

Wood Modification: Characterization, Modelling and Applications

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Deadline for manuscript
submissions:

closed (15 May 2021)

Message from the Guest Editors

Dear Colleagues,

We would like to invite you to disseminate your latest research results by contributing to a Special Issue of the *Coatings* journal. This Special Issue will report on progress in enhancement of native wood properties through a wide range of chemical, biological, or physical agents. Both surface and bulk modifications are within the scope, with contributions regarding diverse aspects of surface coating especially appreciated.

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

- Assessment and monitoring of service life performance
- Bioinspired modification methods
- Effect of materials preparation and modification procedure
- Environmental impact of treatments
- Machinability and finishing of modified wood
- Maintenance action and renovation scheduling
- Modelling and characterization methods
- Multifunctional treatments
- Novel formulations and serviceability
- Perception and marketing of modified wood
- Surface and bulk modification processes
- Understanding of deterioration processes



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Special Issue

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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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