

Special Issue

Advances in Surface Modification and Coatings of Wood and Wood Composites

Message from the Guest Editor

Wood is still used extensively across many industries, despite its disadvantages, including dimensional instability, susceptibility to biodegradation and ability to burn. One of the areas that can improve these properties, and therefore expand the scope of its application, is wood modification. Different methods of wood modification have been, and continue to be, developed. Particular focus areas include thermo-mechanical modification, plasma treatment, modification with new polymers and nanomaterials, antifungal and fire-retardant modification of wood surface, etc. Another area is wood finishing, the purpose of which is to protect wood from external factors, to preserve its decorative properties or to enhance its beauty. New eco-friendly coating systems are offered, including coatings containing nanoparticles; bio-based additives derived from cellulose, lignin or other natural polymers; coating products with bio-protection or fire-protection effects, etc. I invite authors to contribute to this Special Issue in the form of full research articles, communications, or reviews.

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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