

Special Issue

Surface Properties and Surface Treatments of Wood and Wood-Based Composites

Message from the Guest Editor

Whenever products made of wood or wood-based composites are utilized, when their weathering is studied, or when the processes of wood deterioration due to exposure to biotic or abiotic factors are investigated, it is the surface of the object under consideration that must be taken into account at first. Some surface treatment processes are well established, like surface finishing of wood with coatings, and others are less known, and their potentials are underestimated. This Special Issue will serve as a forum for papers in the following concepts:

Surface finishing of wood and wood-based composites with all kinds of stains and film-forming coatings to obtain a fit-for-purpose finished product;

Properties of wood surface systems, including resistance to weathering and biological deterioration parameters;

Plasma treatments;

Functionalization of lignocellulosic material surfaces, e.g., by grafting, sol-gel treatments, deposition of nanoparticles;

Adsorption phenomena on untreated and surface finished lignocellulosic materials.

Guest Editor

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About the Journal

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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