

New Trends in Wood Coatings and Surface Modification

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Message from the Guest Editors

Dear Colleagues,

The use of wood and its biocomposites is one of the main tasks of the Bauhaus and European Green Deal, due to the well-established role of wood in mitigating climatic changes. The new generation of innovative coatings represent a keystone, as they provide a series of properties that overcome the native wood characteristics. New coatings increase hardness, durability to pathogen attack, and general resistance to degradation with a more appreciable aesthetic appearance and minor impact on the final product density. The natural protective organic compounds and nanotechnologies have a fundamental role in this field, together with surface modifications (such as plasma), which increase the efficiency through more eco-friendly products. Smart coatings are also the future in this field, in view of their capability to be selective in their function. The surface of wood and wood composites is fundamental, impacting the efficiency of the new generation of innovative coatings.



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Message from the Editorial Board

Now more than ever, research is called for to produce technologies and improve knowledge 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 at the center of most contemporary research. Surface science and engineering play a key role in this regard. Refining surfaces and their modifications provides new materials, architectures and processes with a huge potential to aid most societal challenges. *Coatings* is a well-established, peer-reviewed, online journal that focuses on the dissemination of publications in the field of surface science and engineering. *Coatings* publishes original research articles that report cutting-edge results and review papers on the hottest topics.

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