

Figure 1. (A) XRF measurements indicate that Ni is being incorporated more efficiently while being co-deposited within a FePO-NiPO ALD sequence. The incorporation of Ni per cycle doubles from a pure NiPO material to a 4 FePO – 1 NiPO mixed material. (B) XPS measurements indicate the effect of this increased incorporation on the overall composition of the material.

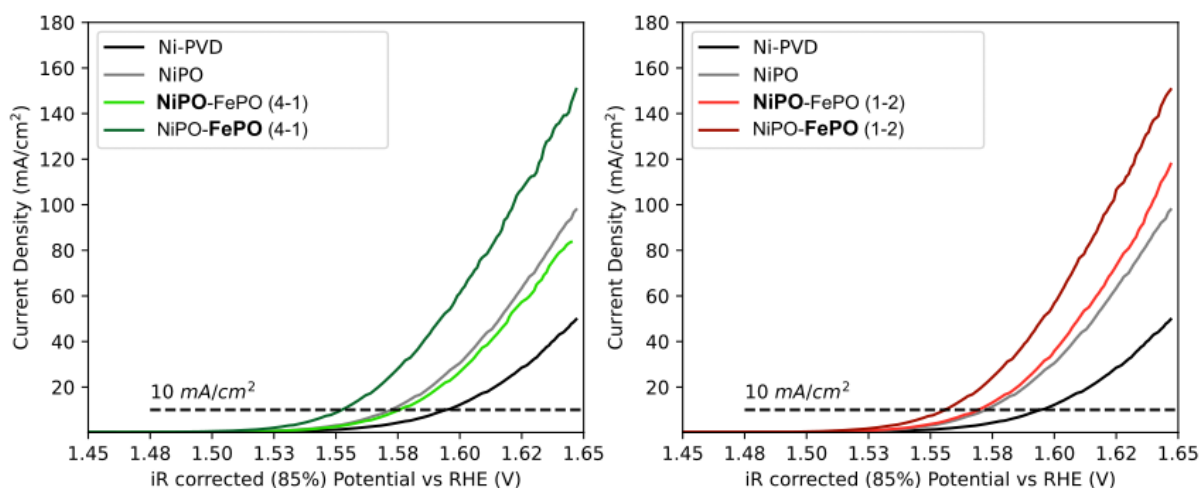


Figure 2. CV – results detailing the OER onset-region. For the mixed phosphates, bold font indicates the final process in the ALD supercycle. It is clear that the samples with FePO as terminating ALD layer ~~have way~~ show an increased activity compared to their NiPO terminated counterpart. The different compositions tested show that this trend is present for multiple compositions. Notable is that the **NiPO-FePO (1-2)** sample shows increased activity in comparison with the other NiPO terminated layer. We attribute this to the intermixing of the deposited layers with FePO being in closer proximity to the surface of the material.