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Advances in Wood Treatment

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Message from the Guest Editors

Dear Colleagues,

Wood, as a renewable source of raw materials, has been used by mankind for centuries in many areas of life, from making simple toys to the production of high-tech products. The uniqueness of wood as a material is due not only to its positive properties, but also to its negative characteristics in terms of its stability and durability. The standard practice is to create a mechanical barrier on the surface of the wood to mitigate these negative properties by treating it with chemicals, which in many cases are sources of potential health and environmental problems.

Therefore, it is our duty to look for new methods of wood treatment, especially physical methods, which have minimal impacts on healthy working and living environments throughout the entire life cycle of such treated wood.

In particular, the topics of interest include, but are not limited to:

- The influence of materials and operational specifics on wood treatment parameters;
- Changes in physical, chemical, and technological properties of treated wood;
- Environmental aspects of wood treatment.

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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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