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Wood Coatings: Formulation, Testing and Performance

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Message from the Guest Editors

Multiple products made of wood-based materials ranging from furniture to floors, windows, doors, and other elements designed for various environments are part of our everyday lives contributing to its quality through both functionality and aesthetics. Wood finishing is a complex surface coating technology with a key role in conferring the desired consumer- or market-tailored aspects and properties of the finished products. The coating of wooden substrates should primarily ensure a long-lasting desired aesthetic appearance and surface roughness while also providing some protection to the substrate against different types of physical, mechanical, chemical, or biological nature degradation factors. These factors and the intensity are different depending on the environment and various applications, and they may affect the integrity and appearance of coatings over time, also reducing their protective effects.

Papers dealing with all the factors involved in the quality and performance of wood finished surfaces, from processing the substrate and its surface properties, to coatings formulation, finishing technology and the testing methods involved, are welcome.

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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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