

# Electronic Supplementary Information

## Influence of Hydrodynamic Environment on Chain Rigidity, Liquid Crystallinity, Absorptivity, and Photoluminescence of Hydrogen-Bonding-Assisted Helical Poly(phenylacetylene)

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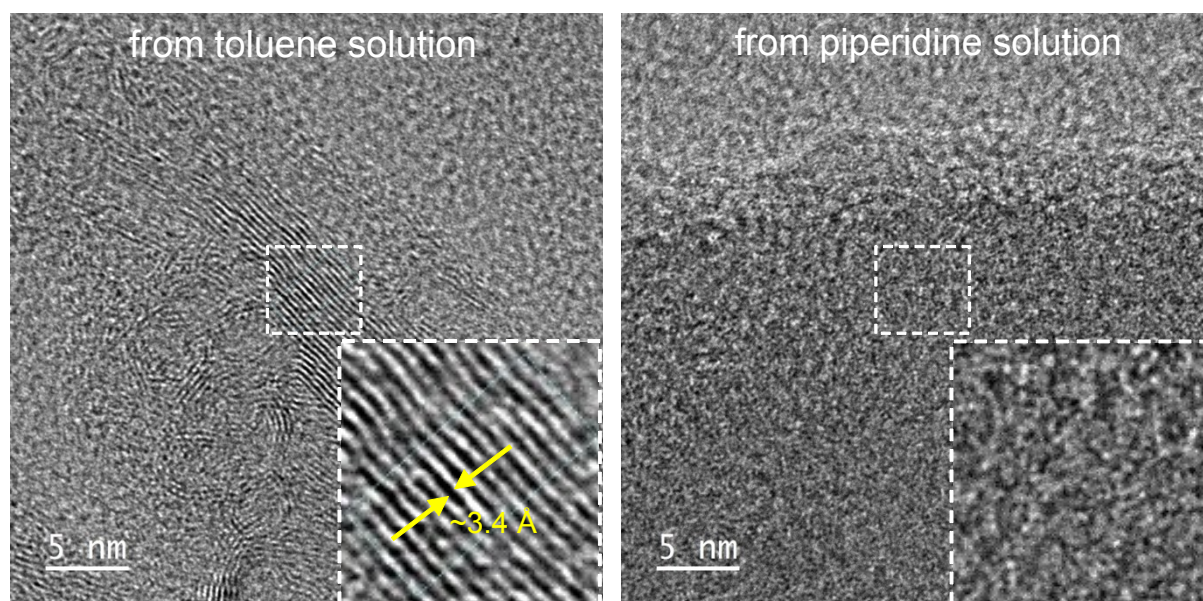
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**Table S1** Properties of the solvents used in this study

properties	solvents			
	piperidine	toluene	THF	DMSO
solubility parameter ( $\delta$ , MPa <sup>1/2</sup> ) <sup>a</sup>	17.8	18.2	19.4	26.4
hydrogen bonding acceptor strength ( $pK_{\text{HB}}$ ) <sup>b</sup>	2.35	-0.44	1.26	2.49

<sup>a</sup>Defined by the Hildebrand solubility parameter; <sup>b</sup>Reference values<sup>6</sup>

**Fig. S1** HR-TEM images of cast films from toluene and piperidine solution.



**Fig. S2** DSC thermograms of cast films from a) toluene and b) piperidine solution during heating. (heat flow rate  $\approx 10 \text{ min } ^\circ\text{C}^{-1}$ , under nitrogen gas)

