Supplementary Materials

Fully Printed Organic Phototransistor Array with High Photoresponse and Low Power

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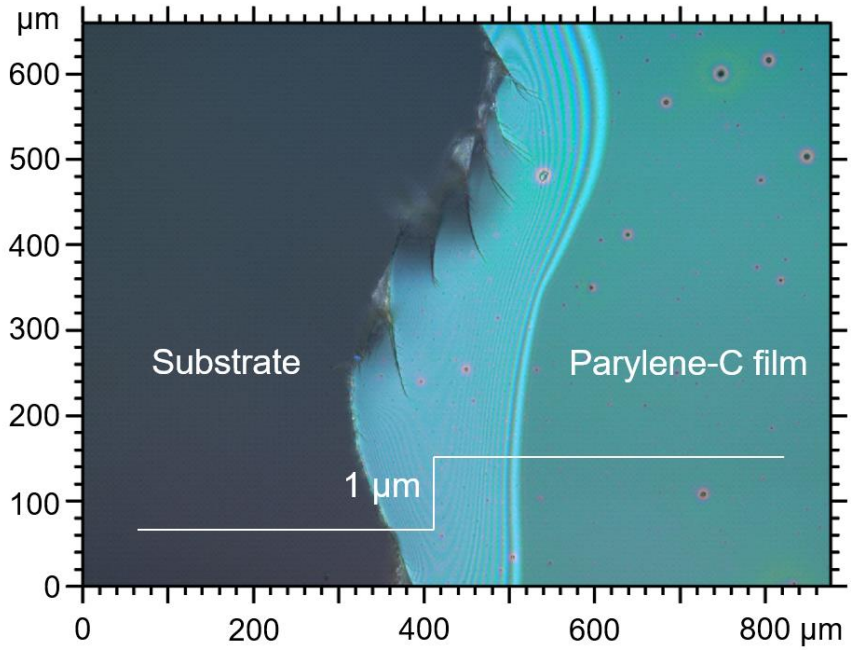
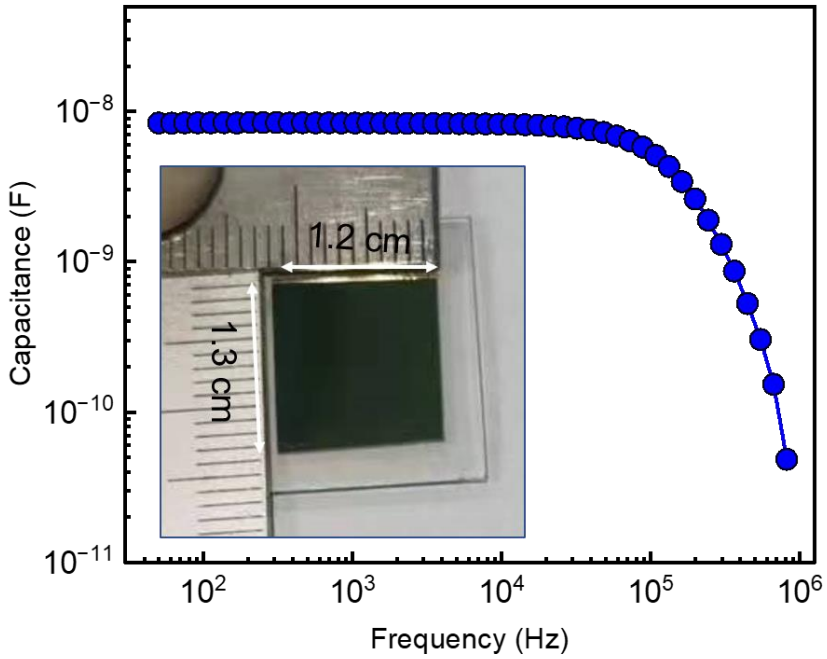
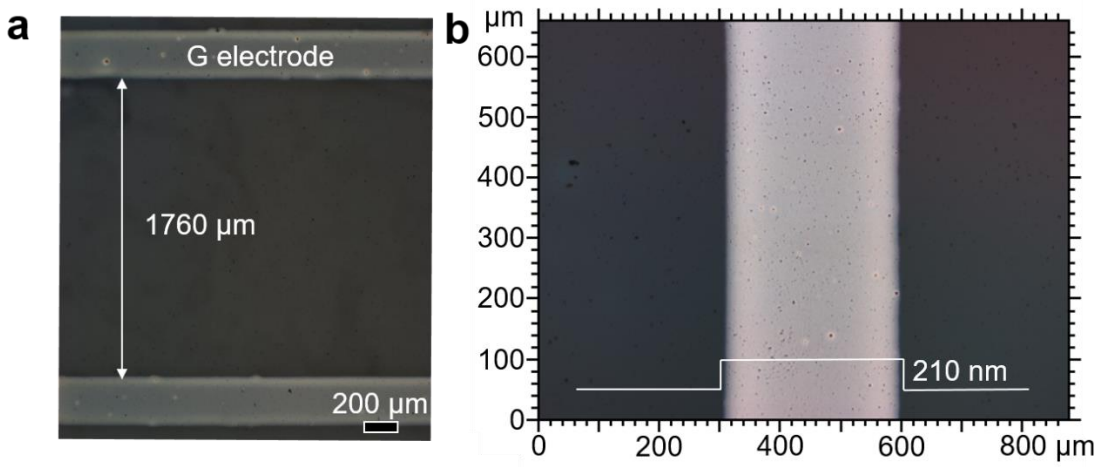


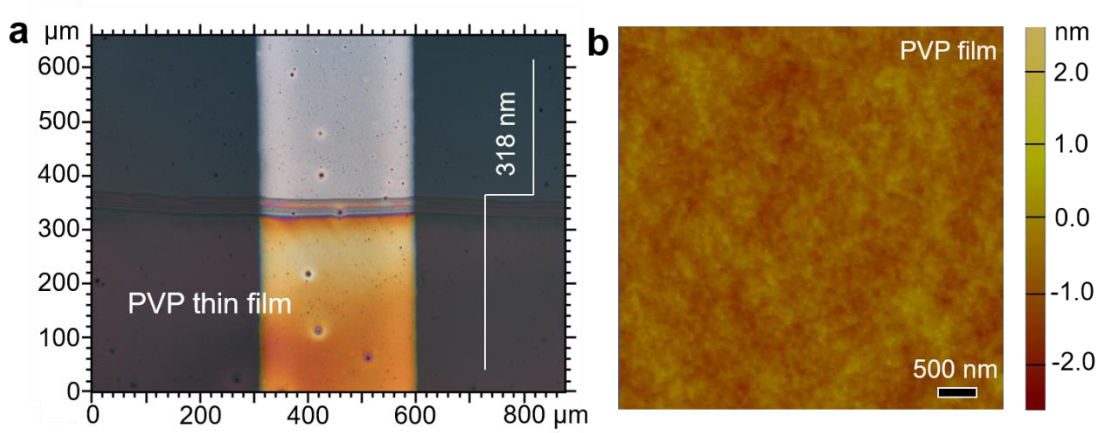
Supplementary Figure 1. 3D morphology of the Parylene-C layer with a thickness of 1.0 μm.



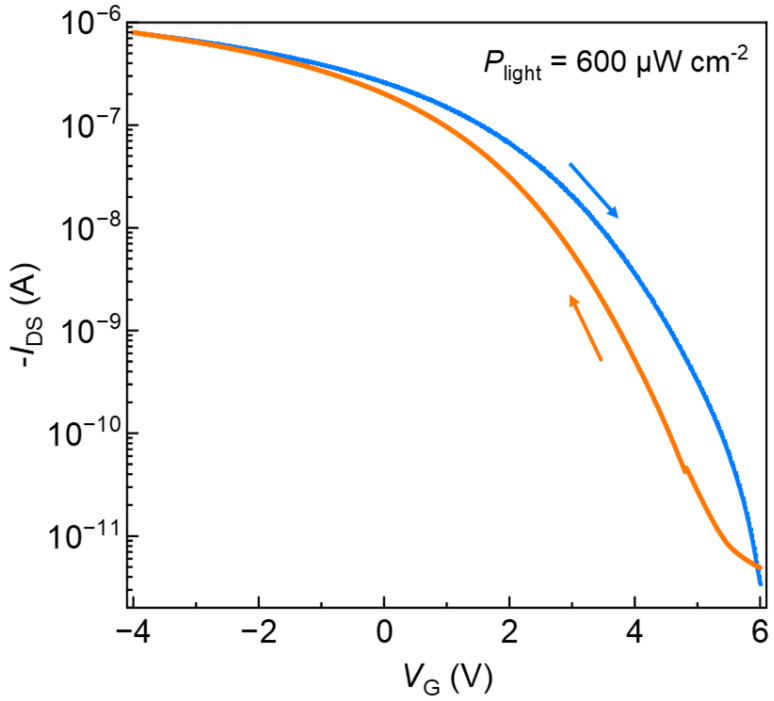
Supplementary Figure 2. Frequency dependence of capacitance for the blade-coated PVP dielectric. Inset: photograph of the capacitor.



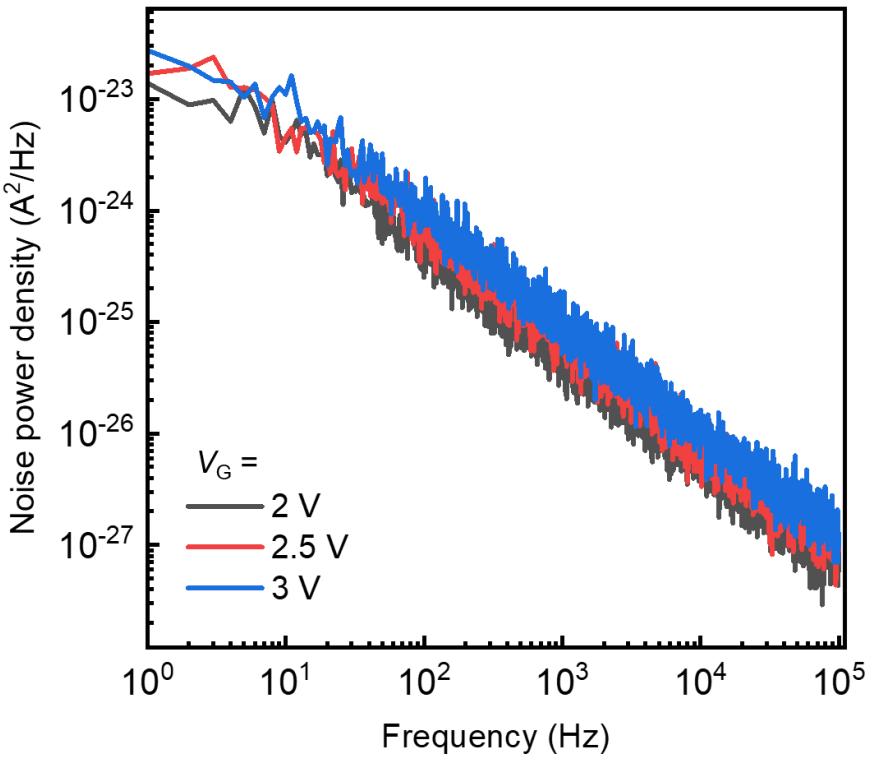
Supplementary Figure 3. (a) Optical image of the inkjet-printed gate electrodes with an interval of 1760 μm. (b) 3D image of the gate electrodes with a thickness of 210 nm.



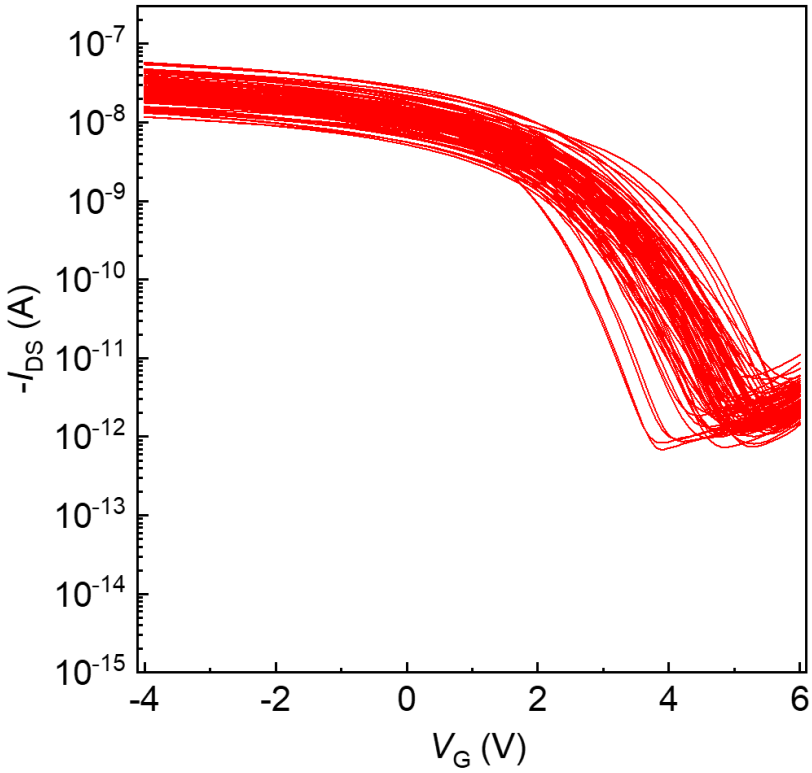
Supplementary Figure 4. (a) 3D morphology of the blade-coated PVP thin film. (b) Atomic force microscope image of PVP dielectric with a surface roughness of 0.27 nm.



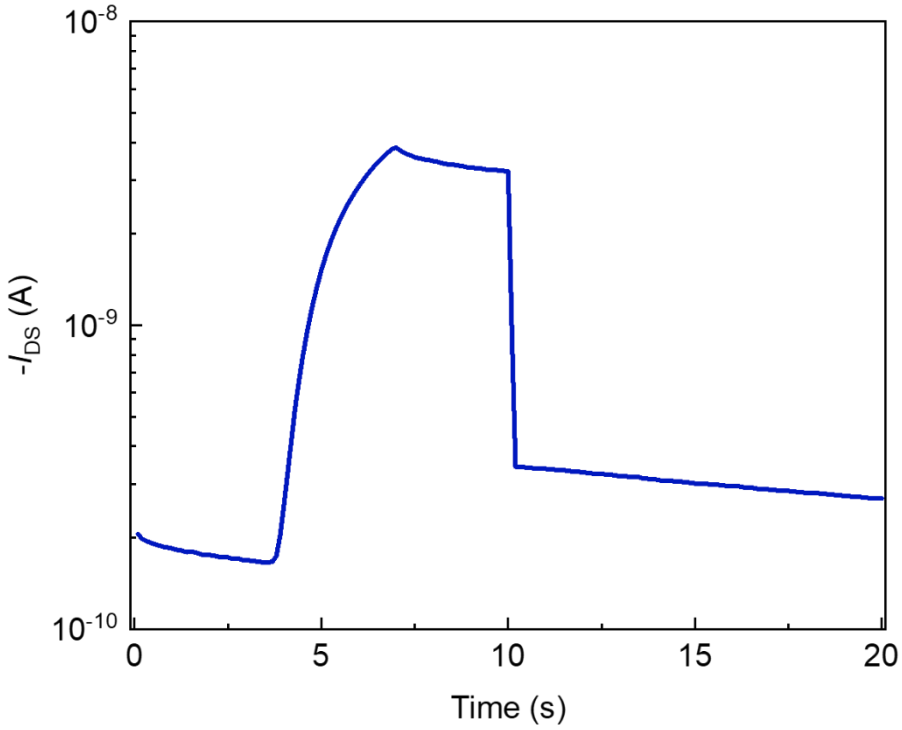
Supplementary Figure 5. Hysteresis of transfer curve of a fully printed OPT under white light illumination.



Supplementary Figure 6. Noise power density of the fully printed OPT at different gate voltage.



Supplementary Figure 7. Transfer characteristics of the OPTs under white light illumination (600 μW/cm^2).



Supplementary Figure 8. Transient photoresponse of the OPT.