

## Special Issue

# Recent Developments in the Surface Modification of Lignocellulosic Materials

### Message from the Guest Editor

Lignocellulosic materials (wood, thermally treated wood, cellulose, sisal fibre, agricultural residues, etc.) form biomass and are renewable resources that mainly consist of biopolymers (cellulose, hemicellulose, and lignin). They are typically biodegradable, biocompatible, chemically versatile and functionalized using different treatments/methods. These environmentally benign materials are available in abundance and have the potential to replace petroleum-based synthetic materials/products. This Special Issue of *Coatings* focuses on original research articles and review papers on recent developments in the surface modification of lignocellulosic materials. Contributions focusing on the following areas are of interest: the characterization/optimization of modification methods; the characterization of a desired property of, and/or effect on, a particular surface; the characterization of surface properties prior to/after treatment; and the characterization of an applied coating/surface layer and its properties—other possible research directions in the field are also welcome. Both theoretical and experimental works, as well as papers combining both aspects, are welcome.

### Guest Editor

Dr. Rasmus Talviste

Institute of Physics, University of Tartu, Tartu, Estonia

### Deadline for manuscript submissions

2 March 2026



## Coatings

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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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