

Message from the Guest Editors

Recently, wood composites have been well developed, and their products have been used everywhere, such as in furniture, flooring, construction, rails, powder engineering, and even aerospace. Surface modification can improve some physical and mechanical properties of wood composites, such as hydrophobization, dimensional stability, hardness, flame retardance, and anti-fouling to pollutants. It is necessary to understand the deep mechanisms and to explore some potential ideas in the modification process. This scope of this Special Issue will serve as a forum for papers focusing on the following concepts:

Green modifiers and modification processes on wood composites that are harmless to humans and the environment;

Surface treatments with multiple functions, such as super-hydrophobization and flame and fungi retardance;

Experimental processing with new methods on surface treatments and characterizations;

Development of mechanisms on the surface and interface of wood composites;

Studies of advanced materials applied on wood composites.

Guest Editors

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About the Journal

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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