Electronic Supplementary Material (ESI) for Journal of Materials Chemistry C. This journal is © The Royal Society of Chemistry 2015

Supporting Information

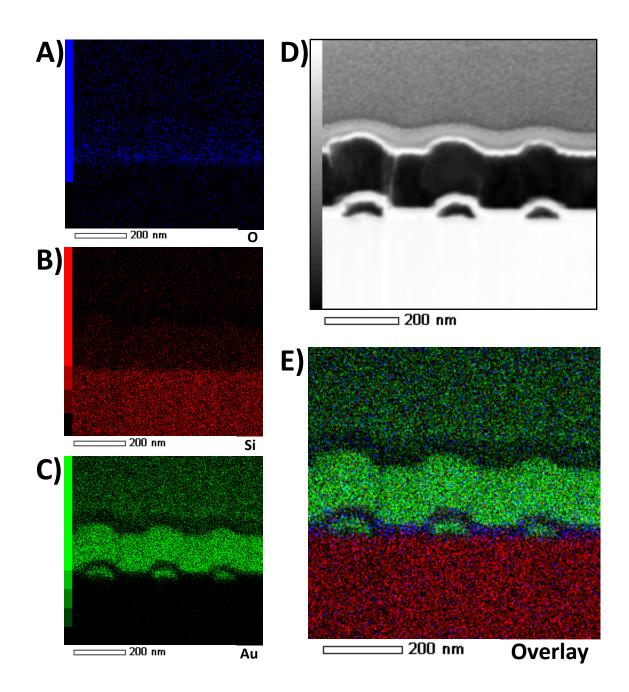


Figure S1. STEM images that map different layers of the gold nanoparticle cluster capacitive device stack with A) oxygen from the tunnel SiO₂, B) silicon substrate and C) gold from charge storage centers and top electrode. D) Cross section TEM image of the device with its composition identified and overlaid in E).

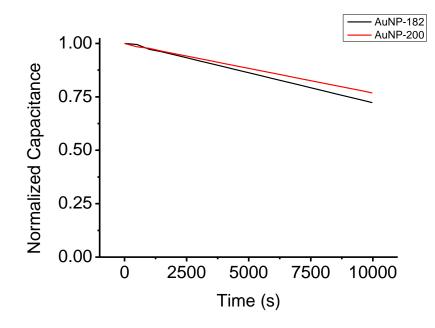


Figure S2. The retention characteristics of the gold nanocluster arrays (AuNP-182 and AuNP-200) show that close to 75% of the charge is retained after discharging the device for 10,000s.