

## Supplementary Information

### Thermochromic properties of acridine heterocyclic derivatives with donor-acceptor configuration

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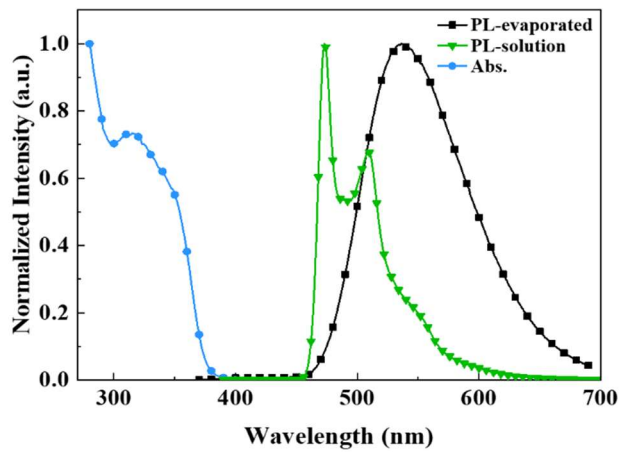
Fig. S3. Transient decay curves of DpAn-InAc and DpAn-BzAc films at room temperature.

Fig. S4. Characteristics of DpAn-InAc film dissolved in para-xylene. (a) PL spectra, (b) transmittance, and (c–e) AFM images (4×4 μm) in pristine and annealed states.

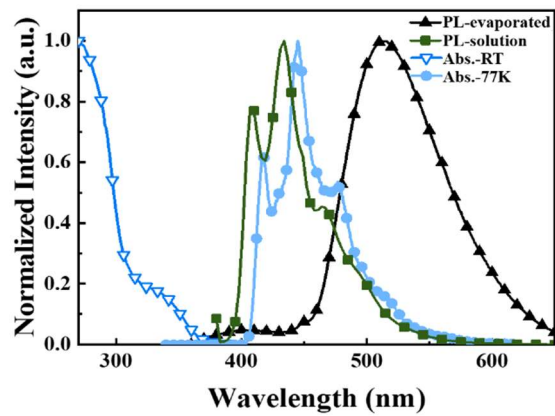
Fig. S5. Characteristics of DpAn-BzAc film. (a–c) PL spectra, (d–f) transmittance, and (g–i) AFM images (4×4 μm) in pristine and annealed states. The solvent is (a, d, g) toluene, (b, e, h) chloroform, and (c, f, i) acetonitrile.

Table S1. Parameters of DpAn-InAc and DpAn-BzAc.

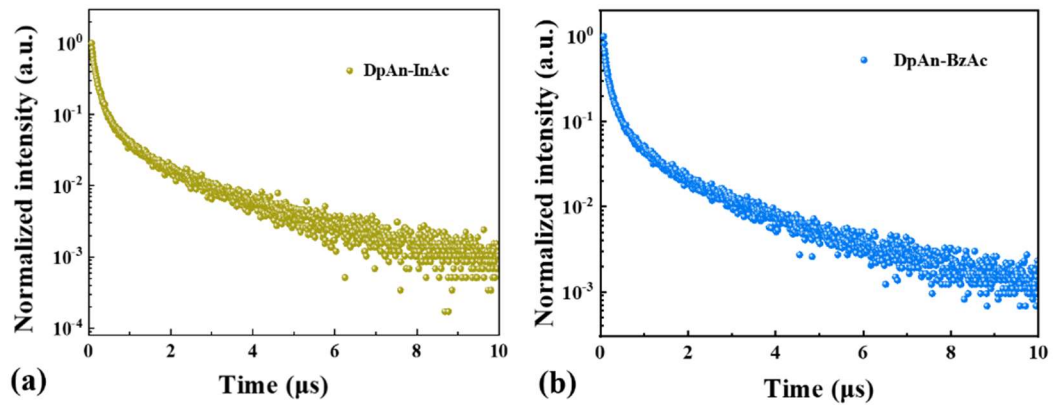
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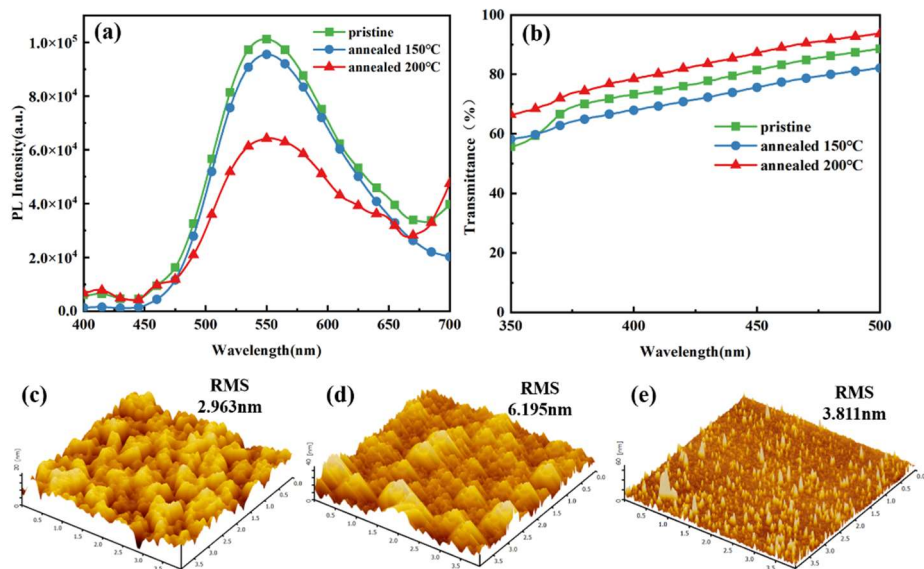
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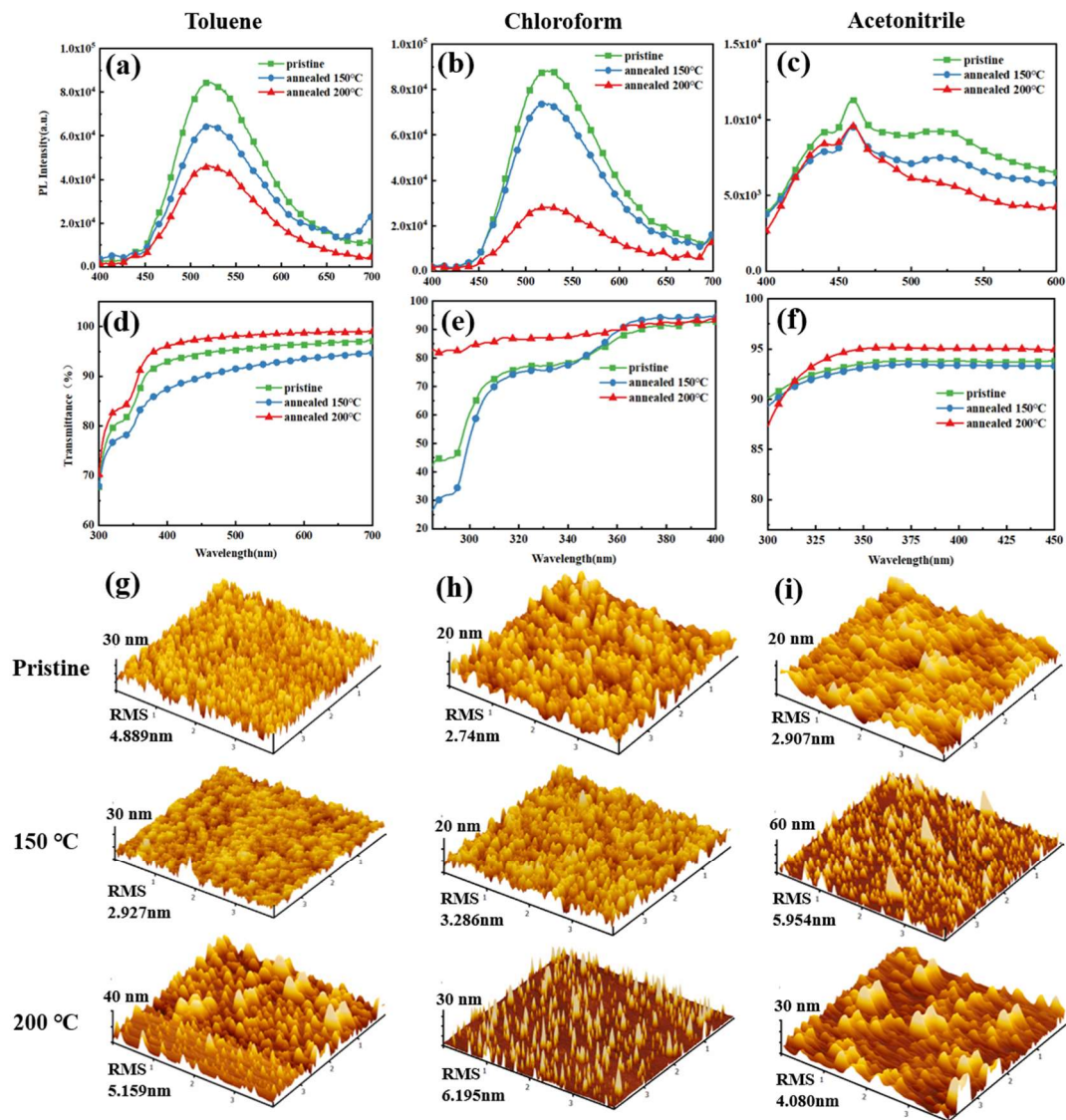
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**Table S1.** Parameters of DpAn-InAc and DpAn-BzAc

Materials	HOMO/LUMO (eV)	$E_g$ (eV)	$\Delta E_{st}$ (eV)	$S_1$ (eV)	$T_1$ (eV)	$T_g/T_d/T_m$ (°C)
DpAn-InAc	-4.72/-1.98	2.74	0.39	3.47	3.08	132/330/250
DpAn-BzAc	-5.04/-1.87	3.17	0.40	3.48	3.08	118/370/249