Multifunctional guanidine catalysts for a circular economy

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Zinc and iron guanidine catalysts are highly active in the ring-opening polymerisation of lactide. In the last years, they showed also intriguing reactivity in the depolymerisation of polylactones and even PET, as well as the copolymerisation of biobased lactones. These properties make them valuable catalysts for the circular economy of polyesters. The talk will highlight the coordination chemistry perspective but also the important role of extensive kinetics and computational studies.

