

Supporting Information

Controlled Synthesis of Ultrathin ZnO Nanowires with Sub-10 nm Diameter using Micellar Gold Nanoparticles as Catalyst Template

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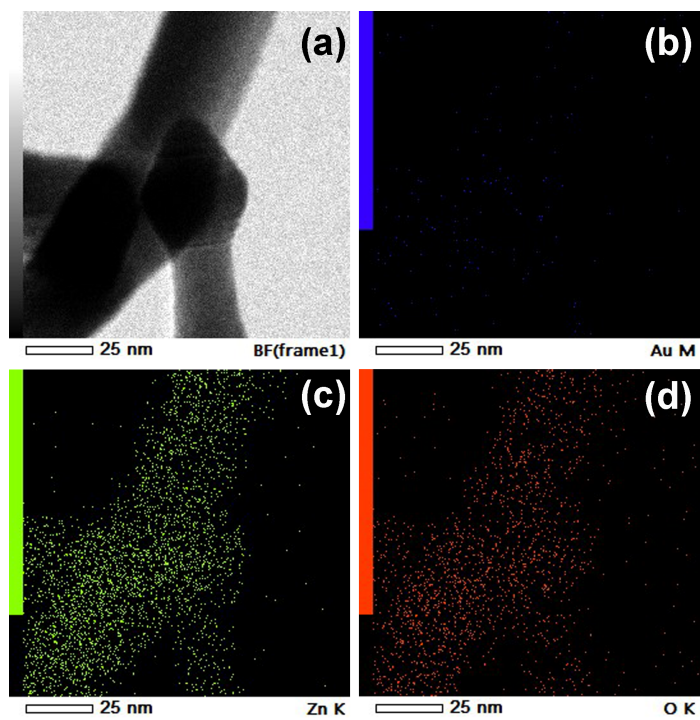


Figure S1 (a) A TEM image of an individual nanowire with a capped tip; (b), (c) and (d) shows the STEM elemental mapping (Au, Zn and O) done on this nanowire respectively.

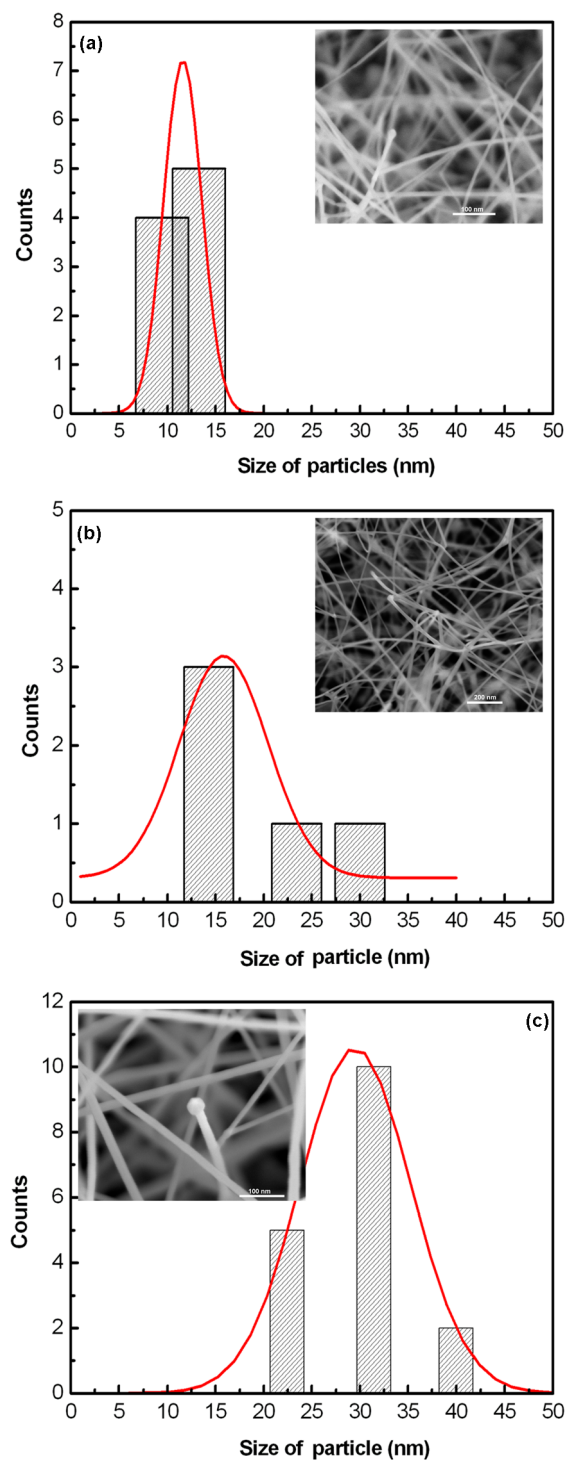


Figure S2. SEM pictures and corresponding size distribution of particles after wire growth at the tip end with the average size of 11.6 ± 2 nm (a), 17.7 ± 3 nm (b) and 30 ± 6 nm (c) for the nanowires with average diameter of 6 nm, 10 nm and 16 nm, respectively.

Table S1. Average size of starting Au nanoparticles, as-obtained ZnO nanowires and particles after wire growth at the wire tip.

Size of starting Au NPs (nm)	3.1 ± 0.4	6.5 ± 0.6	9.0 ± 0.8
Diameter of obtained ZnO NWs (nm)	6 ± 1.8	10 ± 3	16 ± 4.5
Size of particles after growth (nm)	11.6 ± 2	17.7 ± 3	32 ± 6