

Special Issue

Bio-Based Materials for Sustainable Wood Products

Message from the Guest Editors

This Special Issue focuses on cutting-edge research and technological innovation in sustainable wood-based materials, with a particular emphasis on the resource utilization of wood biomass, bio-based resins/adhesives, modification and functionalization of wood composite materials, and chemical synthesis of wood fibers. It systematically reviews the progress in material design, chemical synthesis, preparation processes, performance characterization, and life cycle assessment. It focuses on the utilization of renewable resources and low-carbon manufacturing, exploring the potential applications of bio-based materials in fields such as construction, furniture, transportation, packaging, etc., and reducing dependence on traditional petrochemical base-materials. It reveals key technologies such as interface regulation, green modification, and high-value utilization, providing theoretical basis and technical reference for promoting the low-carbon transformation of wood products and promoting the development of circular economy.

Guest Editors

Prof. Dr. Jun Zhang

Prof. Dr. Xiaona Li

Dr. Jianyong Wan

Dr. Hongda Guo

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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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Message from the Editor-in-Chief

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.

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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