

Special Issue

Recent Scientific Developments in Bamboo Science and Wood Biomaterials

Message from the Guest Editors

Bamboo and wood stand out as two of the most versatile, renewable, and sustainable natural materials on Earth and, with growing global demand for carbon-neutral biomaterials and eco-friendly construction solutions, bamboo science and wood composites have captured significant interest among researchers, engineers, and architects worldwide. These materials offer exceptional mechanical properties, rapid renewability, and remarkable adaptability, making them ideal for diverse applications from structural and decorative uses to high-performance engineering. However, key challenges remain, including improving long-term durability, ensuring vibration serviceability, enhancing fire resistance, and guaranteeing seismic reliability, and overcoming these hurdles is essential to unlocking the full potential of bamboo and wood in modern construction and material science. We invite original research articles and reviews that contribute to this evolving field, and submissions should address emerging trends, novel methodologies, or sustainable practices that advance the use of bamboo and wood in engineering and design.

Guest Editors

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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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