
Research regarding the chemical modification of wood

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Abstract Wood has many excellent properties that result from its exceptional combination of microstructural, ultrastructural and molecular features. The main drawback is its dimensional instability in the presence of moisture. Most of the research in the area of chemical modification of wood was conducted for improving either its dimensional stability or its biological resistance.

The paper presents the research concerning the chemical modification of aspen wood by esterification with acrylic monomers, in order to improve its biological resistance. These treatments will increase the use of wood as an important renewable resource.

Keywords: chemical modification of wood, acrylic monomers, emulsion copolymerization, wood preservation agents.
