

## Supporting Information Available

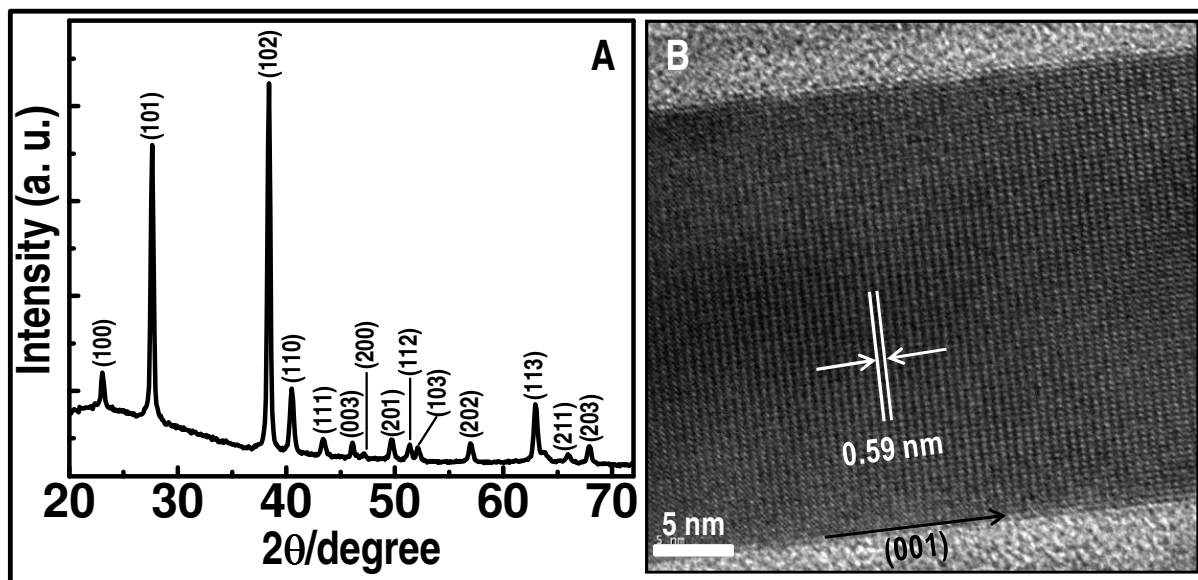
### Pt<sub>3</sub>Te<sub>4</sub> Nanoparticles from Tellurium Nanowires

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#### Supporting Information 1



**Figure S1.** (A) XRD pattern of Te NWs. All the peaks are indexed to hexagonal Te, and (B) HRTEM image of the body of a single nanowire (B).

Supporting Information 2

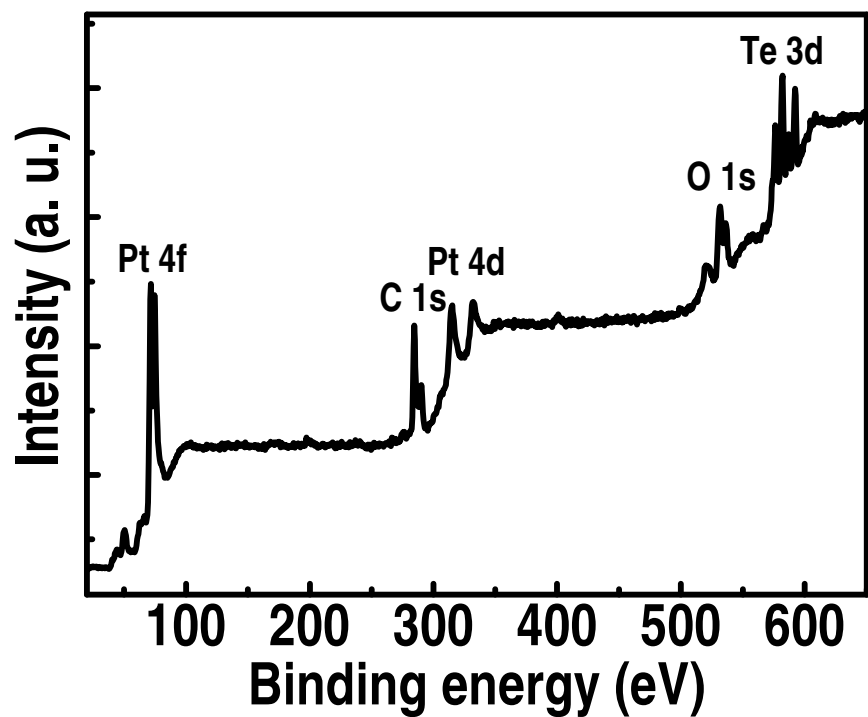


Figure S2. XPS survey spectrum of  $\text{Pt}_3\text{Te}_4$  NPs.

Supporting Information 3

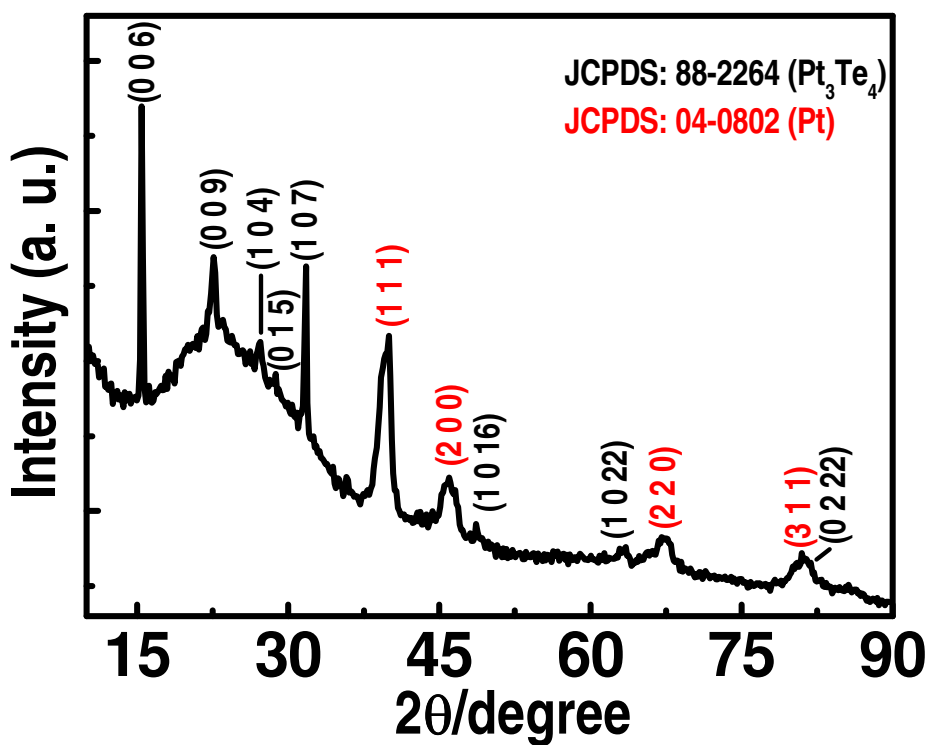


Figure S3. XRD of the reaction product of Te NWs and  $\text{PtCl}_6^{2-}$  (1:3),  $\text{Pt}_3\text{Te}_4$  (black) and Pt (red).

Supporting Information 4

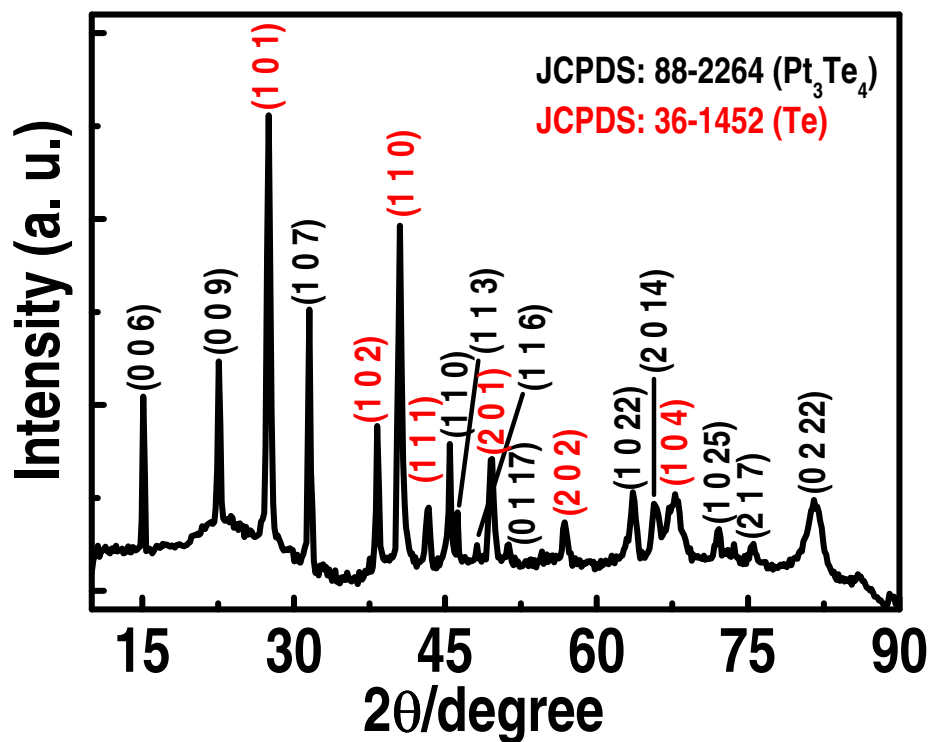


Figure S4. XRD of the reaction product of Te NWs and  $\text{PtCl}_6^{2-}$  (3:1),  $\text{Pt}_3\text{Te}_4$  (black) and Te (red).

Supporting Information 5

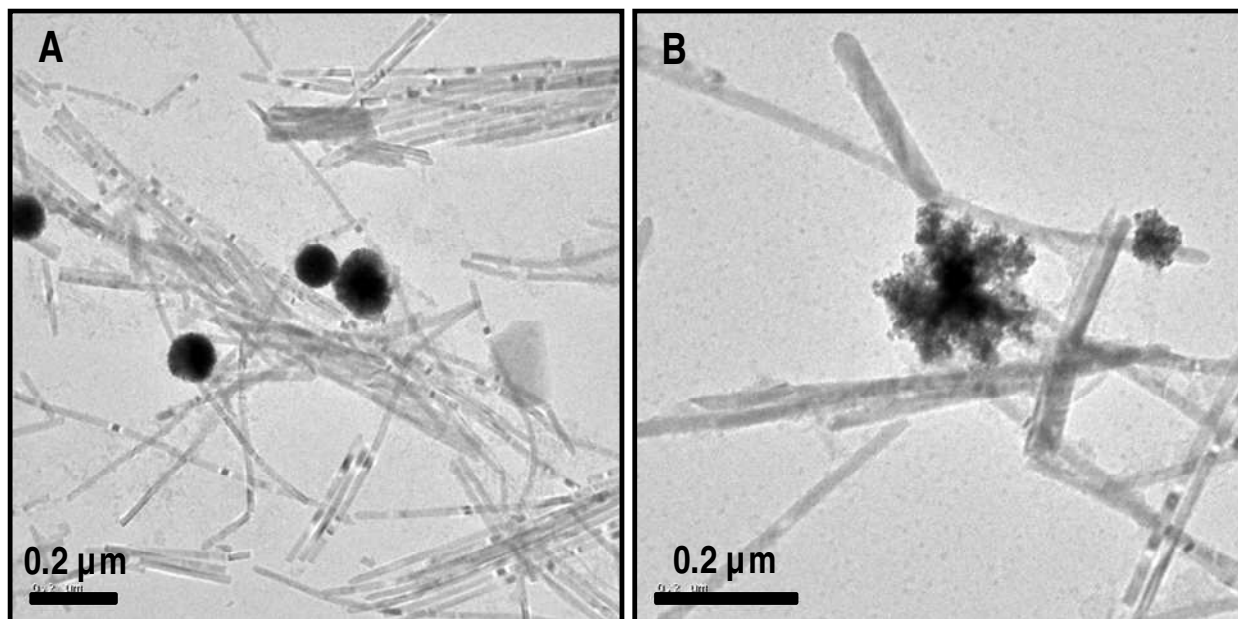


Figure S5. TEM images at different time intervals during the growth of  $\text{Pt}_3\text{Te}_4$  NPs; (A) after 4 h, and (B) after 10 h. The broken NWs are evident.