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Title: Facile method to prepare CdS nanostructure based on the CdTe films

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Highlights

1. CdS nanostructure is directly fabricated on CdTe film only by heating treatment under $\text{H}_2\text{S}/\text{N}_2$ mixed atmosphere at a relatively low temperature (450°C) with gold layer as the intermediate.
2. Nanostructure of CdS layer, varying from nanowires to nanosheets, may be controlled by the thickness of gold film.
3. The change of morphology adjusts its luminescence properties.

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