

Unlocking CO₂-to-polymers with catalysts designed for industrial realities

The challenges to the chemical industry and its customers continue to mount. Companies must urgently defossilise and address the carbon emissions and other impacts related to the production of chemicals and their derived products, and this means alternative sources of carbon.

One area that has received attention in recent years is the use of CO₂ as a renewable feedstock for polymeric materials, enabled by chemical catalysts. However, compatibility with existing infrastructure and existing production schedules is often a critical factor for success of a new technology—and that has proved challenging.

Viridi has developed a new catalyst technology that uniquely meets the requirements of industry. Our catalyst is exceptionally efficient at inserting CO₂, regardless of source, at standard industrial pressures, at low temperatures and within a single industrial shift. Not only that, it is easily recoverable and re-useable, opening the way to a new, circular business model.

In this talk we will explore the uniqueness of Viridi's technology and model through the lens of our journey toward commercialisation in our beachhead market of surfactants.