Supporting information for

Transformation of Truncated Gold Octahedrons into Triangular Nanoprisms through the Heterogeneous Nucleation of Silver

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Fig. S1 SEM images showing the shape transformation which occurs when (a) Wulff-shaped Au templates are exposed to a Ag vapour at 775 °C for (b) 30, (c) 60, (d) 90 and (e) 180 min.



Fig. S2 SEM image of $Au_{0.5}Ag_{0.5}$ nanostructures derived from the dewetting of an alloyed film. Note that triangular nanoprism formation is not favoured in the dewetting process.



Fig. S3 SEM image of the pure Ag nanostructures formed when carrying out the same assembly route using homogeneous Ag nucleation sites instead of the heterogeneous Au nucleation sites. Note that the homogeneous nucleation sites are unable to nucleate Ag nanoprisms in high yield.