



Wood-Based Composites: Materials, Manufacturing and Engineering

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Message from the Guest Editors

Due to its unique properties and natural origin, wood is an excellent raw material for the production of ecological boards used in construction, furniture, packaging and many other areas. Thanks to the intensive development of new technologies, modern wood-based composites are appearing on the market, and their production uses wood and other lignocellulosic raw materials with different degrees of fragmentation (veneers, chips, fibers and flour). Chemical additives such as adhesive resins (especially low emission or formaldehyde free), hydrophobic agents, flame retardants, fungicides or additives that improve the hygiene of panels are also used for the production of wood-based composites. In this regard, it is desirable to search for new raw materials or chemical additives, particularly those in line with the green chemistry trend, that will allow the production of wood-based materials with favorable physical and mechanical properties as well as performance properties.





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