

Running to Zero-Waste Future

Imagine one morning in 2050, your 3D printer provides you with the clothes for the day – outfit of synthetic spider silk, shoes from mushroom roots and a handbag made from pineapple leather. When the day is over, all your clothing can be composted with no waste.



“The world produces 92 million tons of textile waste every year” (Ruiz, 2023).

Redefining nature fibers, synthetic fibers, and bioengineered fibers might be effective solutions to help run to a zero-waste future.

~~Old
natural fibres~~

~~cotton
linen
wool~~

**New
natural fibres**

algae fibres
Pinatex
pineapple leather

~~Old
synthetic fibres~~

~~polyester
nylon~~

**New
synthetic fibres**

spider silk
Spiber
NorthFace



Bioengineered fibers made from living bacteria, yeast, animal cells or fungi can break down into nontoxic substances when eventually thrown away.

