

Figure S1 (a) SEM image and (b) XRD pattern of Ag<sub>2</sub>Te particles synthesized without dodecanethiol at 443K for 10min



Figure S2 (a) TEM image and (b) XRD pattern of 15-nm Ag<sub>2</sub>Te particles after hot-pressed at 673 K

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Figure S3 Temperature dependent DSC result of 15-nm Ag<sub>2</sub>Te nanoparticles