

The Shimmering Wood Crystals

Shimmering Wood Crystals: Eco-Friendly Fashion Sparkle Redefined with Nanocellulose and 3D-Printed Wood, Crafted for a Sustainable Future

-

Hosted by: Structural Colour Studio

Project Information (EN)

Sustainable color from wood

Shimmering, glittering hues are created using a sustainable wood innovation. The environmental impact of traditional embroidery is addressed through a new concept: Shimmering Wood Crystals. These innovative "crystals" are crafted exclusively from renewable materials and are ethically produced in Finland. Their brilliance is celebrated with a step towards a more sustainable and ethical future for fashion. Throughout history, nature’s shiny materials, such as seashells and jewel beetle elytra, have been used by humans for adornment. Inspired by this tradition, the "shimmering wood crystal" concept has been developed by combining materials science with design and fashion. A wood crystal is crafted using 3D printing technology on silk organza with a biodegradable wood filament, then adorned with a nanocellulose-based structural color. This wood-derived color does not fade like pigments, and the final product is fully biodegradable and non-toxic, offering a revolutionary, sustainable alternative in fashion.

Projectinformatie (NL)

-

-

Image List

Filename	Caption	Credit
some2_1724862682.jpg		Juho Huttunen
87e26835-0d45-4d14-a909-2ab7a3a42489-3_1724862700.JPG		-
68c8d319-eb0d-4358-b2e6-e1897e6f1b9e-2_1724862708.JPG		-

The images above are included in the ZIP under /images.