

**Supplementary Information for**

**Ionic-liquid assisted synthesis of Ag/Ag<sub>2</sub>Te nanocrystals via hydrothermal route for enhanced photocatalytic performance**

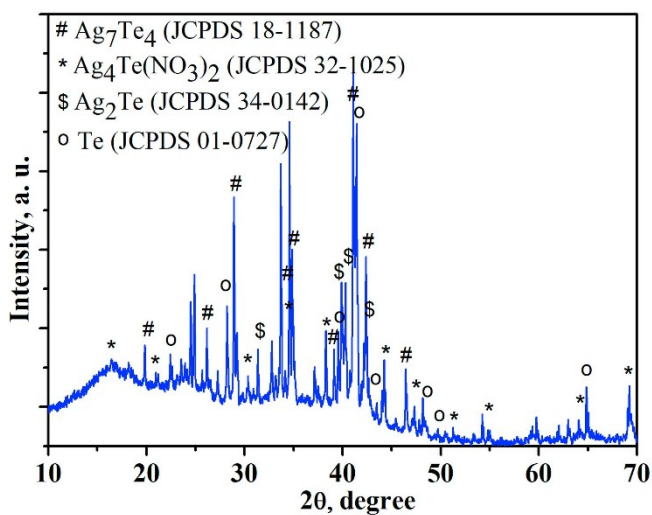
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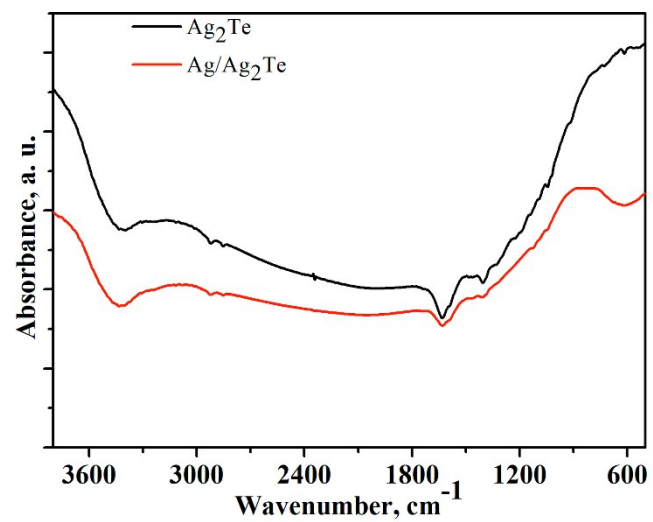
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**Fig. S1** XRD pattern of as-prepared sample in absence of ionic liquid



**Fig. S2** FTIR spectrum of Ag<sub>2</sub>Te and Ag/Ag<sub>2</sub>Te nanocrystals in presence of ionic liquid