

## Bio-based polymers and Innovative Green Processes

*Thursday, 7 March 2024 11:00 (30 minutes)*

For environmental, economic and societal reasons, the replacement of fossil resources (oil, gas, coal) is nowadays a crucial necessity and a real challenge for the 21st century. In this quest, the use of biomass resources can be considered as an alternative route, in line with a sustainable and environmentally friendly approach. Thus, biomass can provide a wide variety of biobased molecules that can lead to compounds with higher added value. This is also true for the development and study of new biobased polymers. Several projects in the fields of catalysis, green chemistry, bio-based polymers are carried out at ICMUB in this context. Aluminum and zinc complexes with four generation of phenoxy-amidine ligands were developed. Their structures were determined in solution and in solid state and showed that they can act as bidentate, tridentate or tetradentate ligands. Aluminum and zinc complexes displayed good activities in ROP of lactide even at room temperature.

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