Fabrication of 3D nano/microelectrodes via two-photon-polymerization

The integration of two-photon polymerization technology with standard microfabrication techniques is imperative for the use of this tool in micro- and nanotechnology and especially for the future commercialization of the technology. In this work, we report a novel method for the fabrication of 3D polymeric structures via a two-photon polymerization based system. The method consists of combining a two-photon polymerization system with conventional photolithography techniques in order to create 3D polymer electrodes. The functionality of the final structures was confirmed by electrochemical characterization techniques.

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