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Frontiers in Modification of Wood and Wood-Based Composites

Guest Editors:

Dr. Seng Hua Lee
Department of Wood Industry, Faculty of Applied Sciences, Universiti Teknologi MARA Pahang Branch Campus Jengka, Bandar Tun Razak 26400, Pahang, Malaysia

Dr. Wei Chen Lum
Institute for Infrastructure Engineering and Sustainable Management (IIESM), Universiti Teknologi MARA, Shah Alam 40450, Selangor, Malaysia

Dr. Manfred Dunky
University Lecturer, St. Poelten, Austria

Deadline for manuscript submissions:
closed (30 June 2023)

Message from the Guest Editors

Dimensional stability and biological durability are very critical criteria for different types of wood. The hydroscopic nature of wood and wood-based composites is responsible for the dimensional instability and decay of wooden structures. Suitable modification methods to reduce the hygroscopic behavior of wood are highly sought after. Wood modification refers to the process of altering the properties of a material through the use of chemical, mechanical, physical, or biological methods. In the interest of environmental protection, more environmentally friendly treatments utilizing non-toxic chemicals are strongly encouraged. As a result, advancements in the modification of wood and wood-based composites are critical. This Special Issue aimed to collect high-quality original research and systematic review articles on the most recent advancements in wood and wood-based composites modification technologies. Additionally, this Special Issue will feature selected contributions on the modification of non-wood materials such as bamboo and palm, as well as the procedure for the modification, characterization, and applications of modified wood and wood-based composites.

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Editor-in-Chief

Prof. Dr. Giacomo Alessandro Gerosa
Department of Mathematics and Physics, Catholic University of Brescia, I-25121 Brescia, Italy

Message from the Editor-in-Chief

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Contact Us

Forests Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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