



Advances in Surface Modification and Treatment of Wood

Guest Editor:

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Message from the Guest Editor

Timber is a biosynthetic end-product, so the making of wood is a function of gene expression, the catalytic rates of structural enzymes and environmental factors. Thus, to achieve a full understanding of wood formation, each component of the full set of intrinsic processes essential for cut wood surface. Wood surface attributes can be established by examining a number of different physical or chemical properties. Understanding how their unique, anisotropic molecular organization, chemical linkages, branching, and other molecular features govern the micro- and macroscale accessibility is essential for coating and complex modification processes.

It is, therefore, important for scientific as well as practical reasons to qualify and quantify the wood surface treatments and modifications.

This Special Issue welcomes submissions from a wide spectrum of research with a specific focus on the comprehensive surface modification and treatment of wood. The Special Issue not only accepts wood surface modification for bio or green-related applications, but also welcomes new modification systems that have potential applications in the construction or built-in applications.





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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.

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