



Showcasing research on the potential of two safe dinuclear molybdenum complexes for both synthesis and recycling of biobased polymers from Andreia F. Sousa's laboratory at CICECO and Chemistry Department (University of Aveiro, Aveiro, Portugal) in collaboration with Sigridur G. Suman's research group at Science Institute (University of Iceland, Dunhagi, Reykjavik, Iceland).

Leveraging molybdenum sulfur compounds as catalysts for the synthesis of biobased poly(ethylene 2,5-furandicarboxylate) and recycling

The uncovered potential of two safe dinuclear molybdenum complexes with non-rigid bidentate phosphinoyldithio formate ligands, each distinguished by their phosphorus atom substituents, was demonstrated for the first time in both the synthesis of poly(ethylene furan 2,5-dicarboxylate) (PEF) and its depolymerization. Image designed and illustrated by Ira Volkova.

As featured in:



See Sigridur G. Suman, Andreia F. Sousa *et al.*, *RSC. Sustainability.*, 2025, **3**, 323.