



Recent Developments in Bio-Based Particleboards and Fiberboards

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Message from the Guest Editor

This Special Issue aims to collate the latest research on particleboards and fiberboards made from renewable resources.

Plant fibers have many advantages. They are abundant, cheap, and have a relatively minimal impact on the environment. Whether thermoplastics or thermosets, binders can also be of biosourced origin.

Bio-based particleboards and fiberboards can thus be independent from fossil resources, having the advantage of being low VOC emitters. In particular, the replacement of formaldehyde-based resins with natural binders makes them more conducive to the environment and human health.

This Special Issue will be of interest to producers of fiberboards and particleboards, as we aim to market more environmentally friendly materials in the future.

The topics of interest for this Special Issue include (but are not limited to) the following:

- The origin of natural fibers and binders;
- Fiber preparation;
- Mixture preparation and molding;
- Waterproofing strategies (at the moment of molding or as a post-treatment);
- Thermo-mechanical performance (including in a humid environment);
- VOC emissions[...]





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Message from the Editor-in-Chief

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