

Electronic supplementary information

Efficient Blue and White Polymer Light Emitting Diodes Based on a Well Charge Balanced, Core Modified Polyfluorene Derivative

Dipjyoti Das,^a Peddaboodi Gopikrishna,^a Ashish Singh,^a Anamika Dey^a and Parameswar Krishnan Iyer^{a,b*}

^a Centre for Nanotechnology, Indian Institute of Technology Guwahati, Guwahati781039, Assam, India

^b Department of Chemistry, Indian Institute of Technology Guwahati, Guwahati-781039, Assam, India.

E-mail: pki@iitg.ernet.in; Fax: +0091 361 258 2349

Content	Page
Fig. S1. AFM images	S2
Fig. S2. Brightness vs. Current Density (B-J) (a) and Current Density vs. Voltage (J-V) (b) curves of the single layer Blue PLEDs.	S2
Fig. S3. Brightness vs. Current Density (B-J) (a) and Current Density vs. Voltage (J-V) (b) curves of the multilayer Blue PLEDs.	S3
Fig. S4. Brightness vs. Current Density (B-J) (a) and Current Density vs. Voltage (J-V) (b) curves of the fabricated WPLEDs.	S3
Fig. S5. EL spectra of device W2 at different applied voltage.	S4

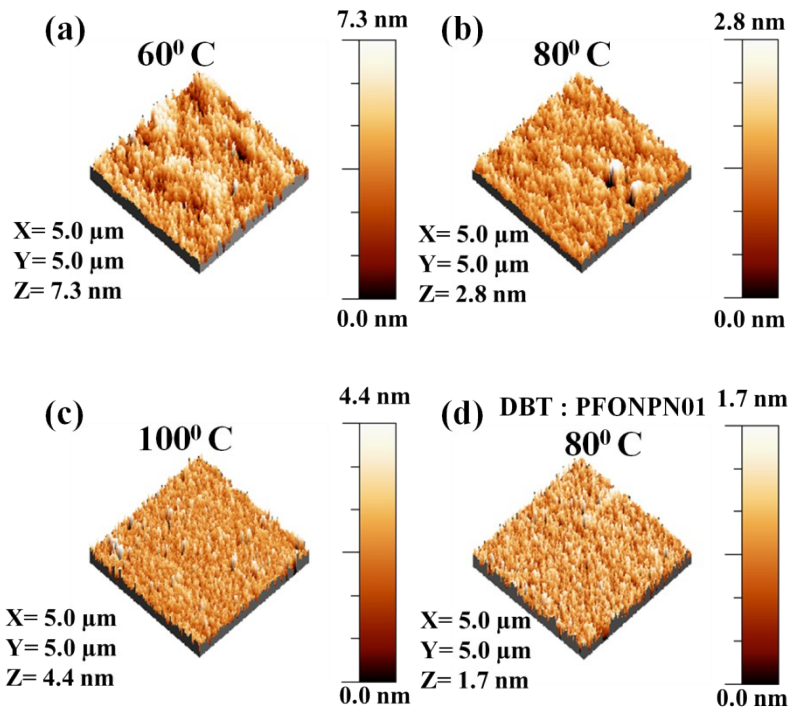


Fig. S1 AFM images of the PFONPN01 thin films heated at various temperatures, (a) 60 °C, (b) 80 °C, (c) 100 °C and (d) DBT doped PFONPN01 thin films heated at 80 °C.

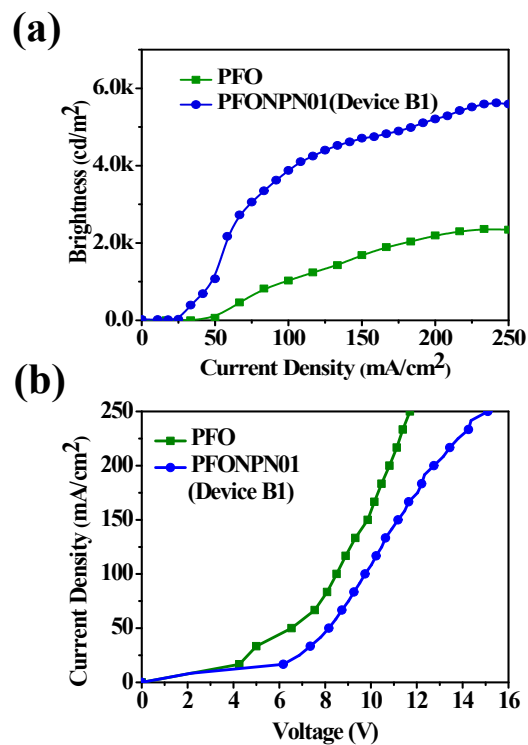


Fig. S2 Brightness vs. Current Density (B-J) (a) and Current Density vs. Voltage (J-V) (b) curves of the single layer Blue PLEDs.

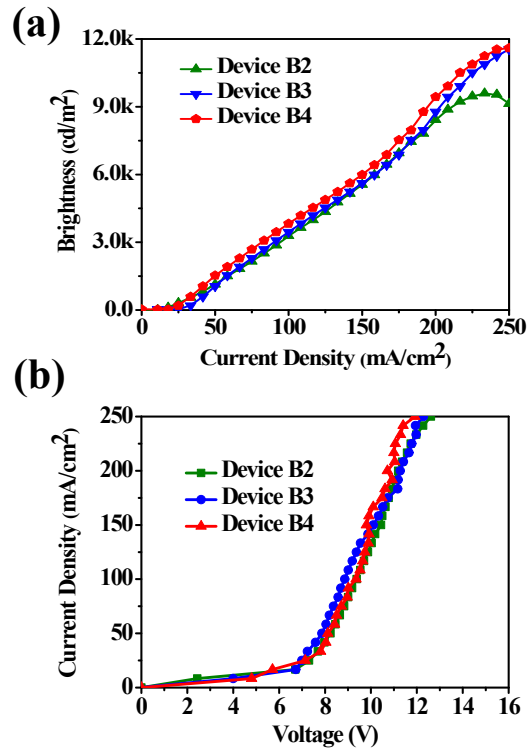


Fig.S3 Brightness vs. Current Density (B-J) (a) and Current Density vs. Voltage (J-V) (b) curves of the multilayer Blue PLEDs.

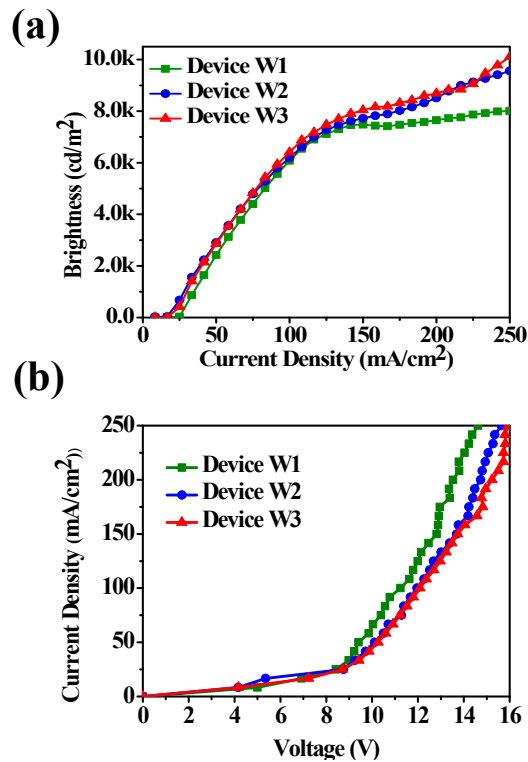


Fig. S4 Brightness vs. Current Density (B-J) (a) and Current Density vs. Voltage (J-V) (b) curves of the fabricated WPLEDs.

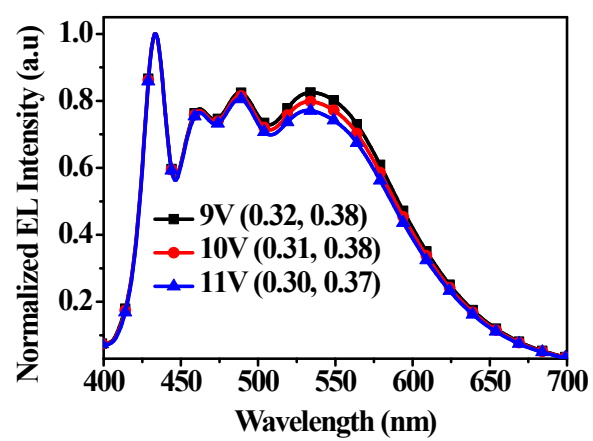


Fig. S5 EL spectra of device W2 at different applied voltage.