Supporting Information

**Rapid and scalable synthesis of crystalline SnO2 nanoparticles with superior photovoltaic properties by flame oxidation**

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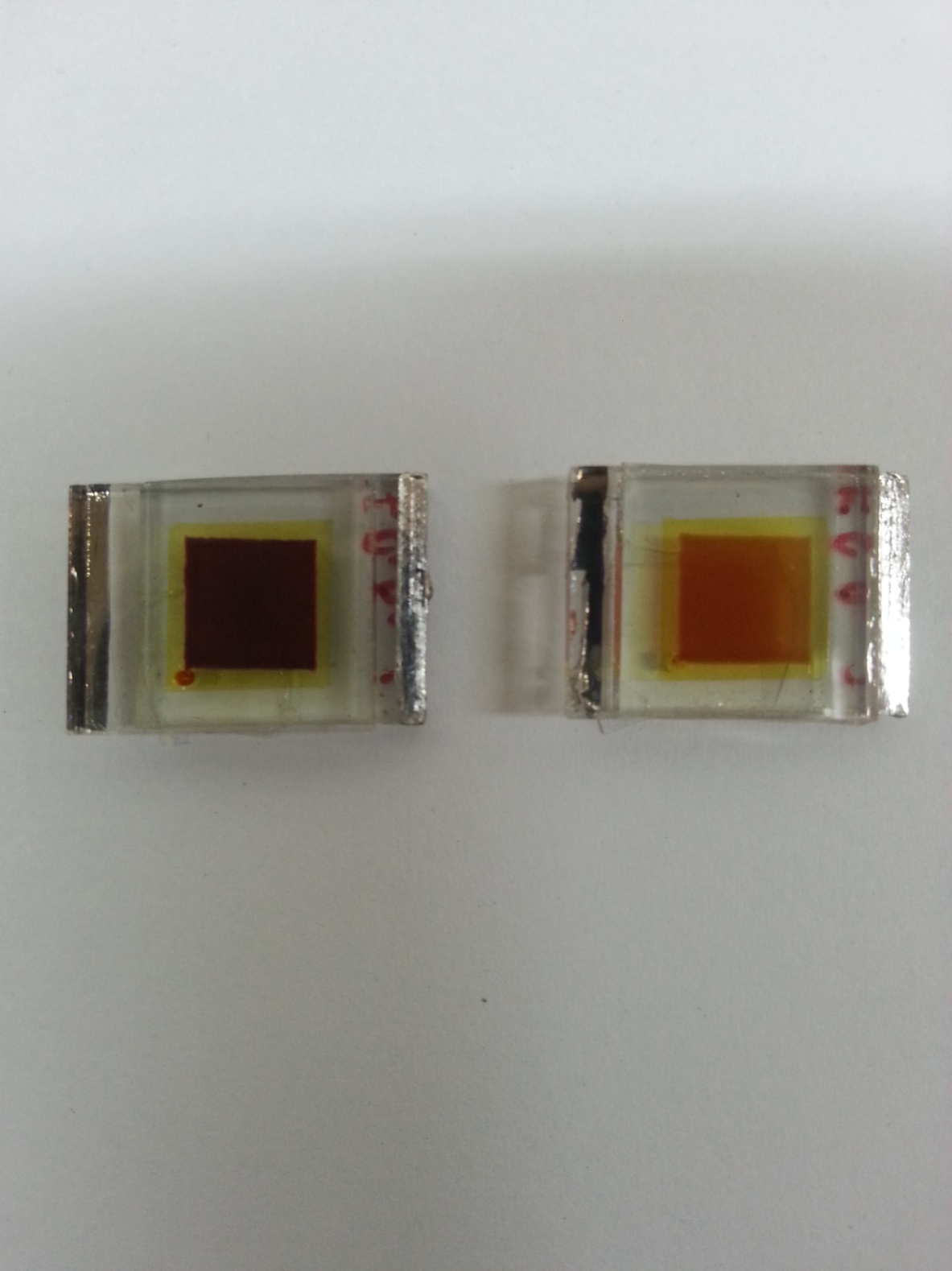
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**Fig. S1** Digital photograph of Sn feedstock (left) and flame syntheisized SnO2 nanoparticles (right) in a glass vial. To facilitate the volume comparison, both samples are weighed 1 g.



**Fig. S2** SEM image (left) of flame synthesized SnO2 nanoparticles. High magnification SEM image (right) of marked region reveal the presence of loosely agglomerated primary nanoparticles.

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**Fig. S3** Digital photographe of sealed dye-sensitized solar cell fabricated with flame-SnO2(left) and control-SnO2(right) photoanode.