

## 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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Guest Editors

# Special Issue

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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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