

Supporting Information

Tristable data-storage device of soluble polyimides based on novel asymmetrical diamines containing carbazole

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Supporting figures:

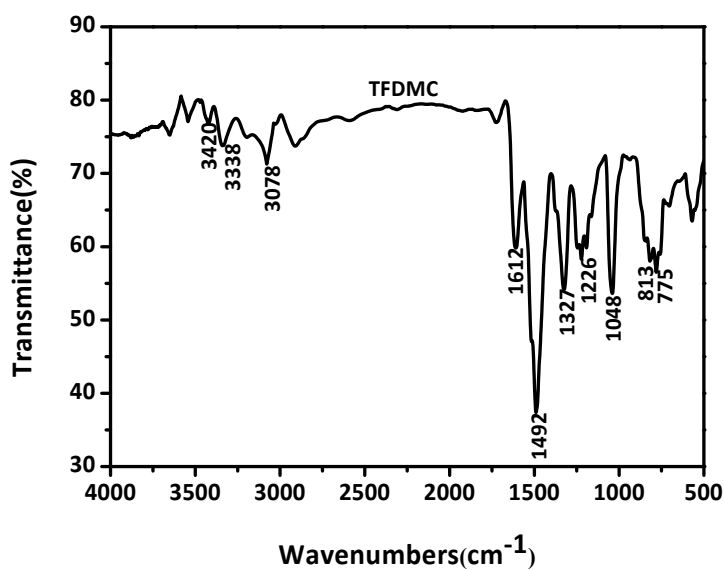


Figure S1. FT-IR spectra of TFDMC.

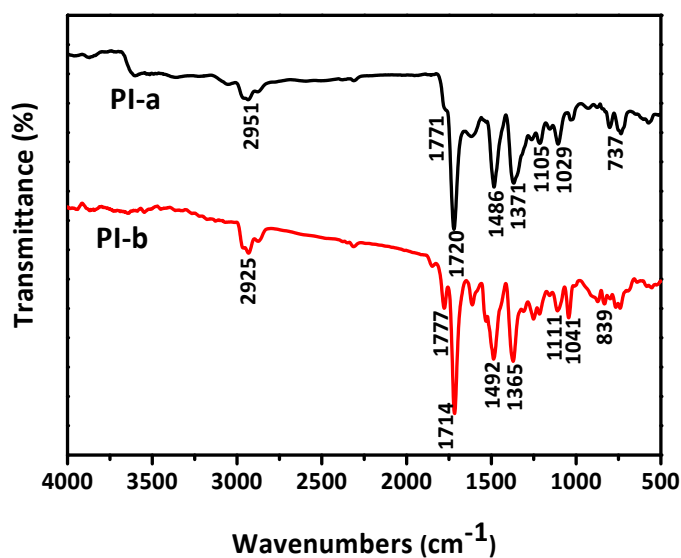


Figure S2. FT-IR spectra of PIs.

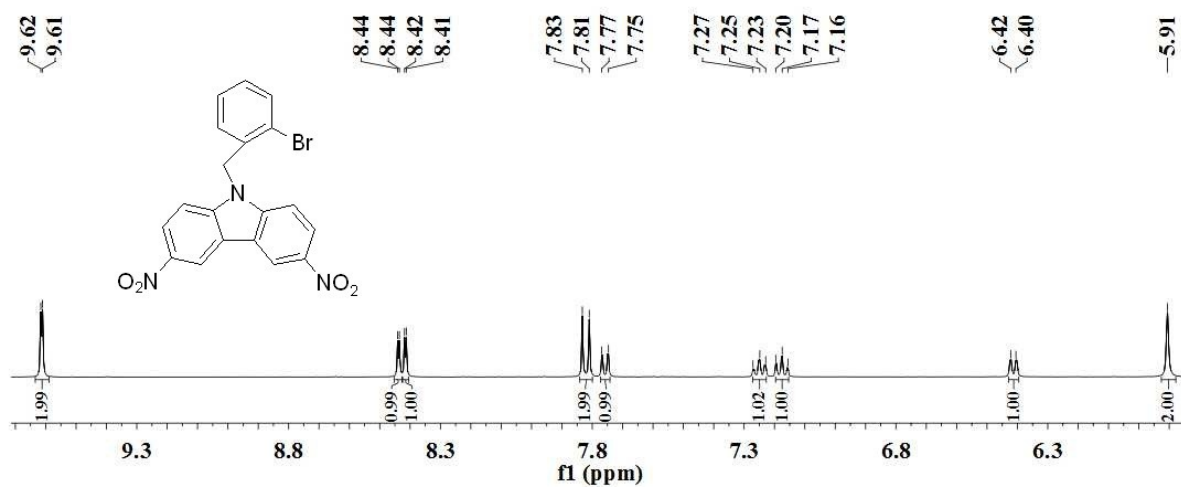


Figure S3. $^1\text{H NMR}$ spectrum of (2) in $\text{DMSO-}d_6$.

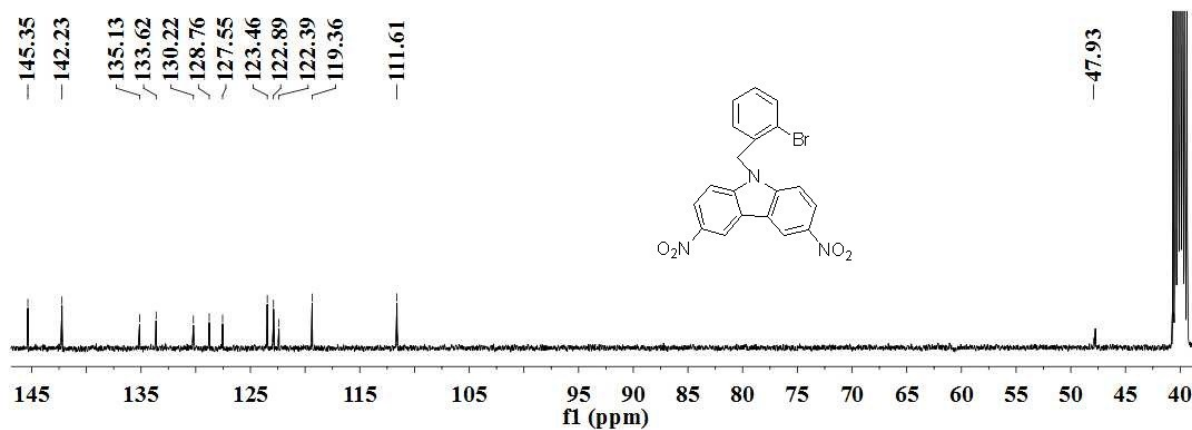
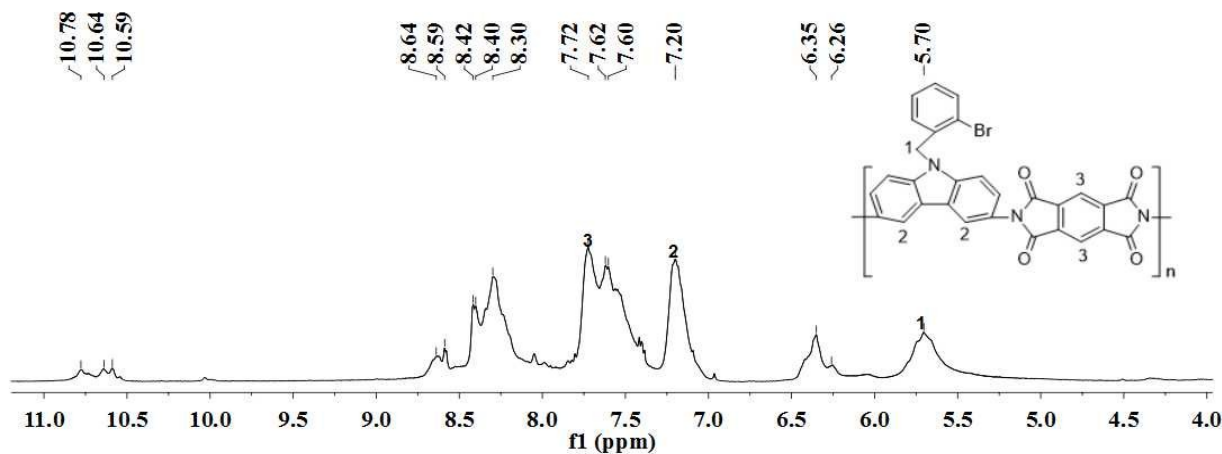
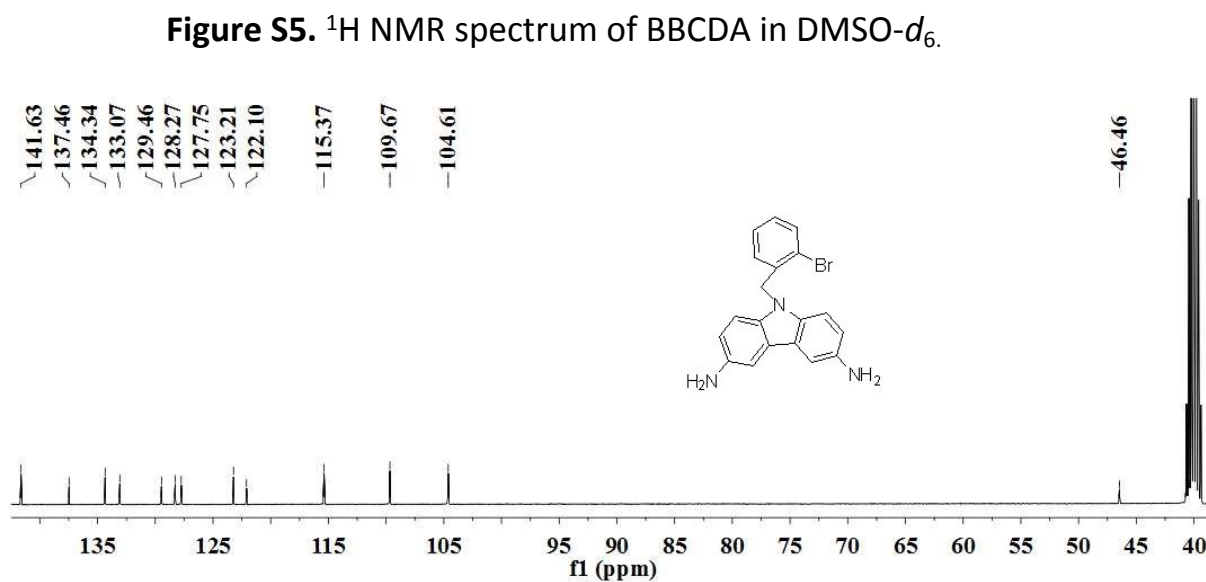
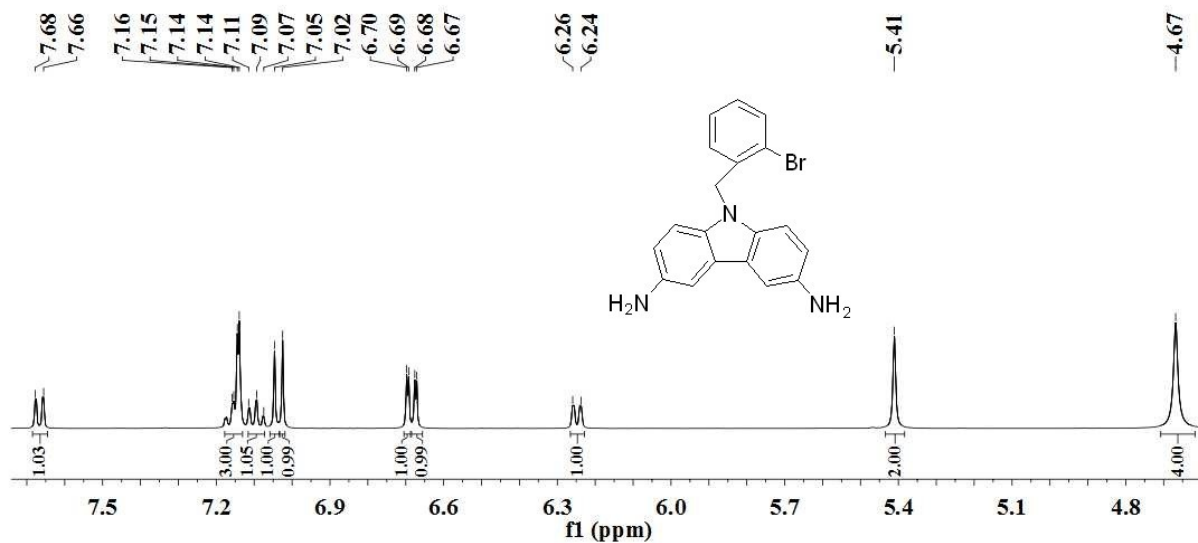


Figure S4. $^{13}\text{C NMR}$ spectrum of (2) in $\text{DMSO-}d_6$.



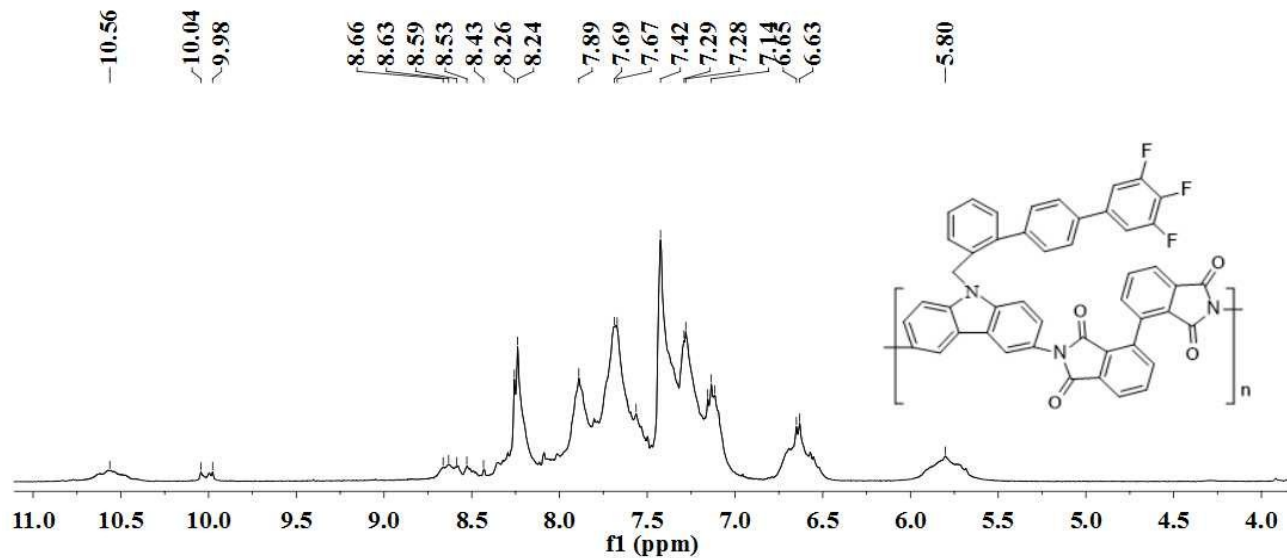


Figure S7. ^1H NMR spectra of PI-a and PI-b in $\text{DMSO-}d_6$.

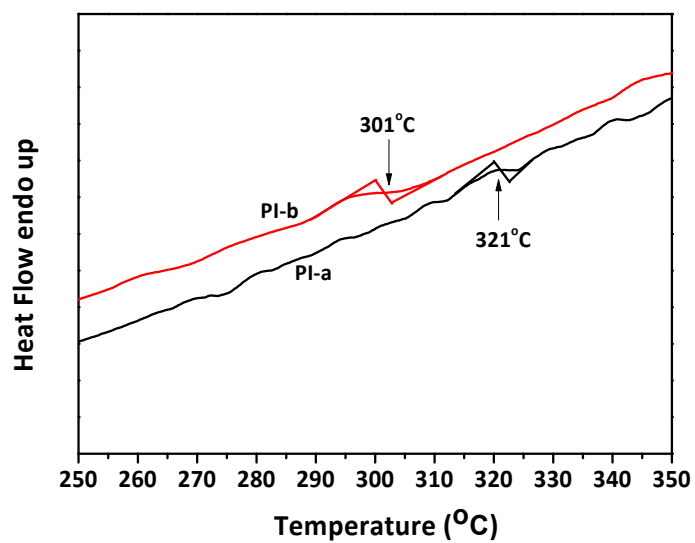


Figure S8. DSC curves of PIs.

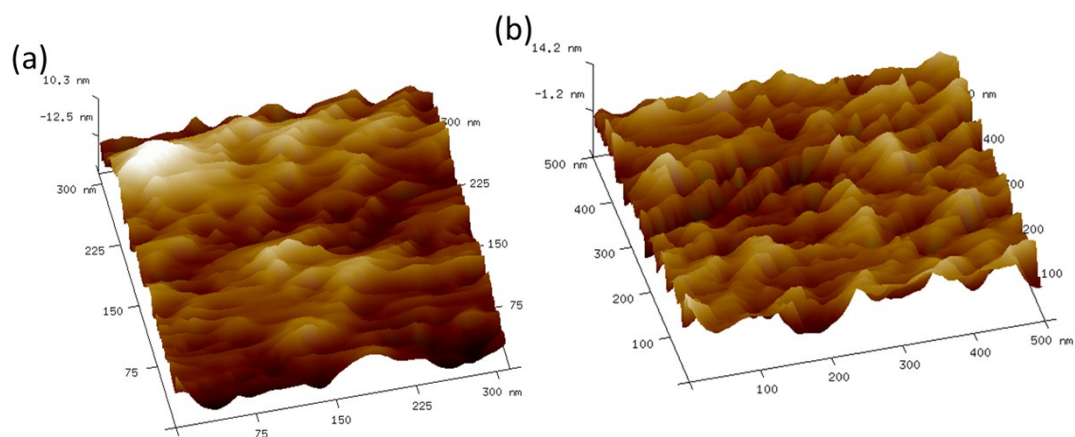


Figure S9. Atomic Force Microscope three-dimensional images (surface area of $0.5 \times 0.5 \mu\text{m}^2$) of PI-a and PI-b.