Special Issue

Recent Advances in Eco-Friendly Wood-Based Composites: Fabrication, Applications and Perspectives

Message from the Guest Editors

This Special Issue, “Recent Advances in Eco-Friendly Wood-Based Composites: Fabrication, Applications, and Perspectives”, aims to highlight the latest scientific and technological developments in the design, processing, and application of sustainable, high-performance wood-based materials. The topics include, but are not limited to:

- Design and fabrication of eco-friendly wood-based composite materials;
- Development of sustainable, bio-based adhesive formulations; Innovative strategies for reducing formaldehyde and VOC emissions;
- Production and performance of binderless wood-based panels;
- Advances in wood–plastic composites (WPCs) and hybrid materials;
- Composites based on natural matrices and non-wood natural fibers;
- Recycling and circular processing technologies for wood-based composites;
- Utilization of non-wood lignocellulosic biomass in composite production;
- Merging functionalities and advanced applications of engineered wood-based composites.

We cordially invite contributions from researchers, wood science experts, and professionals across related disciplines in the form of original research articles or comprehensive review papers.

Guest Editors

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Message from the Editor-in-Chief

Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

Editor-in-Chief

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