Supporting information

Wires, plates, flowers, needles and core-shells: Diverse nanostructures of gold using polyaniline templates

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Supporting information 1



Figure S1. TEM images of the oligomeric aniline coated gold nanoparticles.

Supporting information 2



Figure S2. SEM images of crystallized oligoaniline-coated gold nanoparticles (A and B). C and D are optical images of the same sample.

Supporting information 3



Figure S3. SEM images of the polyaniline-coated nanowire (A and B). Some of the larger dots in A are due to the vertically aligned wires. SEM images of the core-shell nanoparticles formed after the pH reversal experiments (C and D).

Supporting information 4



Figure S4. XRD of polyaniline-coated gold nanowires.

Supporting information 5



Figure S5. (A) Large area TEM image of the smaller nanoparticle formed after the addition of Au³⁺ into the solution containing PVP and oligoaniline AuNPs and (B) Lattice resolved image of a single nanoparticle.