

## **Supplementary Materials**

### Preparation of Oleyl Phosphate-modified TiO<sub>2</sub>/Polymethylmethacrylate Hybrid Thin Films for Investigation of Their Optical Properties

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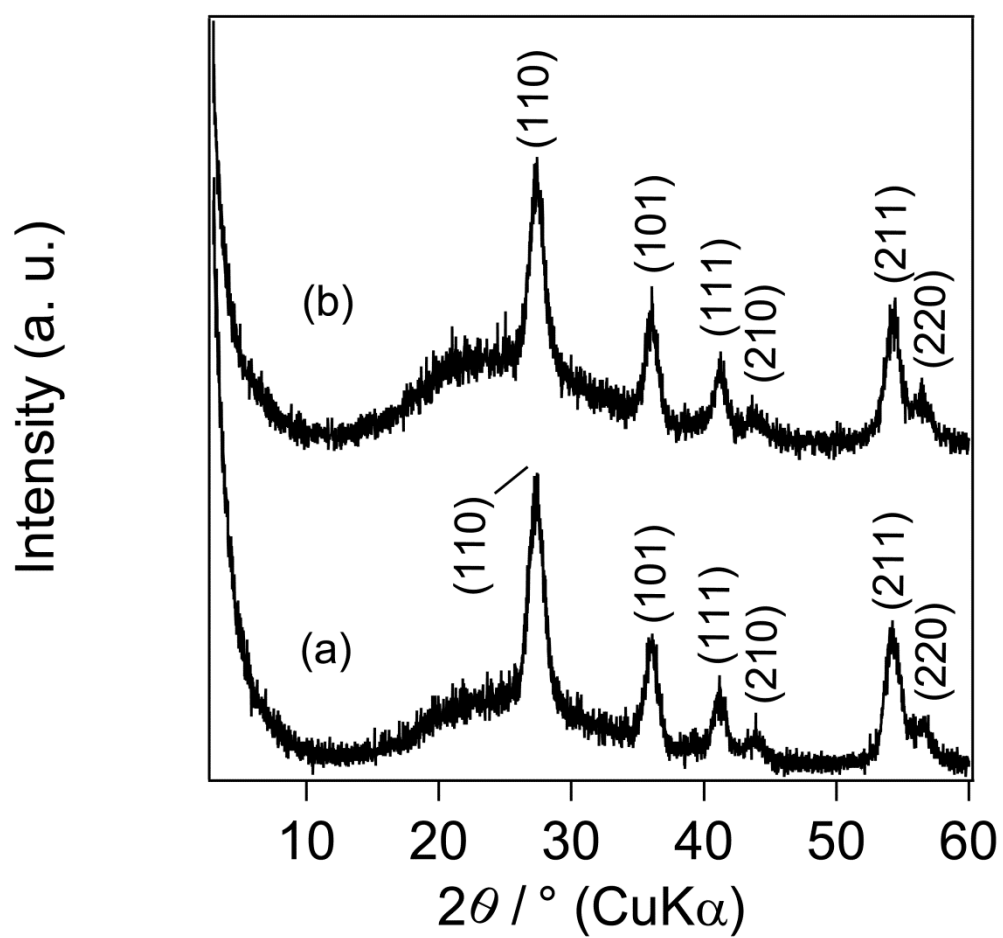


Figure S1 XRD patterns of (a) TiO<sub>2</sub> and (b) OP\_TiO<sub>2</sub>.

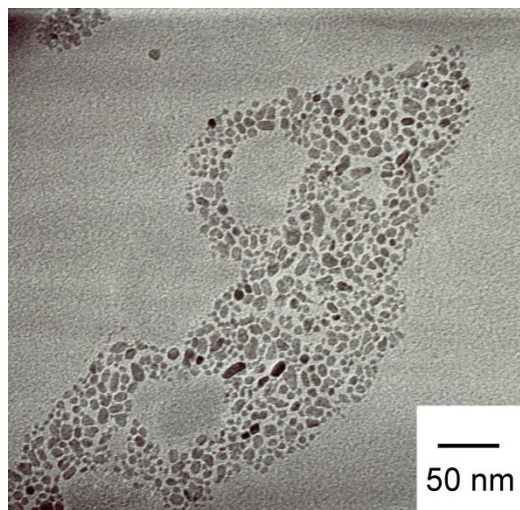


Figure S2 TEM image of OP\_TiO<sub>2</sub>.

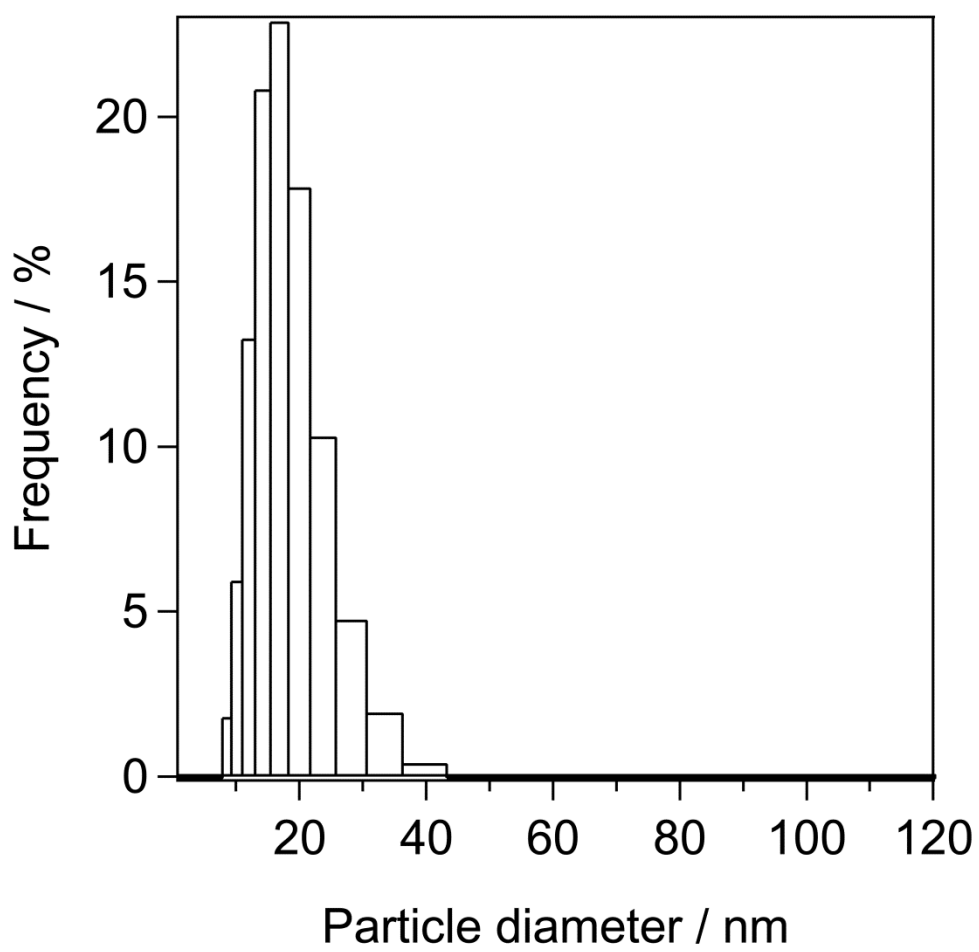


Figure S3 Particle size distribution of OP\_TiO<sub>2</sub> dispersed in toluene determined by dynamic light scattering.

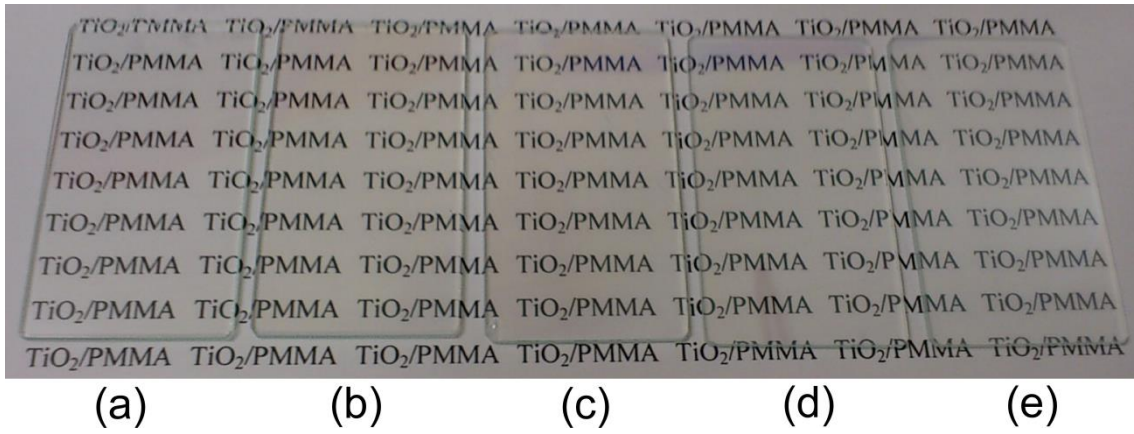


Figure S4 Photographs of OP\_TiO<sub>2</sub>/PMMA hybrid films for (a) 3, (b) 8, (c) 14, (d) 17, and (e) 20 vol% TiO<sub>2</sub>.