

Special Issue

Coatings for Timber and Wood-Based Material

Message from the Guest Editor

Most wood products require coatings, whether it be wood-in-service or decorative wood, to help protect against decay and dimensional change. Wood coating technology continues to advance at a rapid pace, and encompasses not only standard weathering coatings, but also pigmented coatings such as colored resins for stabilized spalted wood. The scope of this issue will include (but is not limited to):

- Decking, utility pole, and piling coatings to protect against water and microorganisms/macroorganisms
- Interior coatings for wood in-service, such as butcher blocks, salad bowls, tables
- UV-retardant and UV-interactive coatings
- Historic wood coatings on carvings, marquetry, intarsia, and furniture, especially as it pertains to repair and museum maintenance
- Coatings with additives, such as pigments and dyes, that add decoartive effects
- Pressure-treatment and other penetrative coatings
- Toxicity testing and concerns over wood coatings
- Durability of various coatings based on interior/exterior use (and all hybrid coatings)
- Consumer preference and trends in wood coatings
- Heat and other thermal modifications

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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