Electronic Supplementary Material (ESI) for Journal of Materials Chemistry A. This journal is © The Royal Society of Chemistry 2017

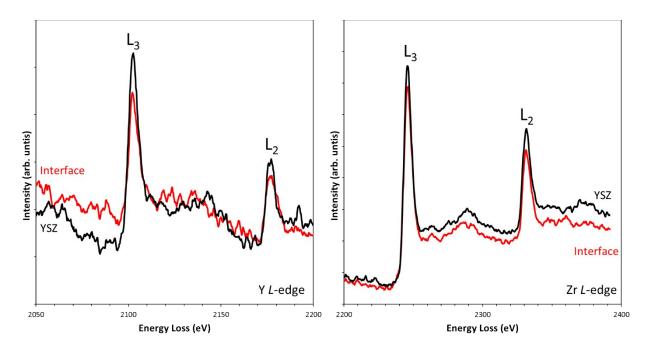


Fig. S1. STEM-EELS spectra of Y and Zr *L*-edge peaks acquired at the interface and YSZ substrate ~50 nm from the interface with SZY.

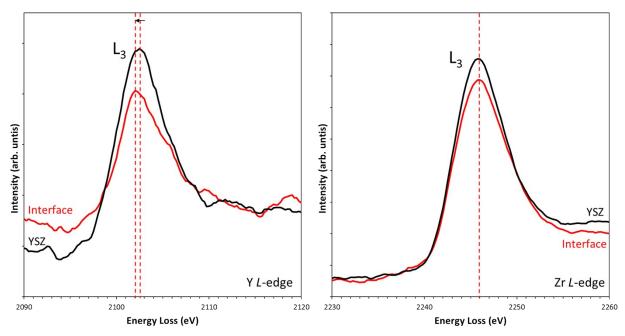


Fig. S2. Comparison of Y and Zr L_3 -edge peaks acquired at the interface and YSZ substrate ~50 nm from the interface with SZY. A significant decrease in intensity as well as a small shift (<~1 eV) towards lower energy loss is observed for the Y *L*-edge.