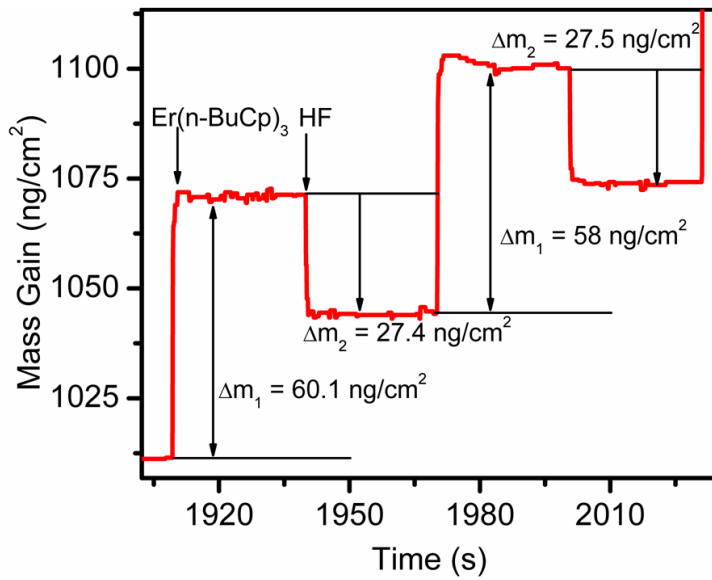
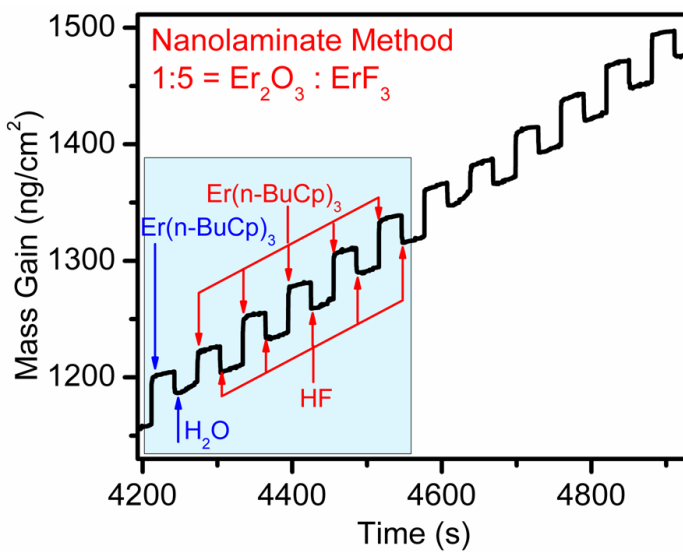


**Atomic Layer Deposition of Erbium Oxide, Erbium Fluoride and Stoichiometrically-Tunable Erbium Oxyfluoride Films**  
**Neha Mahuli and Steven George**



**Figure 1.** Mass changes during two cycles of  $\text{ErF}_3$  ALD using  $\text{Er}(\text{n-BuCp})_3$  and HF as the reactants at  $250^\circ\text{C}$ .



**Figure 2.** Mass changes during two supercycles during the growth of  $\text{ErO}_x\text{F}_y$  using the nanolaminate method with 1:5  $\text{Er}_2\text{O}_3$ :  $\text{ErF}_3$  cycles at  $250^\circ\text{C}$ .