

Flexible and bendable sensor platforms for monitoring of heritage artworks

Laser Induced Graphene (LIG) is a porous and conductive material generated by direct laser writing of flexible polyimide tapes. Due to its low cost, high speed of production and high throughput, the technique is ideal for generation of low cost electrode sensors for heritage applications. In this talk we will explore the use of LIG electrodes has electrochemical sensors and humidity sensors. Furthermore, we will explore the generation of LIG electrodes from natural polymer sources alternative to polyimide, which will open the way to fabrication of the new generation green sensors for monitoring of heritage artworks.