

DOCTORATE SCIENCES AND TECHNOLOGIES OF CHEMISTRY AND MATERIALS

RESEARCH THEME (CIRCULARIZE PROJECT)

Preparation of copolymers, blends and vitrimeric materials by using sustainable synthetic technologies

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As part of the CIRCULARIZE project funded by the European Research Council (ERC) of the European Union under the Starting Grant program (ERC-2023-STG), this PhD position is announced on the topic: synthesis of levoglucosenone derivatives using sustainable synthetic technologies.

The project aims to develop advanced chemo-enzymatic techniques for the preparation of copolymers, blends and vitrimeric materials having potential applications as smart polymers. The synthetic procedures will involve the use of bio-based monomers, green organic solvents derived from biomass and immobilized biocatalysts while the reaction products will be analyzed via TGC, DSC, GPC and NMR techniques

For further details concerning the research theme, please contact: alessandro.pellis@unige.it.