Special Issue

Modified Wood: Process–Property–Durability Relationships

Message from the Guest Editors

Wood is a renewable, versatile, and widely used material, but its performance is often limited by moisture sensitivity, dimensional instability, biological degradation, and weathering. Wood modification has developed as an important approach to improve these properties while maintaining the environmental advantages of wood. From traditional surface charring to modern thermal, chemical, impregnation, densification, and surface modification technologies, the field has evolved into a scientifically and industrially relevant area of wood science.

This Special Issue focuses on the links between modification processes, resulting material properties, and long-term durability. Understanding how treatment parameters, wood species, chemical and structural changes, and service conditions influence performance is essential for developing reliable, sustainable, and high-performance wood materials. We welcome original research articles, reviews, and short communications addressing established and emerging wood modification technologies, including thermal modification, acetylation, furfurylation, resin impregnation, densification, surface treatments, and hybrid approaches.

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Forests (ISSN 1999-4907) is an international and cross-disciplinary, 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.

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