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Involvement in the COST Action: MC Substitute Member, Member of WG3

Research interest

Development of innovative, environmentally friendly, biogenic materials, products and processes, development of biogenic material based panels, surface modification using environmentally friendly products (tannin based, plant extracts,...), finding of new approaches methods for modelling and simulation of material/surface properties during ageing;

Specialized technique available in my lab

Lab equipment for

- the preparation of biogenic material based panels (e.g. wood, leather based panels)
- the preparation and impregnation of wood with tannin based wood preservatives
- natural weathering, artificial weathering (QUV accelerated weathering testing equipment)

Additional comment

The HTB/HTW research team focuses its research on intelligent resource utilization of wood, the development of eco-friendly products and processes (e.g. environmentally friendly wood adhesive, bonding technologies, preparation of adhesives and wood preservatives using natural products, natural derivatives, by-products of processing natural materials) and sustainability and eco-efficiency of the developed products or processes. It is also specialized in the modelling and simulation of colour changes of wood surfaces.