

From Mold to Gold



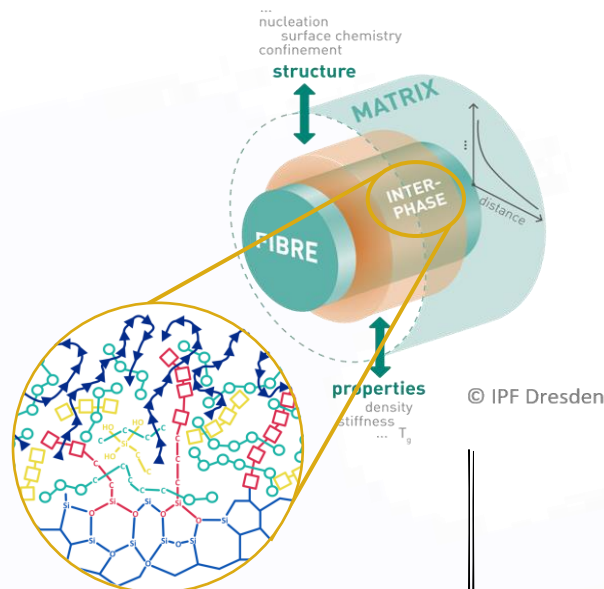
Leibniz-Institut für
Polymerforschung
Dresden

biofermentative

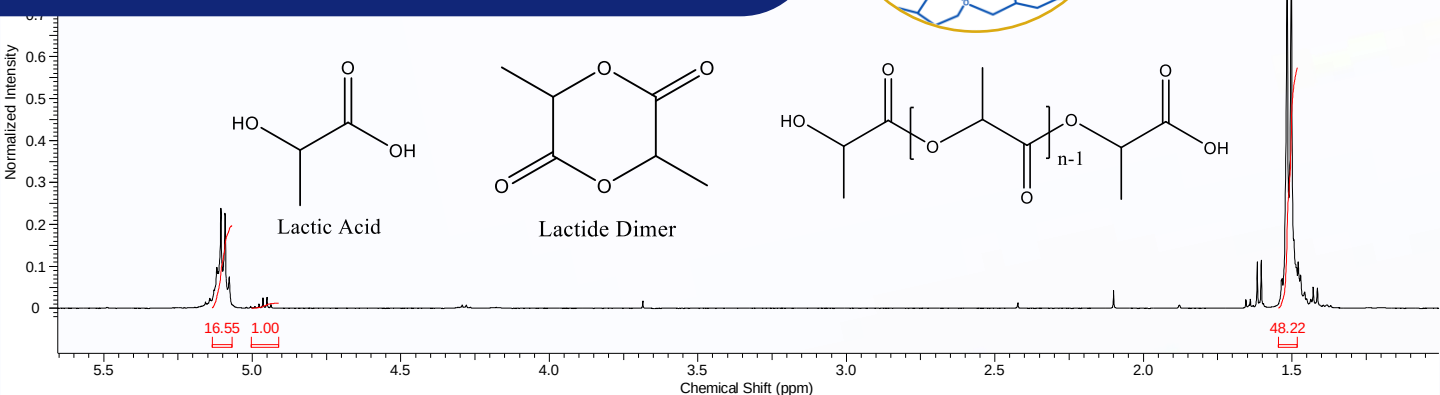
upcycling of organic waste to PLA for high-performance materials

Poly(lactic acid) (PLA) is a polymer derived from bio-based resources like corn starch and is widely used in the packaging industry due to its compostability.

In this project we want to show how PLA upcycled from organic house waste can act as a matrix material for composites that are entirely sustainable, high-performance alternatives to Carbon/Glass-Fiber-Epoxy standards.



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SHK position for BA/MA students – potential research internship or master thesis work

Your tasks:

- Synthesis of PLA from waste-derived lactic acid
- Comparison of Batches from different waste streams
- Upscaling and evaluation

Helpful skills:

- Skills in building and optimizing organic synthesis
- Knowledge in handling NMR-Spectra
- Not afraid to ask questions (English/German)

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