

Supplementary Material (ESI) for Journal of Materials Chemistry  
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## **Electronic Supplementary Information**

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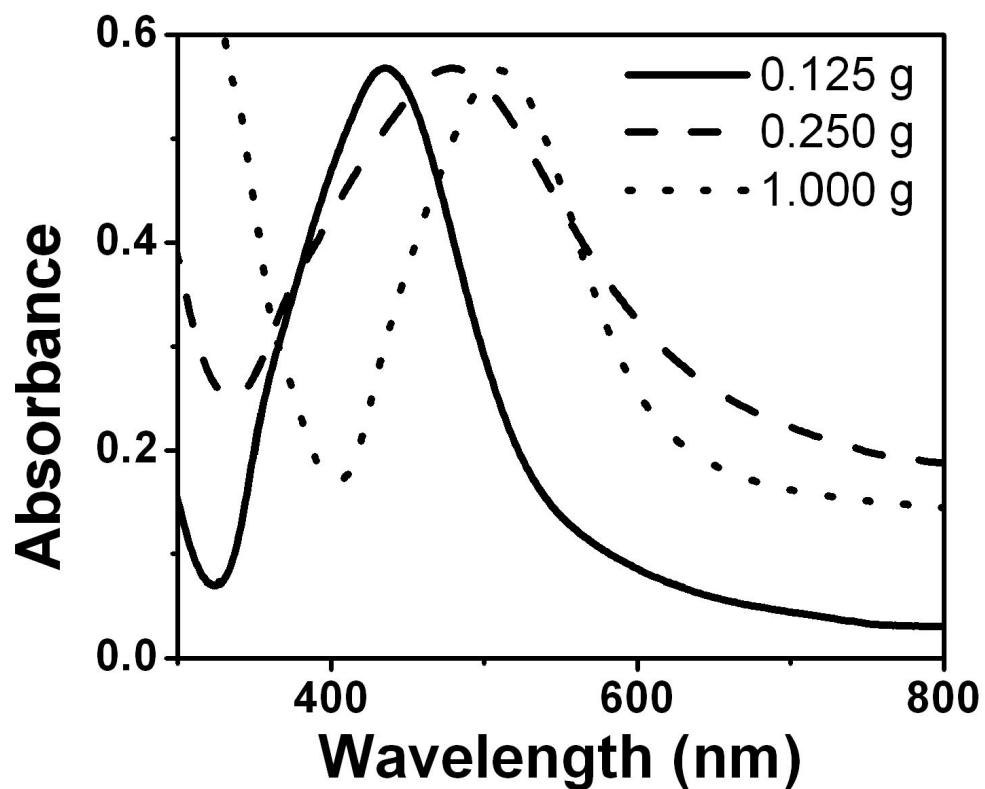
Polymerization of benzyl thiocyanate on silver nanoparticles and the formation of polymer coated nanoparticles

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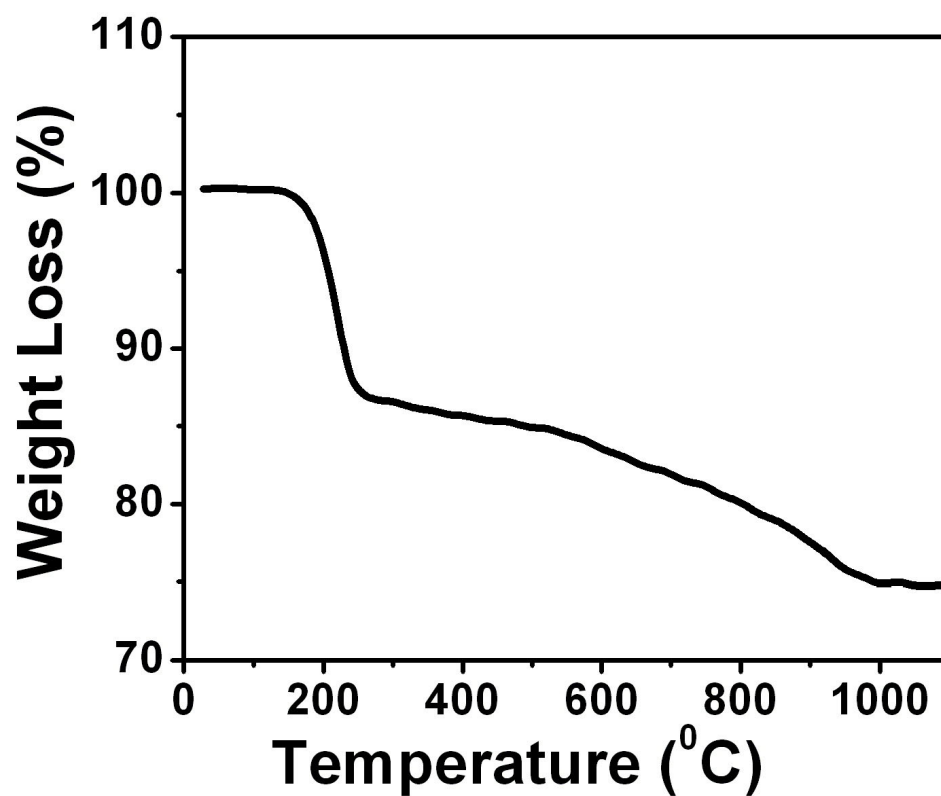
Fig. S1



UV-vis spectrum of Ag-PBT as a function of the amount of benzylthiocyanate used for the synthesis. The data show that the shell thickness can be systematically varied by controlling the reaction conditions. The reaction time was three weeks for all.

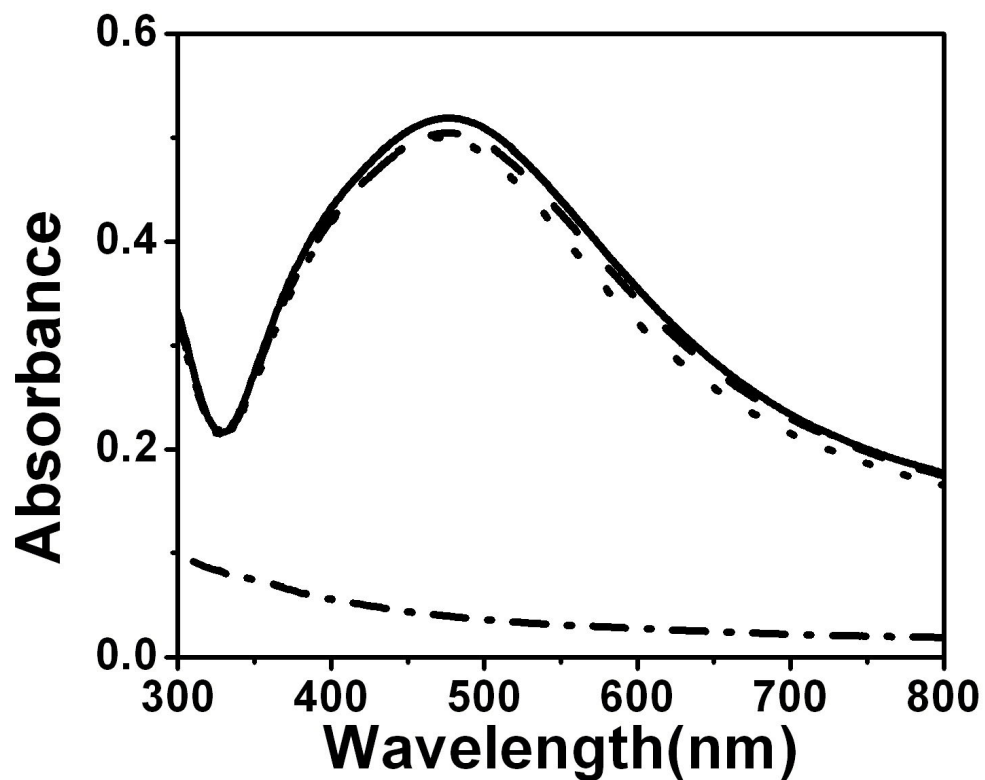
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Fig. S2



Thermogravimetric data of Ag-PBT. The heating rate was 10<sup>0</sup> C per minute.

Fig. S3



UV-vis spectra of Ag-PBT treated with cyanide in water-isopropyl alcohol mixture. The silver core remained stable even for a day in 2 mM NaCN. Ag-PBT (—); 1 h after the addition of 2 mM CN<sup>-</sup>(- - - - -); after 24 h (.....); after adding 10 mM NaCN (- · - · - ·).