

**Supplemental information for: “Platinum growth on Li-based thin films using thermal ALD , Manon LETICHE et al. abstract submitted for an oral**

Evaluation of the use of pure noble metal electrode (ex. Pt) on Li-based solid electrolyte for microsupercapacitor application.

Platinum process development on SiO<sub>2</sub> and LiPON substrates using TMA pre-pulsing:

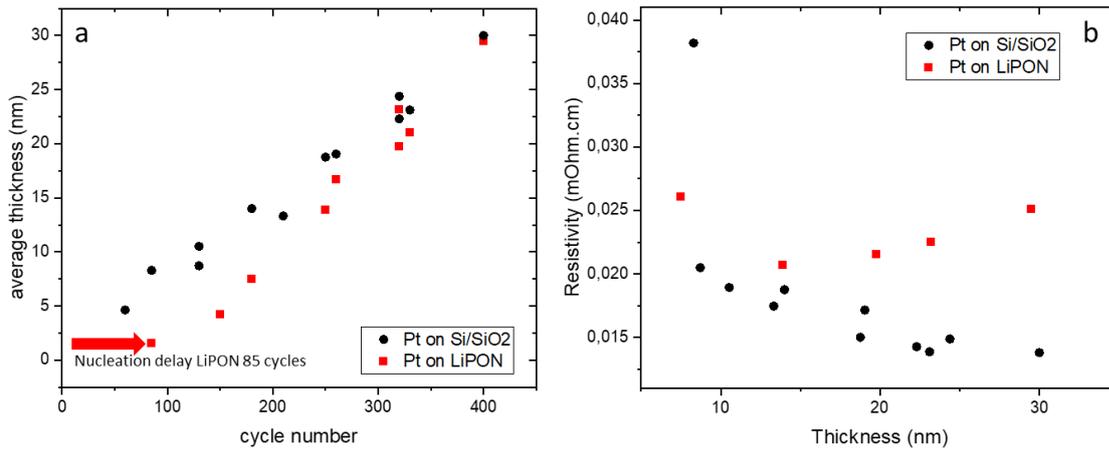


Figure 1: a) Average thickness determined by Ellipsometry vs cycle number evidencing nucleation delay on LiPON b) Resistivity of Pt thin film on LiPON and Si/SiO<sub>2</sub> substrates after TMA pre-pulsing.

Surface characterizations using TMA pre-pulsing or TiN interfacial layer on both substrates:

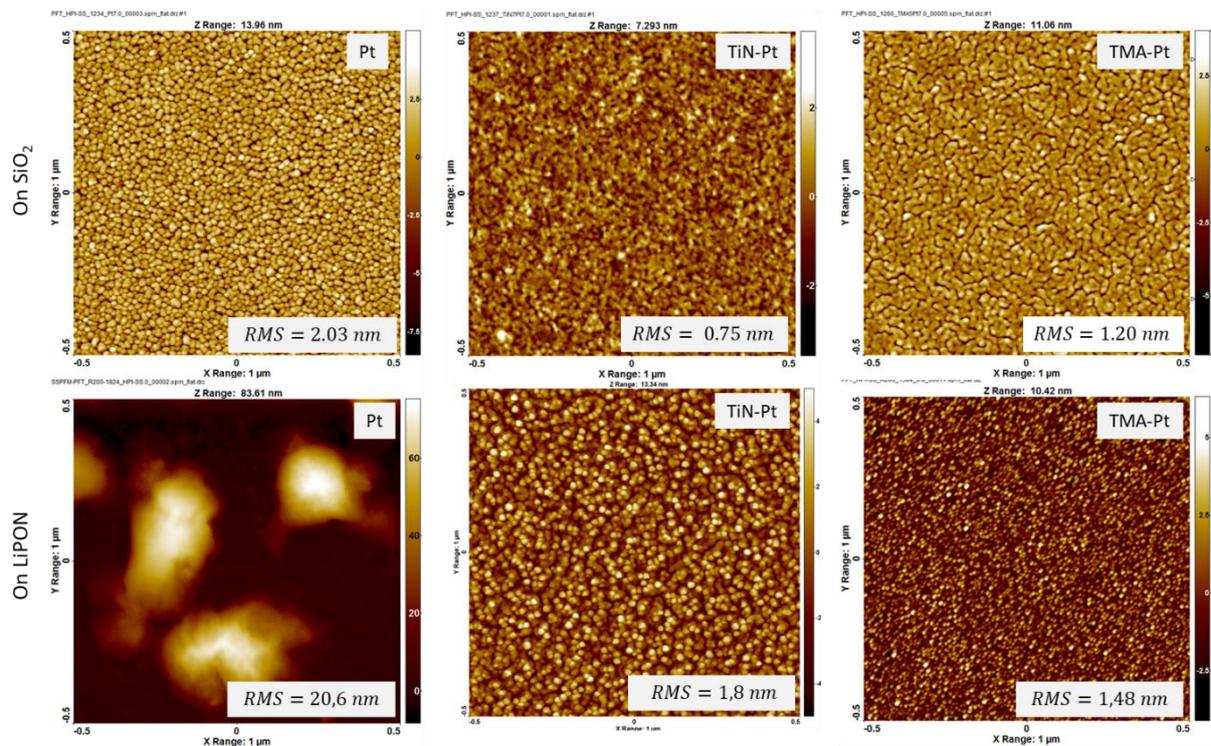


Figure 2: AFM characterizations on SiO<sub>2</sub> (top line) and LiPON (2nd line), without surface treatment (1st column), using TiN interfacial layer(2nd column), using TMA pre-pulsing last column