

# **Sintering and electrical characteristics of In<sub>2</sub>O<sub>3</sub>-based targets doped with multiple components for solar cells**

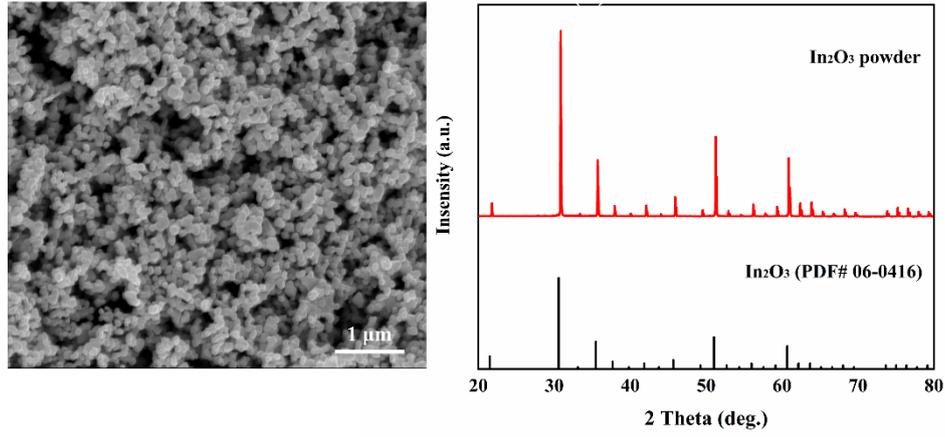
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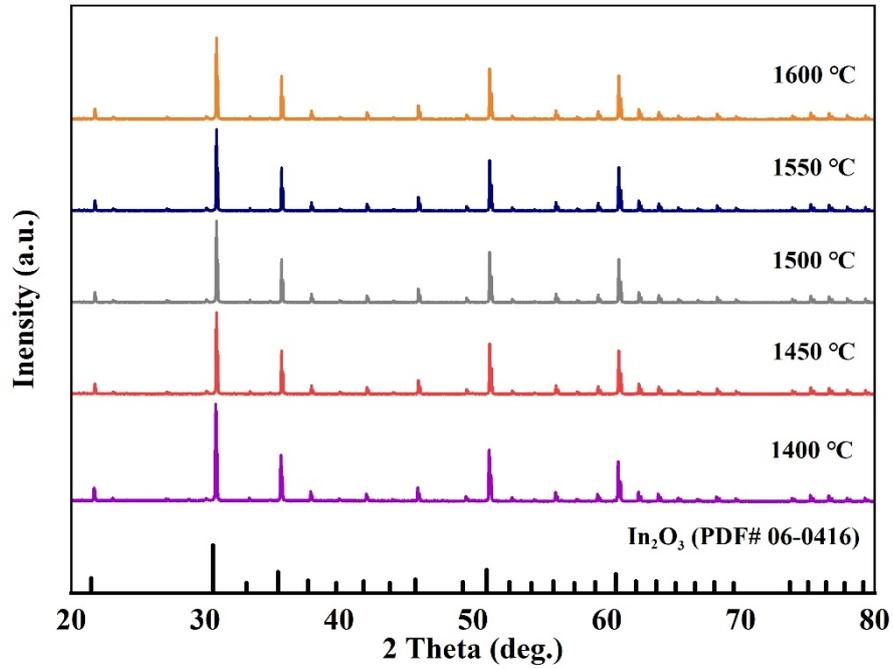
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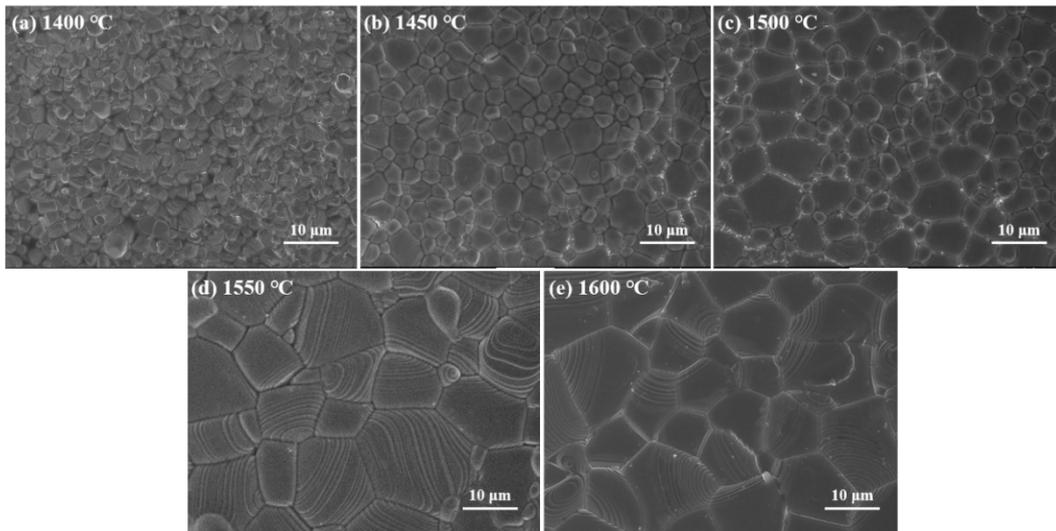
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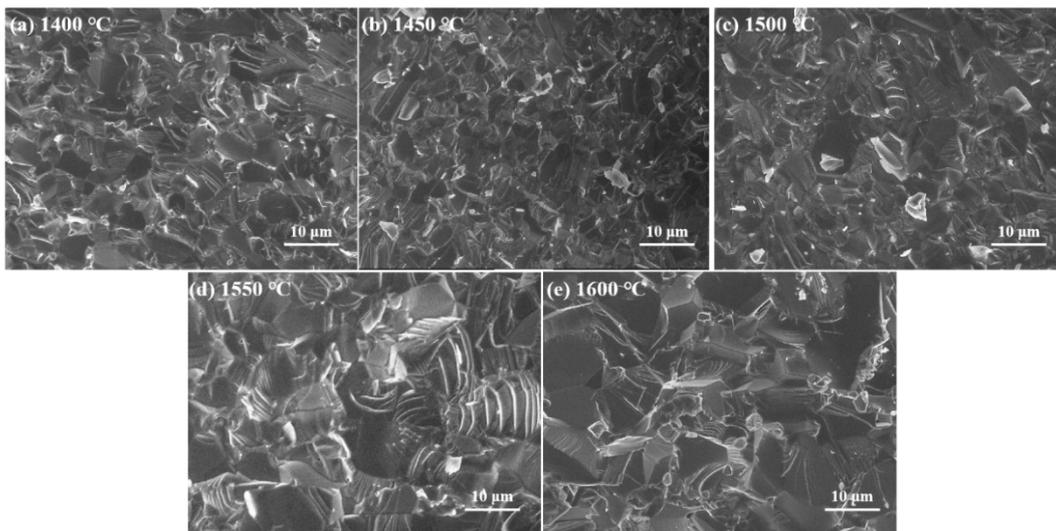
**Fig. S1** (Color online) (a) microstructure and (b) XRD patterns of In<sub>2</sub>O<sub>3</sub> powders



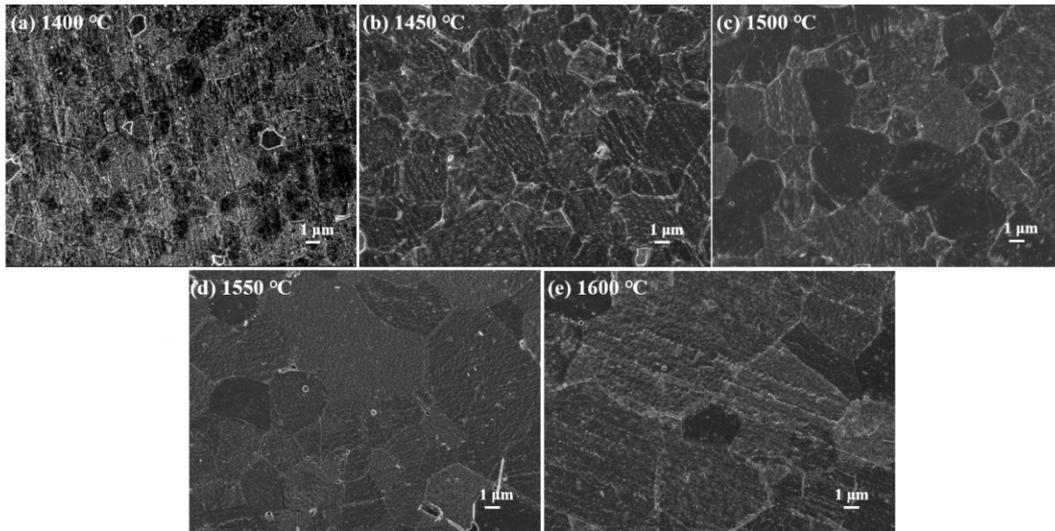
**Fig. S2** (Color online) XRD patterns of the ICTO targets sintered at different temperatures for 6 h



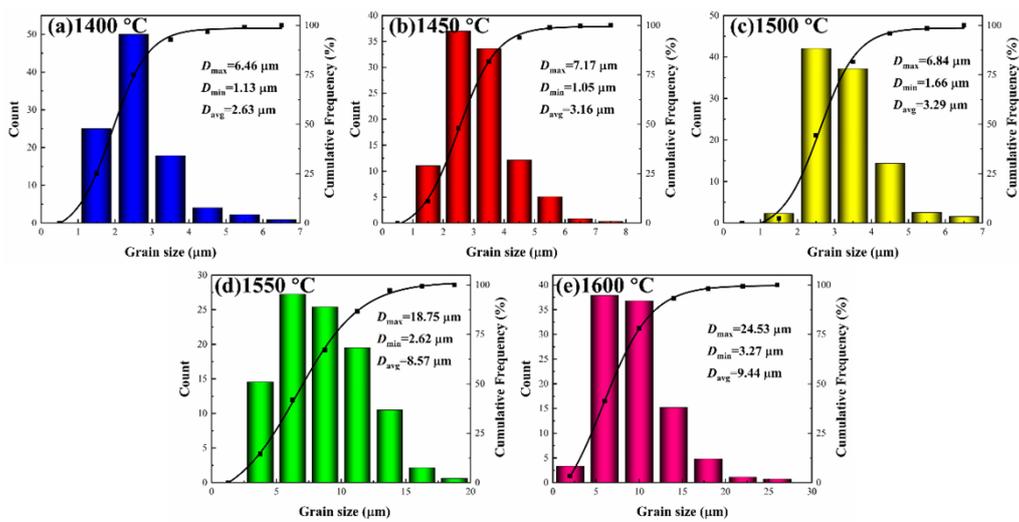
**Fig. S3** Surface morphologies of the ICTO targets sintered at different temperatures for 6 h



**Fig. S4** Cross-sectional morphologies of the ICTO targets sintered at different temperatures for 6 h



**Fig. S5** The polished and etched morphologies of the ICTO targets sintered at different temperatures for 6 h



**Fig. S6** (Color online) Grain size distribution of the ICTO targets sintered at different temperatures for 6 h