Supporting Information

Bimetallic Flowers, Beads and Buds: Synthesis, Characterization and Raman Imaging of Unique Mesostructures

P. R. Sajanlal and T. Pradeep*

DST Unit on Nanoscience (DST UNS), Department of Chemistry and Sophisticated Analytical Instrument Facility, Indian Institute of Technology Madras, Chennai - 600 036, India

*E-mail: pradeep@iitm.ac.in

Supporting information 1

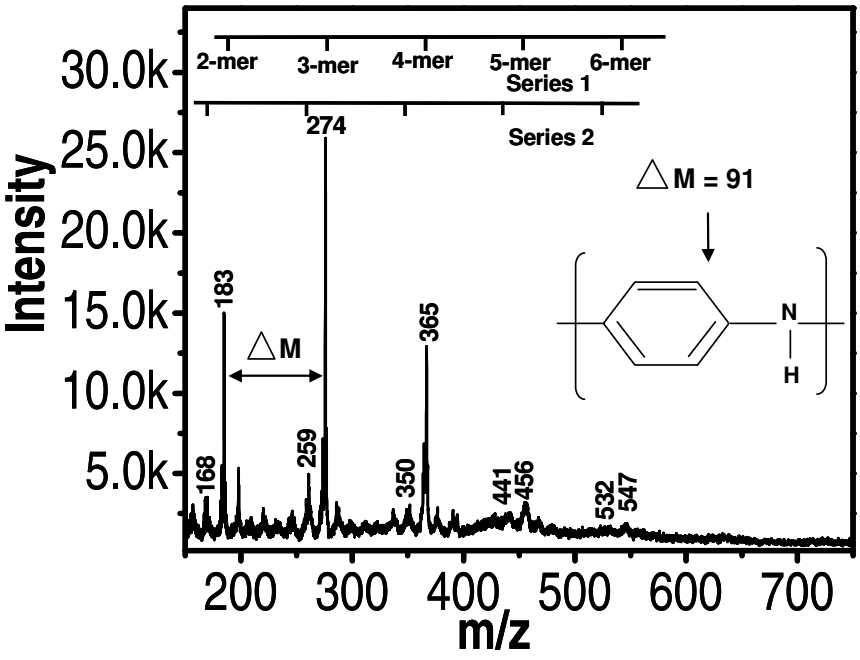

Figure S1. LDI mass spectrum of the Au/OA NWs taken in the positive mode. There are two series which are labeled.

Supporting information 2

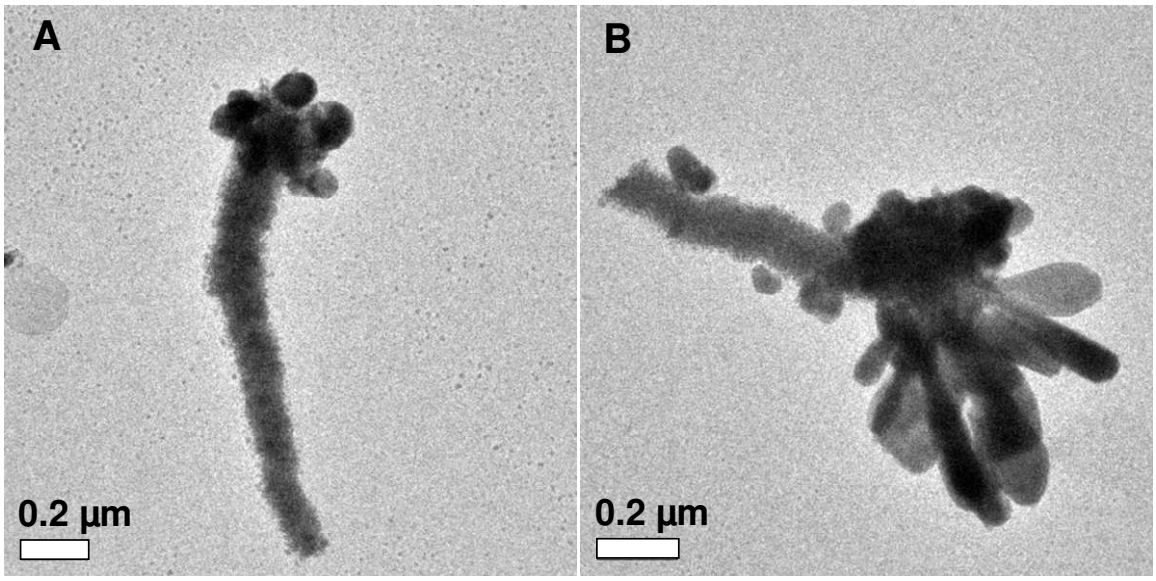

Figure S2. TEM images of the intermediate mesostructures isolated after (A) 30 min and (B) 3 h.

Supporting information 3

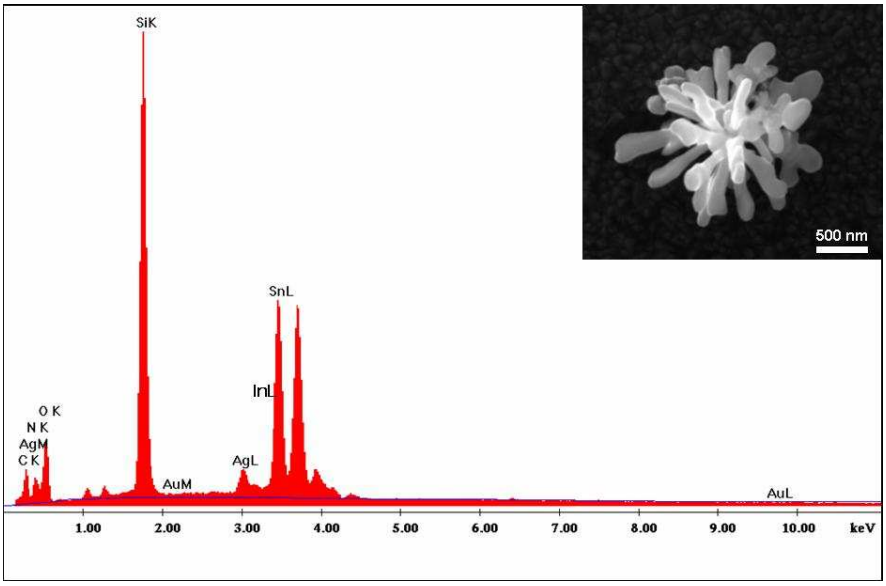

Figure S3. EDAX spectrum collected from the Ag flower formed (inset) after 10 h of the reaction (the elements, In, Sn and Si are due to the ITO conducting glass substrate).

Supporting information 4

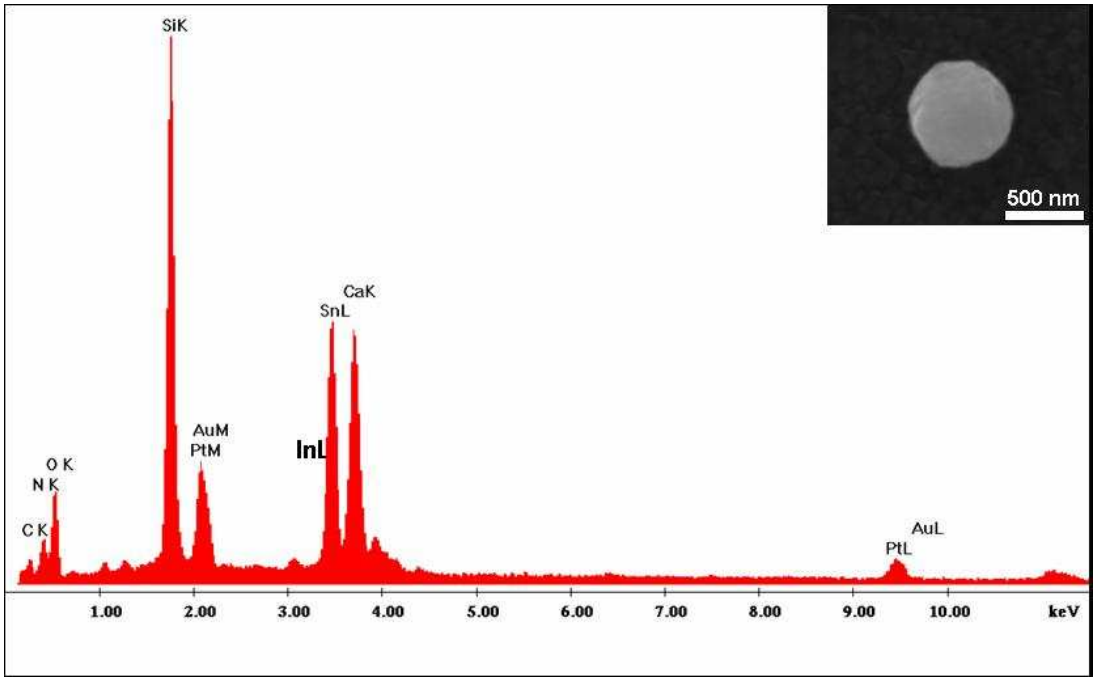

Figure S4. EDAX spectrum collected from the Au/Pt bead (inset) formed after 6 h of Pt overgrowth (the peaks corresponds to In, Sn and Si are due to the ITO conducting glass substrate).

Supporting information 5

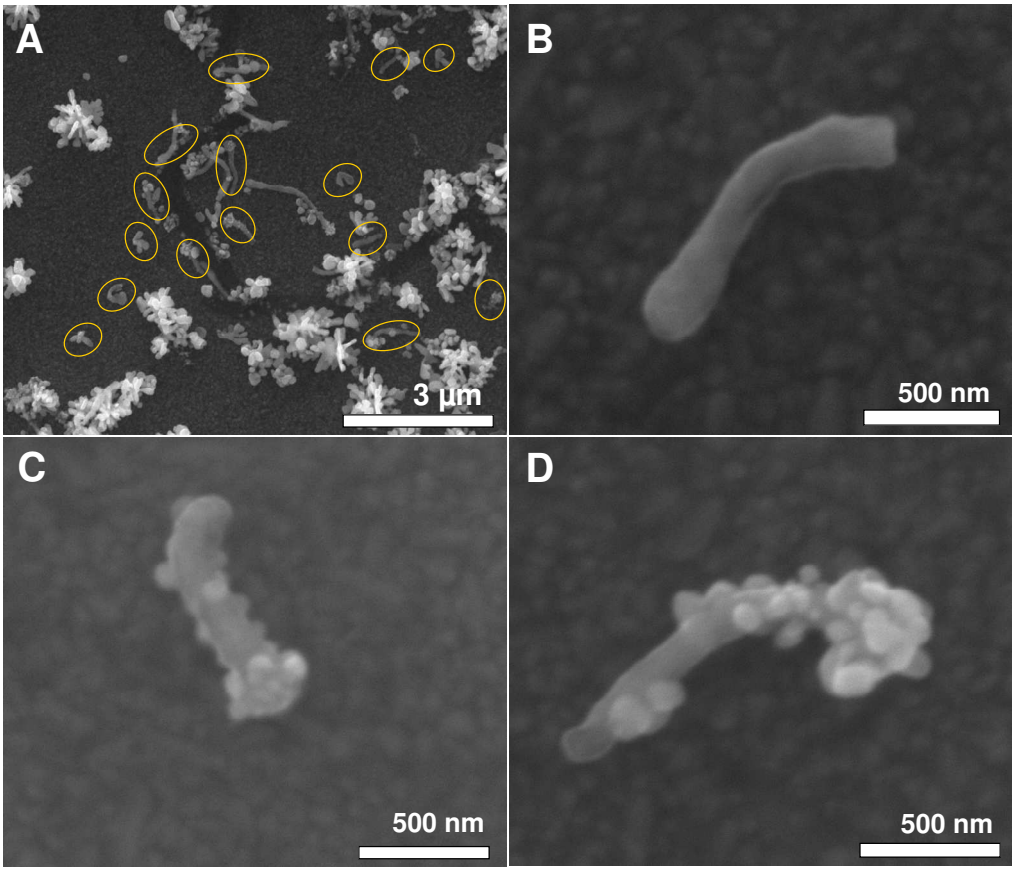

Figure S5. SEM images at different magnifications collected after 6 h. (A) Large area image showing Au/OA NWs of reduced length (circled). (B-D) Single Au/OA NW with reduced length collected from various areas of the ITO.