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Supplementary data: Synthesis of biocompatible Au-ZnTe core/shell nanoparticles.

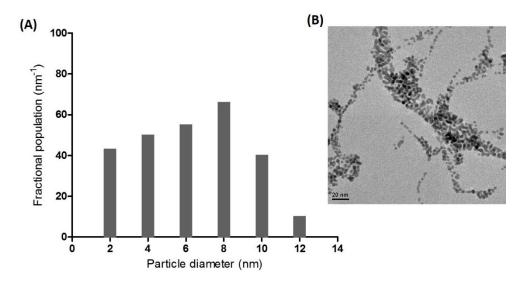


Figure 1. (A) Size distribution of Au-ZnTe core shell nanoparticles highlighting particles within the 2-10 nm range The average size of the particles are 7 nm, $SD \pm 3.74$ nm. **(B)** TEM micrograph of Au-ZnTe nanoparticles showing uniform, spherical morphology.

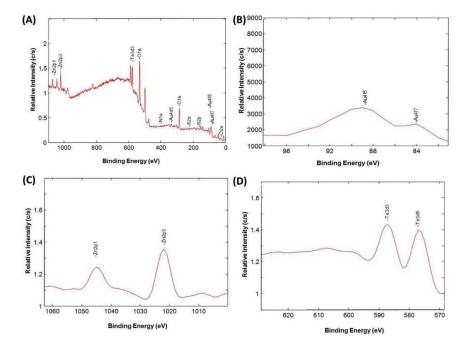


Figure 2. (A) XPS spectrum of Au-ZnTe core shell nanoparticles. **(B)** Binding energy spectrum of Au.**(C)** Binding energy spectrum of Zn. **(D)** Binding energy spectrum of Te.

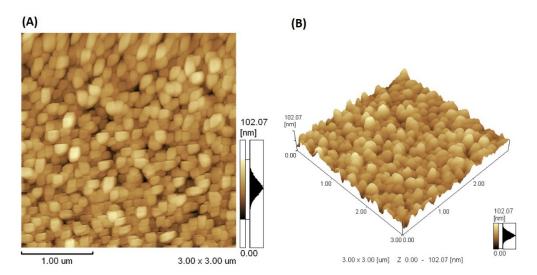


Figure 3. (A) Two dimensional image of Au-ZnTe core/shell nanoparticles showing uniform arrangement of nanoparticles (**B)** Three dimensional image of Au-ZnTe core/shell nanoparticles showing uniform surface height.