



**Showcasing research from the Hybrid research group
Biopolymer and Recycling Innovations (HyBRIt) of the
University of Groningen and NHL Stenden University of
Applied Sciences**

Enzymatic bulk synthesis, characterization, rheology, and biodegradability of biobased 2,5-bis(hydroxymethyl)furan polyesters

Novel biobased and biodegradable BHMf-based polyesters, produced *via* a sustainable and efficient bulk polymerization process by using either enzymes or commercially available catalysts, are reported. The thermal, mechanical and rheological properties can be tuned by varying the number of methylene units of the aliphatic comonomer. Different biodegradability rates were observed, depending on the polyesters' structure. Microbial degradation yields CO₂ and H₂O, closing the loop for BHMf-based polyesters.

Back cover designed by Cornelis Post and Dina Maniar.

As featured in:



See Katja Loos *et al.*, *Green Chem.*,
2024, **26**, 8744.