



Research on Wood-Based Composites

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Message from the Guest Editors

Wood-based composite (WBC) has many advantages in geometry, density, bio- and water resistance, fireproofing, durability, strength, thermal and acoustic insulation. In addition, their manufacture makes it possible to reduce the use of wood or the use of lower-quality and small-sized wood and other types of material, often recycled. For years, WBCs have also attracted increasing attention from various research institutions seeking to develop a new sustainable product.

This special issue is to present the latest research on the manufacturing technology process, its efficiency and cost reduction, and the properties of the conventional as well as a new type of wood-based composite. Particularly, welcome works on the development of a new type of environmentally friendly binding systems, the use of alternative raw materials, the improvement of hygienic, durability, quality of WBCs (thermal and chemical treatment of raw material and finished product, the use of nanomaterials), the development of new materials with a three-dimensional structure, multilayer composites (sandwich panel), lightweight composites, hybrid composites, their assembly systems and the recycling process of WBCs.





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