

## Atmospheric annealing effect on TiO<sub>2</sub>/Sb<sub>2</sub>S<sub>3</sub>/P3HT heterojunctions hybrid solar cells performance

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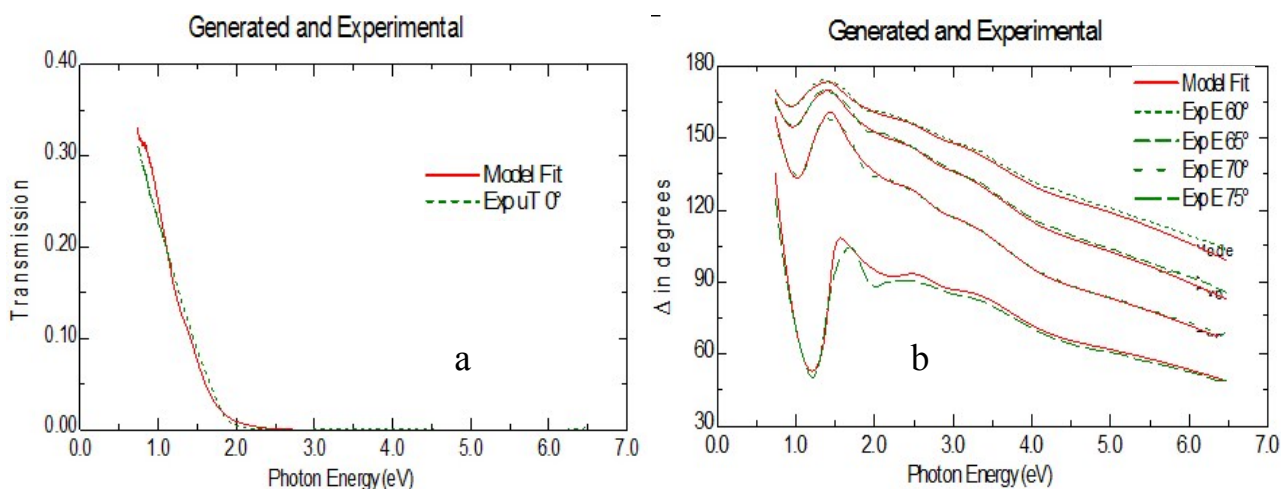
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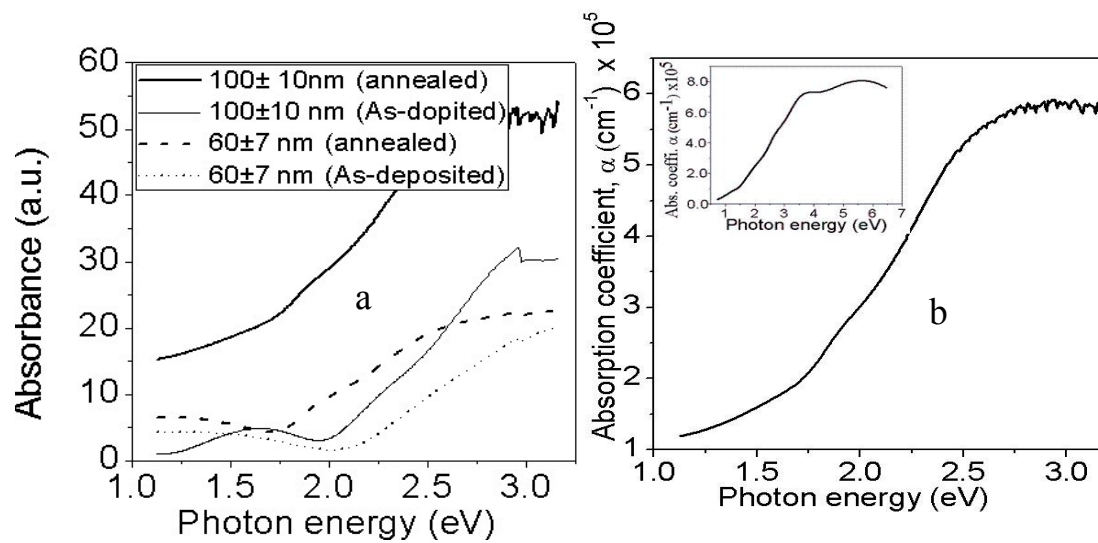
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**Fig. 1.S1** Fitting data with model for 100.0±10 nm thickness of Sb<sub>2</sub>S<sub>3</sub> (a) transmittance vs. photon energy and (b) delta vs. photon energy.



**Fig.2.S2** (a) Absorbance of  $\text{Sb}_2\text{S}_3$  for 60.0±7 and 100.0±10 nm thickness, and (b) absorption coefficient for 100±10 nm thickness.