

Special Issue

New Challenges in Wood Adhesives and Coatings

Message from the Guest Editor

Adhesives and coatings applied to wood products have several similarities, including the nature of their interactions with the support; most chemical moieties of the constituting polymers; new constraints requiring the reduction of human and environmental toxicity; the growing interest in the use of sustainable raw materials to replace petrochemical products; the use of bio-based resources to re-think the use of synthetic chemicals, etc.

Of course, both wood adhesives and coatings also have unique properties, and topics related to these are also welcome in the Special Issue. They include, for instance, the use of lignin or carbohydrates in formulations, the research for alternative co-reactants in vegetable proteins, the gluing of hardwoods for structural uses, the development of exterior-grade adhesives and glued wood products (e.g., CLT) in the case of wood adhesives, and the development of new transparent stains or varnishes in outdoor applications, the progress of radiation-curable (e.g., UV, EB, visible light) resins for clear matte coatings and systems, the innovative drying of shellacs and lacquers in the case of wood coatings.

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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