



Application of Wood-Based Composites

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Message from the Guest Editors

The hierarchical, porous, and macromolecular structures of wood provide opportunities for it to be modified and processed into structural, functional, and multi-functional material. Wood composites are made from various wood or ligno-cellulosic non-wood materials that are bonded together using either natural bonding or synthetic resin (e.g., thermoplastic or duroplastic polymers), or organic (e.g., plastics) and inorganic binders (e.g., cement). This product mix ranges from panel products (e.g., plywood, particleboard, strandboard, or fiberboard) to engineered timber substitutes (e.g., laminated veneer lumber or structural composite lumber). These composites are used for a number of structural and non-structural applications in product lines ranging from interior to exterior applications (e.g., furniture and architectural trims in buildings). Wood composite materials can be engineered to meet a range of specific properties. The proper selection of wood materials and processing variables can provide high performance and reliable service. Accordingly, this Special Issue aims to investigate innovation in functional wood-based composite for high-performance applications.





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