

## **Supplementary Information**

### **Effect of chlorinated Pd precursors and preparation methods on properties and activity of Pd/TiO<sub>2</sub> catalysts**

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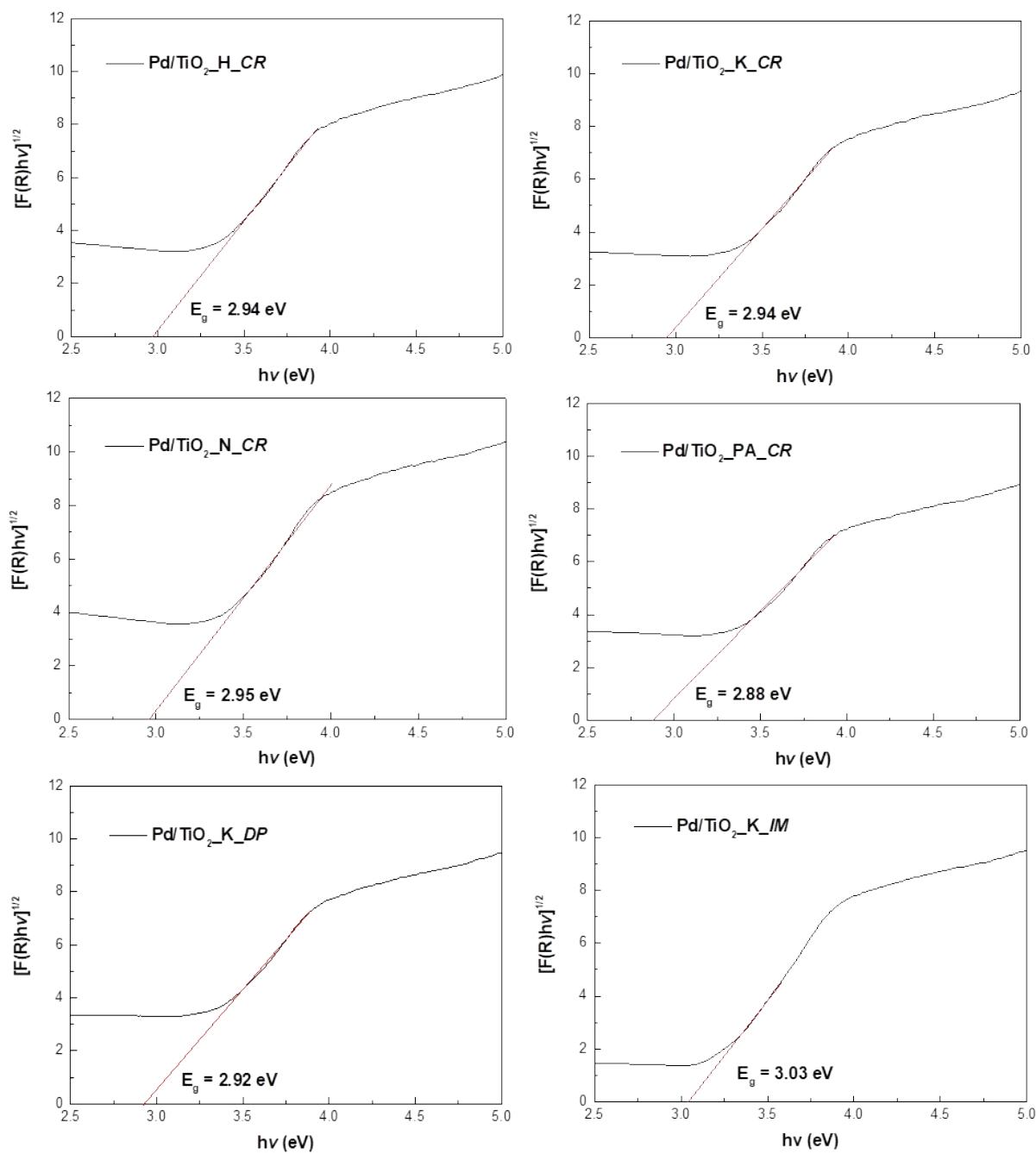
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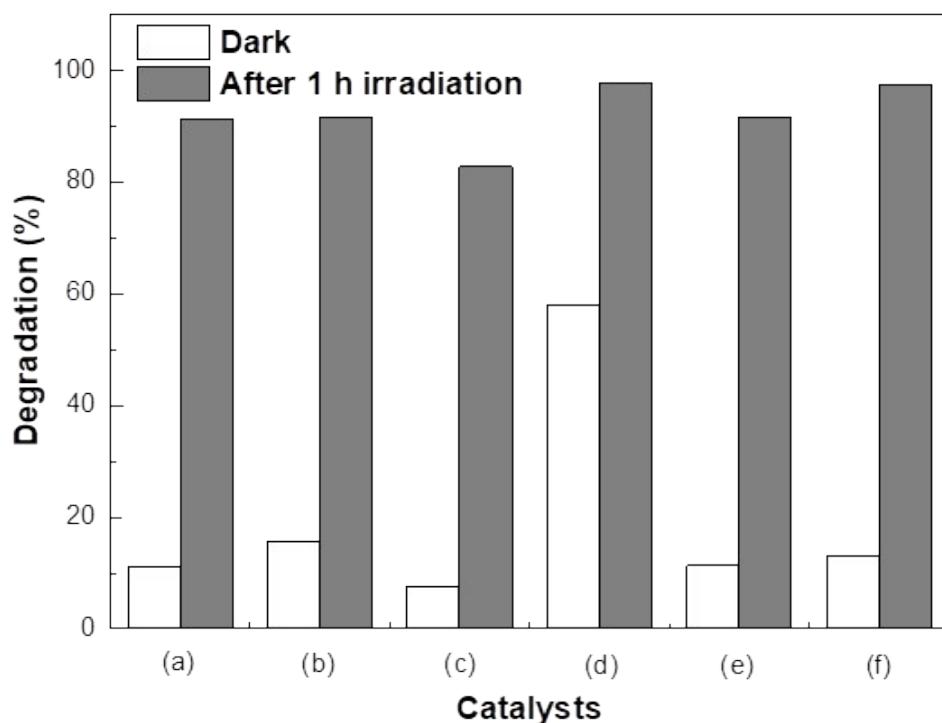
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**Fig. S1** Tauc plot for band gap calculation using Kumbelka-Munk method converted from diffuse reflectance spectra of the Pd/TiO<sub>2</sub> catalysts.



**Fig. S2** Photocatalytic activity of Pd/TiO<sub>2</sub> catalysts for photocatalytic degradation of 15 ppm MV in dark and under UV irradiation: (a) Pd/TiO<sub>2</sub>\_H\_CR, (b) Pd/TiO<sub>2</sub>\_K\_CR, (c) Pd/TiO<sub>2</sub>\_N\_CR, (d) Pd/TiO<sub>2</sub>\_PA\_CR, (e) Pd/TiO<sub>2</sub>\_K\_DP, and (f) Pd/TiO<sub>2</sub>\_K\_IM.