

### **Description of additional supplementary data files**

Supplementary Movie S1. The video of heated DPP-BOH-PVA film before and after turning off the UV lamp with the 254 nm excitation.

Supplementary Movie S2. The video of heated DPP-BOH-PVA-F film before and after turning off the UV lamp with the 254 nm excitation.

Supplementary Movie S3. The video of heated DPP-BOH-PVA-R film before and after turning off the UV lamp with the 254 nm excitation.