

## **Electronic Supplementary Information (EIS)**

### **Synthesis of Low-cost, Rubbery Amphiphilic Comb-like Copolymers and Their Use in the Templated Synthesis of Mesoporous TiO<sub>2</sub> Films for Solid- state Dye-sensitized Solar Cells**

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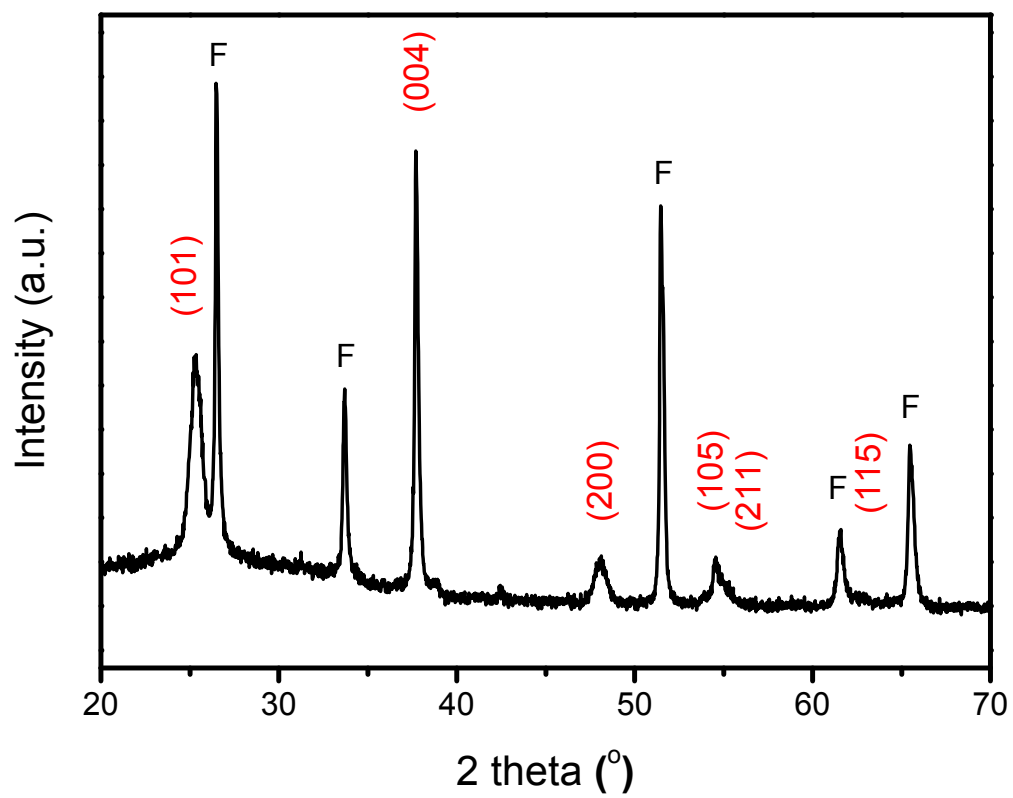
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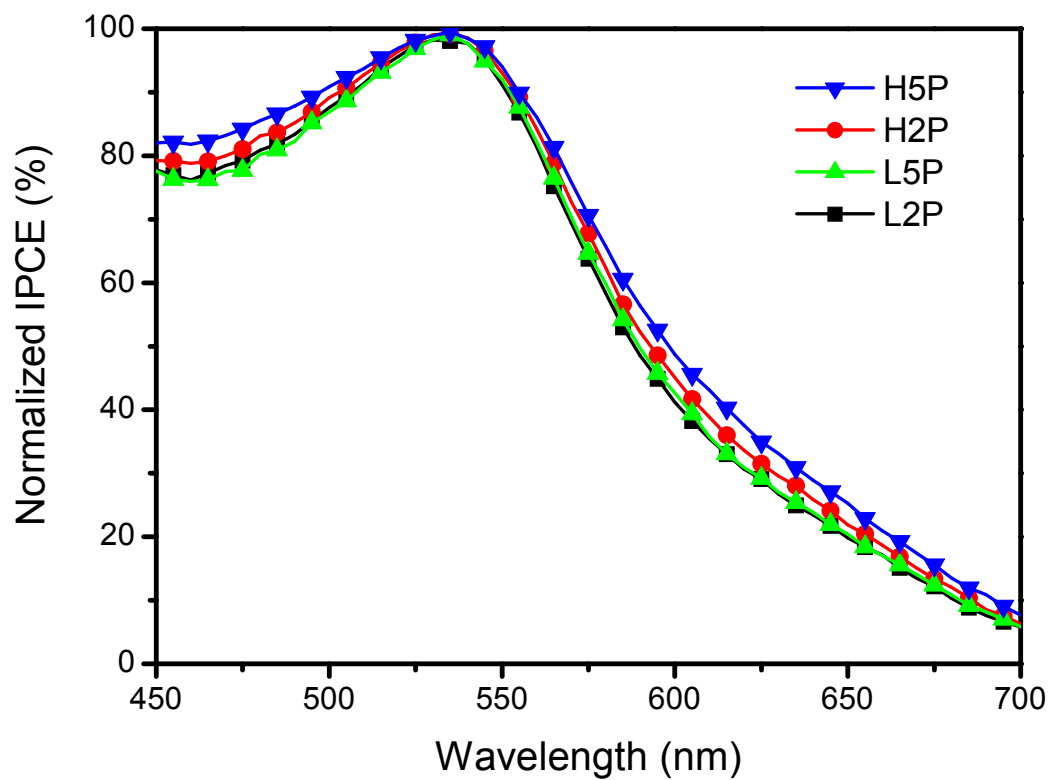
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**Fig. S1.** XRD pattern of TiO<sub>2</sub> films prepared with PLMA-POEM copolymer.



**Fig. S2.** Normalized IPCE curves of ssDSSCs fabricated with TiO<sub>2</sub> films and solid PIL at 100 mW/cm<sup>2</sup>,



**Fig. S3.** J-V curves of ssDSSC fabricated with 7- $\mu\text{m}$ -thick  $\text{TiO}_2$  films using the layer-by-layer H5P and the commercial Dyesol paste at  $100 \text{ mW/cm}^2$ .

