Electronic Supplementary Information (ESI)

**Fig. S1** – XRF image of standard (a) and flattened (b)

Chemical composition were same for standard mesh and flattened mesh (Ti/TiO$_2$-RuO$_2$-IrO$_2$) both are same chemical composition.

**Fig. S2**- System II – Consecutive experiment of standard electrode used for five cycles
Fig. S3- Current distribution on standard and flattened (TSIA) electrode mesh.