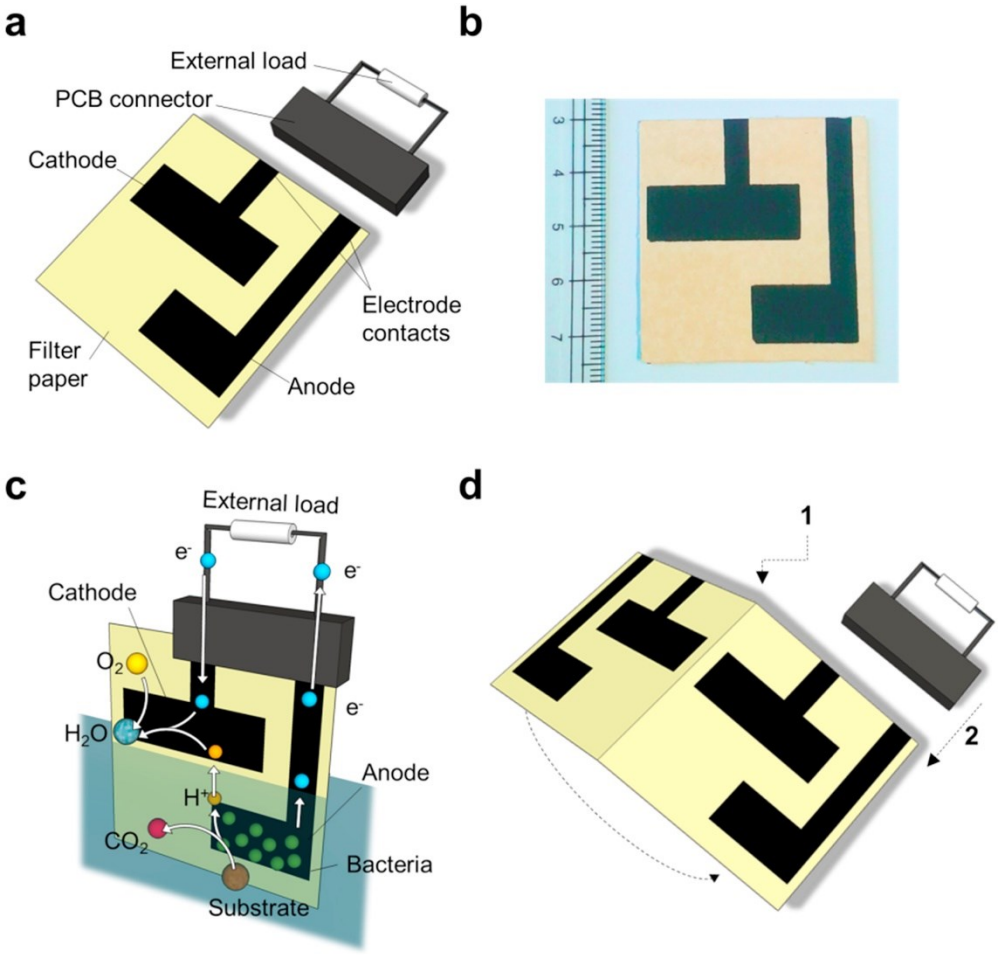
Environment friendly printed electrodes for MFCs

For the past two decades, many successful microbial fuel cell (METs) applications, such as bioenergy generation, environmental monitoring, resource recovery, and platform chemicals production, have been demonstrated. A promising technology is represented by the so call Plant-Microbial Fuel Cells (MFCs), a particular type of bioreactor that exploits symbiotic plants to increase the energy generated.

The thesis project will investigate the feasibility, creation, and characterization of innovative inkjet-printed electrodes to create environmentally friendly MFCs exploiting the state-of-the-art Ceradrop F-Serie deposition platform.



Chouler, Jon, et al. "A screen-printed paper microbial fuel cell biosensor for detection of toxic compounds in water."