Special Issue

Development and Application of Wood-Based Materials

Message from the Guest Editors

Wood and wood-based materials play a vital role in construction and furniture manufacturing, as well as many other industries. They offer durability and sustainability and have a lower carbon footprint than other raw materials. Current research aims to expand their applications and enhance their environmental properties. Key research objectives include enhancing the durability and strength of wood and wood-based materials under extreme conditions, minimising harmful emissions, creating innovative, eco-friendly wood-based composites from waste and alternative binders and exploring new applications for wood and wood-based composites. This Special Issue aims to showcase the latest groundbreaking research in wood and wood-based materials technology. The focus is on innovation, sustainability and eco-friendly solutions that are shaping the future of wood, construction and other industries. Topics include the physical, mechanical and chemical properties of wood and composites; new production technologies; durability; protection and the applications of engineered wood.

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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.

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