## **Special Issue**

### Thermal Treatment of Wood and Wood-Based Composites: Processes, Properties, and Environmental Impacts

### Message from the Guest Editor

Wood modification is relied upon to enhance the physical, mechanical, and aesthetic properties of wood and wood composites. There are some modification techniques, such as thermal treatment, alkali treatment, arafting/coupling agents, and anhydride treatment. The surface of the wood particles will be more hydrophobic, increasing their compatibility with the surface of the polymer matrix. However, chemical modification techniques generally use chemical additives that are not environmentally friendly. Among the modification techniques, thermal treatment, generally varying from 150 to 220 °C, is one of the most commonly used environmentally friendly techniques in the wood and wood composite industry because no chemicals are used in this technique, and it is a simpler method than others. This special issue focuses on improving wood products using thermal modification processes, applications, and their properties.

### **Guest Editor**

Prof. Dr. Nadir Ayrilmis Department of Wood Mechanics and Technology, Faculty of Forestry, Istanbul University-Cerrahpasa, Bahcekoy, Sariyer, 34473 Istanbul, Turkey

### Deadline for manuscript submissions

closed (27 February 2024)



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*Forests* (ISSN 1999-4907) is an international and crossdisciplinary, scholarly forestry journal. The distinguished editorial board and refereeing process ensures the highest degree of scientific rigor and review of all published articles. Original research articles and timely reviews are released online, with unlimited free access. Our goal is to have *Forests* be recognized as one of the foremost publication outlets for high quality, leading edge research in this broad and diverse field. We therefore invite you to be one of our authors, and in doing so share your important research findings with the global forestry community.

#### 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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