

PIETRO CATALDI

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Pietro obtained his PhD in Bioengineering and Robotics in 2018 at the University of Genoa and the Italian Institute of Technology (IIT), working on materials for green electronics and robotics. In the same year, he joined the University of Manchester National Graphene Institute in the group of Prof. Ian Kinloch and Dr. Mark Bissett, working within the EU funded research project Graphene Flagship. Here, he became skilled in combining carbon-fillers' functionality with large-area production processes of the plastic/composite industry. In November 2020, Pietro moved to the group of Dr. Mario Caironi at IIT-Milan, working on the ELFO ERC project, whose goal is to develop electronic devices and sensors that are safely edible. In 2021, he was awarded a Marie-Curie Individual Fellowship and moved to IIT-Genoa in 2022 to develop degradable electrical conductors for robotic skins.

He is interested in emerging biobased and/or biodegradable materials for electronics/robotics, specifically in biopolymer-based composites and coatings engineered to fit multiple applications, from structural components to functional sensors.