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Involvement in the COST Action: Member of WG1

Research interest

Upgrading of wood and wood materials durability with ecological products and processes (int.al. thermal modification, antioxidants from bark, lignins etc.), protection of wood surface from weathering.

Specialized technique available in my lab

Lab equipment for

- wood impregnation and thermal modification on pilot scale
- analysis of wood and cell wall density
- sorption properties of materials
- wood biodegradation testing with rot and staining fungi
- artificial weathering and natural weathering
- characterisation of materials' mechanical and physical properties

Additional comment

The aim of the Laboratory's investigations is the more deep understanding of biodegradation and weathering processes and mechanisms in wood materials for targeted upgrading its durability properties and competitiveness in environmentally friendly and economical acceptable way.