

Supporting information

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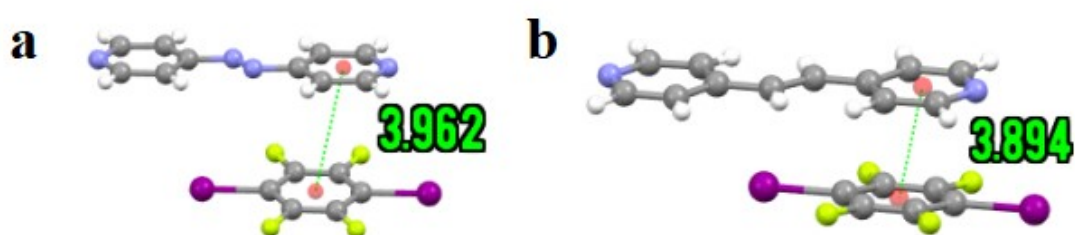


Figure S1. (a) π - π interactions between AZO and pdIFB. (b) π - π interactions between BPE and pdIFB.

Table S1. Summarized crystallographic parameters of AIC and BIC

| | a (Å) | b (Å) | c (Å) | α (°) | β (°) | γ (°) |
|------------|--------------|--------------|---------------|---------------|---------------|---------------|
| AIC | 4.660 | 9.128 | 22.550 | 94.046 | 94.548 | 92.390 |
| BIC | 4.733 | 9.065 | 22.598 | 94.530 | 93.220 | 92.320 |

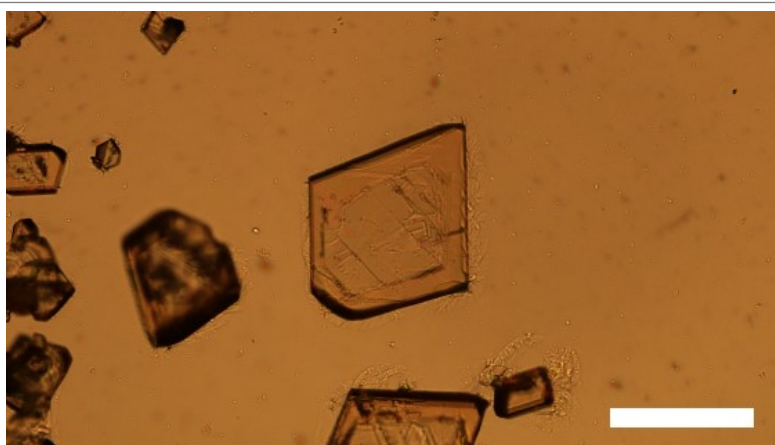


Figure S2. Heteroepitaxial growth optical image of pdAIC on pdBIC. scale bar, 100 μ m.

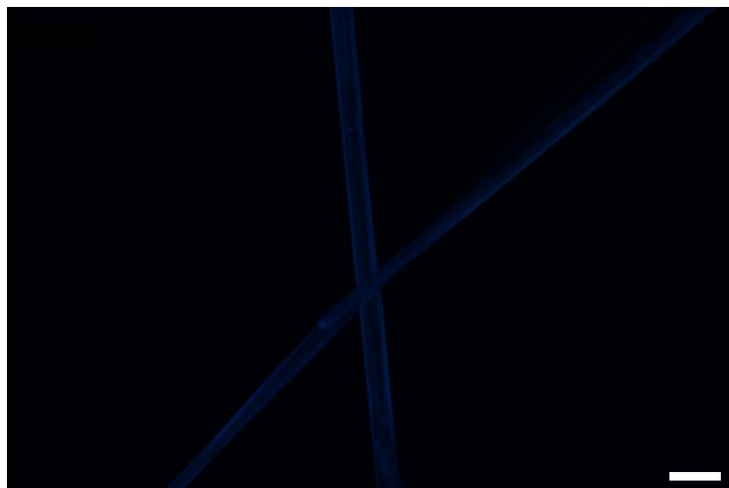


Figure S3. Fluorescence microscopy images of AZO_{10%}-BPE_{90%}-IFB alloy microribbons.

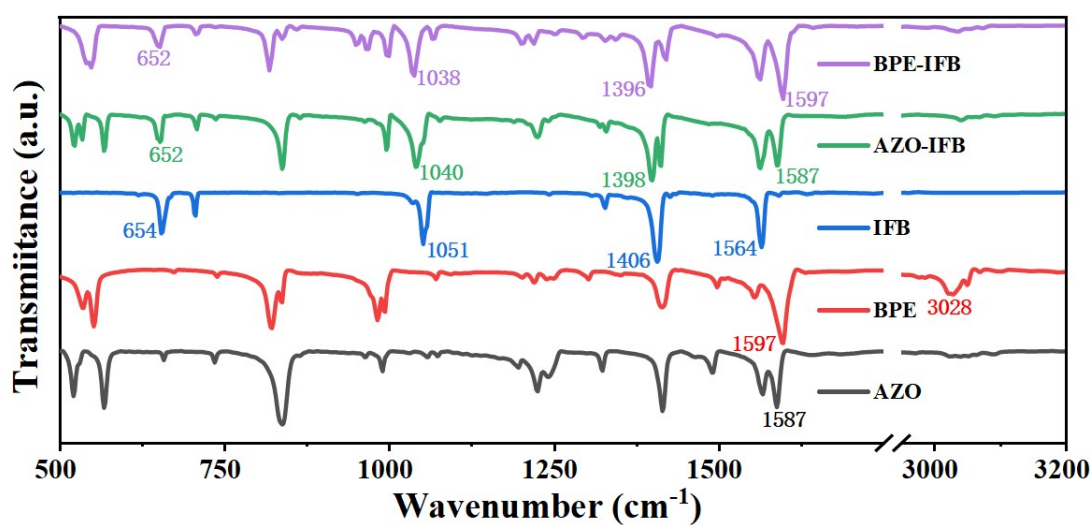


Figure S4. Infrared (IR) spectra of AZO, BPE and IFB powder, AZO-IFB cocrystals and BPE-IFB cocrystals.

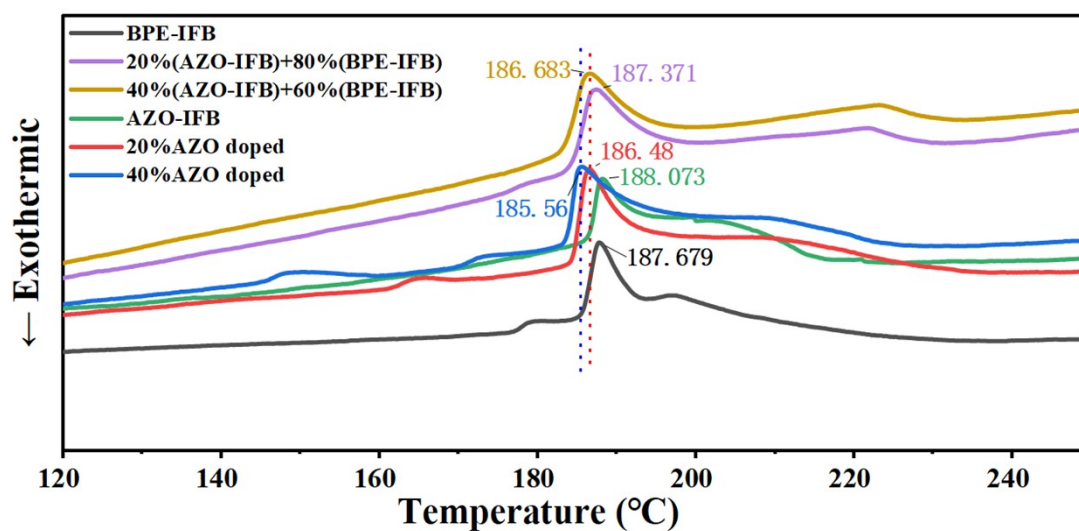


Figure S5. Differential Thermal Analysis (DTA) spectra of AZO-IFB cocrystals and BPE-IFB cocrystals.

Table S2. the dopant concentrations in the crystals at 1%, 3%, 5% doped ratio.

| Doping Ratio | 1% | 3% | 5% |
|--------------------|-------|------|------|
| ¹ H-NMR | 0.67% | 2.7% | 6.9% |

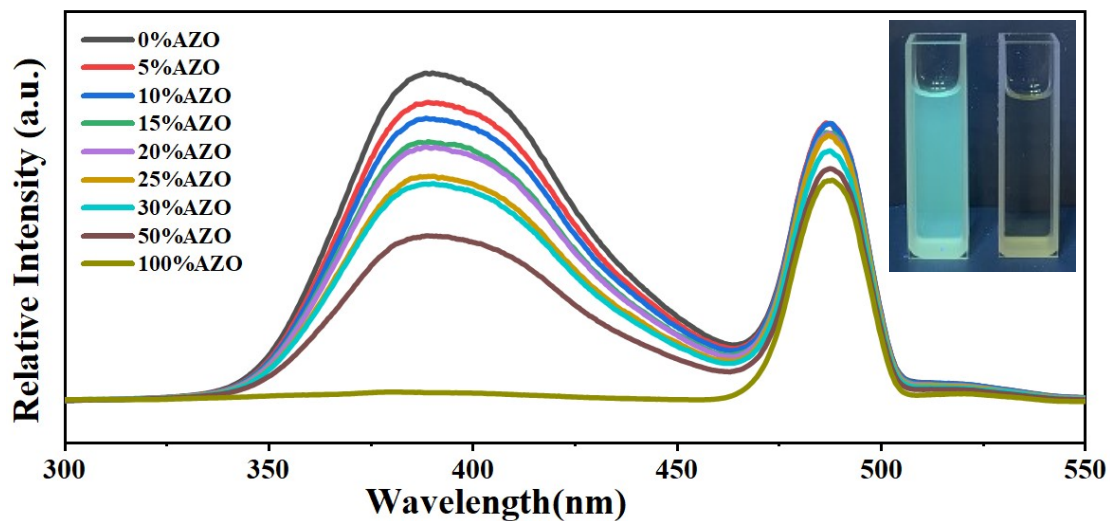


Figure S6. Photoluminescence (PL) spectra of AZO_x - BPE_{1-x} -IFB mixed solution ($x = 0, 5\%, 10\%, 15\%, 20\%, 25\%, 30\%, 50\%, 100\%$) when excited by unfocused UV light. In the upper right corner, BPE-IFB solution with fluorescence is on the left and nonfluorescent AZO-IFB solution is on the right.