Special Issue

Advances in Testing the Biological Durability and Quality Assurance of Wood-Based Materials and Products

Message from the Guest Editors

Wood and wood-based products have a high potential for sequestering carbon and can be obtained from sustainable forest resources. The longer a wood product remains in use, the more carbon remains bound. Thus, the biological durability of wood plays an important role in the service life of wooden structures and components. With the increasing regulation of wood preservatives and criticism surrounding non-sustainably produced tropical wood species, innovative approaches for improving wood durability are desirable. Environmentally friendly and sustainable materials are becoming more popular, leading to increased interest in the development of biobased alternatives to traditional wood protection methods. These developments should improve the sustainability of wood-based materials and the products industry. We encourage studies from all fields, including method development, experimental studies, quality assurance monitoring approaches, and models to contribute to this Special Issue in order to contribute to the knowledge surrounding wood durability mechanisms, wood modification strategies and the protection of wooden structures.

Guest Editors

Dr. Tripti Singh
Scion, Crown Research Institute (CRI), Rotorua 3046, New Zealand

Prof. Dr. Christian Brischke
Thünen Institute of Wood Research, Hamburg, Germany

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Forests
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
forests@mdpi.com

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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

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