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**Involvement in the COST Action: Member of MC, Member of WG1**

#### Research interest

Wood and biopolymers chemistry; control of the supramolecular properties of wood and biopolymers by chemical functionalization; chemical functionalisation of nanocelluloses (nanofibrils and nanowhiskers); interfacial adhesion in wood or biofibre-based composites; nanocellulose-based composites (films, coatings...).

#### Specialized technique available in my lab

Lab equipment for

- the synthesis of organic molecules (monomers and polymers).
- the molecular characterisation of wood, biopolymers and organic molecules (monomers and polymers).
- chemical functionalization of polymers in supercritical CO<sub>2</sub>.
- the elaboration of composites by extrusion.

#### Additional comment

The **LCPO** (UMR CNRS 5629; 26 permanent researchers; 15 permanent technicians and administratives; 58 Ph.D.'s and post-docs; 20 other non-permanents) is a University laboratory, which has since its creation in 1985 built a very strong international reputation in polymer science. With the recent advent of new researchers specialized in wood and biopolymers chemistry, the LCPO has extended further his expertise and reorganized its activities along three themes: Sustainable Polymer Chemistry, Polymer Nanotechnology for Life Science and Polymer electronic Materials and Devices. The wood and biopolymers research team is part of the **Sustainable Polymer Chemistry** group and is led by researchers having a long experience in wood, lignin, cellulose and paper chemistry.