

Supporting Information

for

Dealloying of gold–copper alloy nanowires: From hillocks to ring-shaped nanopores

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Additional figures

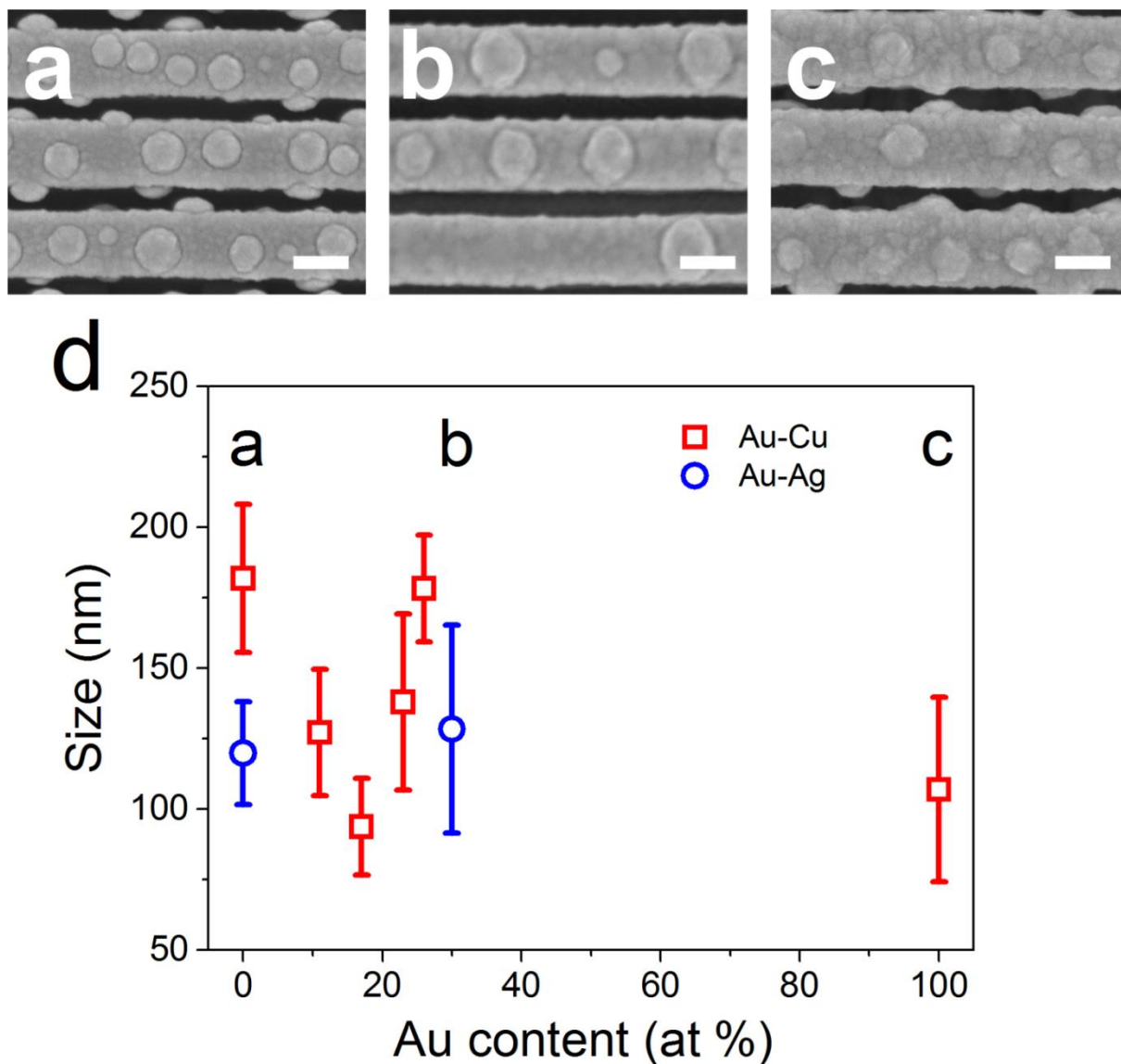


Figure S1: Influence of materials on hillocks diameter for the different metals deposition. Plan view SEM micrograph of (a) pure silver, (b) Ag–Au alloy with 30 at % of silver and (c) pure gold nanowires. Scale bar: 200 nm. (d) Evolution of the hillocks diameters for two different alloys: Au/Cu (open red square) and Au/Ag (open blue circle).

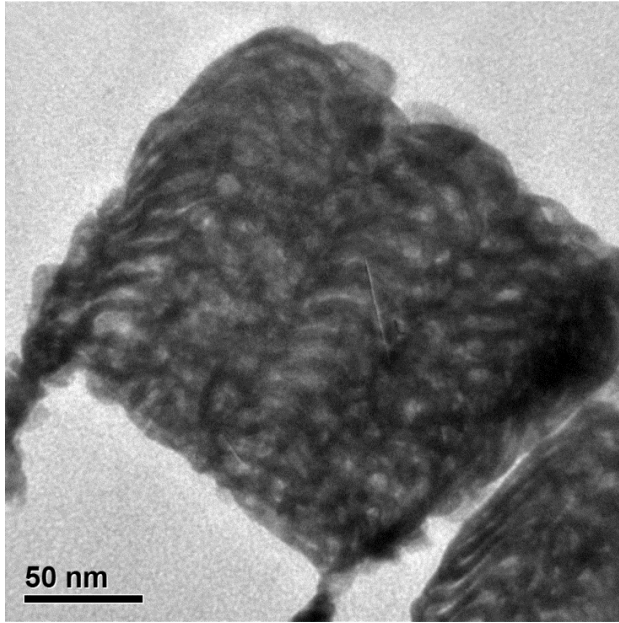


Figure S2: Cross-section TEM image of a Au–Cu nanowire showing the presence of hillocks within the nanowire exhibiting a conical shape.

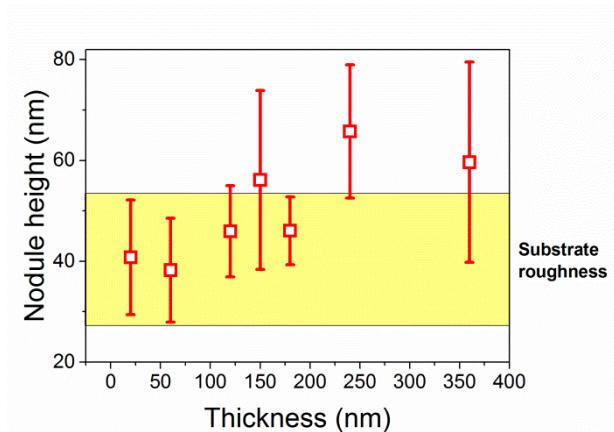


Figure S3: Influence of nodule height after different deposition duration of copper in comparison with the substrate roughness.

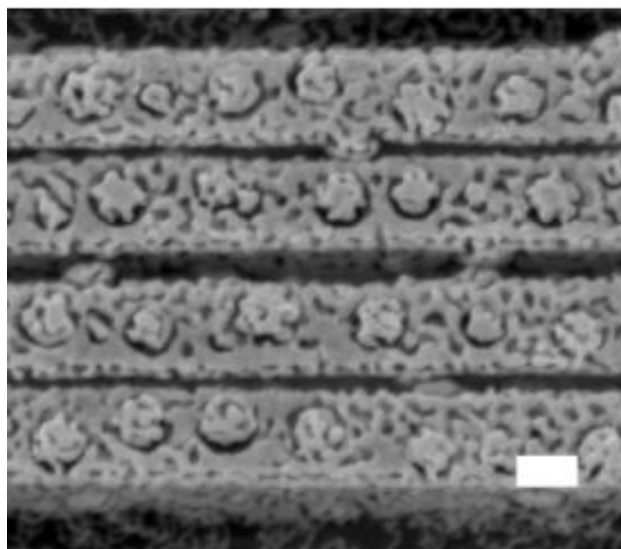


Figure S4: SEM image of Au–Cu nanowires with 23 at % of initial gold content after dealloying for 5 min at 0.5 V. Scale bar: 100 nm.