

Special Issue

Performance and Modification of Wood and Wood-Based Materials

Message from the Guest Editors

Wood remains one of the most attractive construction materials. However, its applications are limited because it undergoes biological degradation, is combustible, and changes its properties under the influence of weathering conditions. Many of these disadvantages of solid wood are to some extent eliminated in wood-based materials such as plywood, particleboard, fiberboard, OSB, etc. Therefore, the problem of improving the properties of wood and wood-based materials is still in need of solutions. One of the effective ways to improve the properties of wood and wood-based materials is to modify them by conventional (thermal, chemical etc.) or the latest (plasma treatment) processes. With regard to wood-based materials, it is possible to treat their components (particles, fibers, glue, etc.) and the use them in wood-based materials or to use the post-treatment of ready-made materials to improve their certain properties. Emphasis in this Special Issue is placed on updating and expanding the knowledge concerning conventional and novel modification processes of wood and wood-based materials, their improved/modified properties, and their relevant applications.

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