Electronic Supplementary Information

An Effect on Side Chain Position of D- π -A-type Conjugated Polymers with sp2-Hybridized Orbital for Organic Photovoltaics

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1. ¹H-NMR Spectrum of polymers

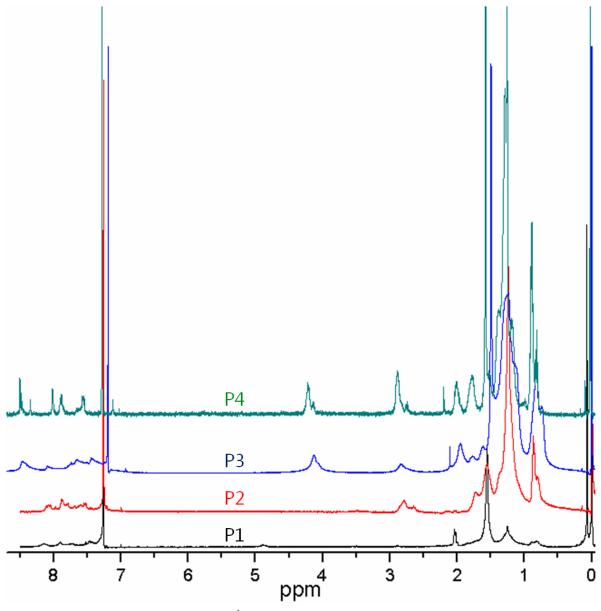


Figure S1. ¹H-NMR Spectrum of polymers

2. Cyclic voltammograms of thin films of polymers

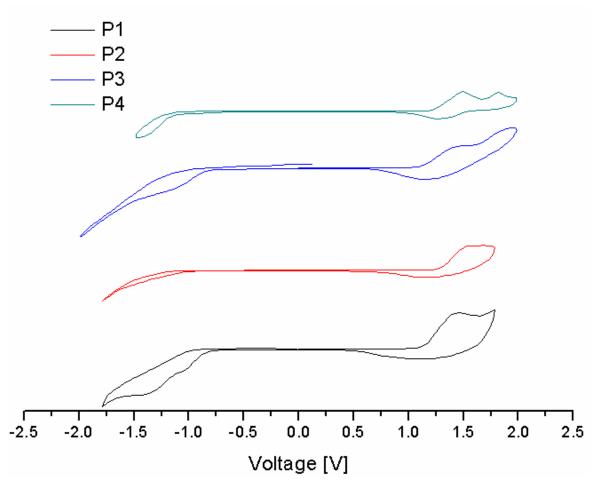


Figure S 2. Cyclic voltammograms of thin films of polymers

3. A comparison of polymer energy level used by Gaussian Calculations

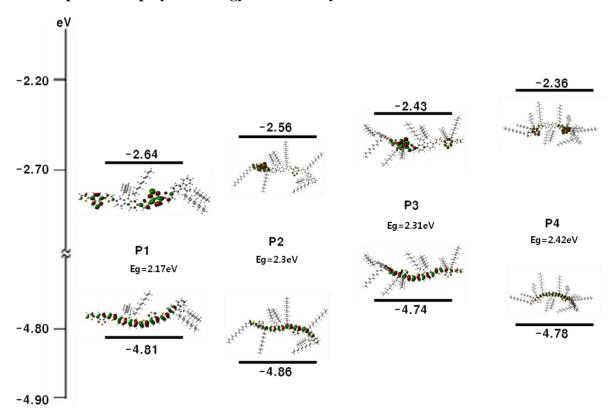


Figure S3. A comparison of polymer energy level used by Gaussian Calculations

4. Devices Fabrication and Characterization of polymers

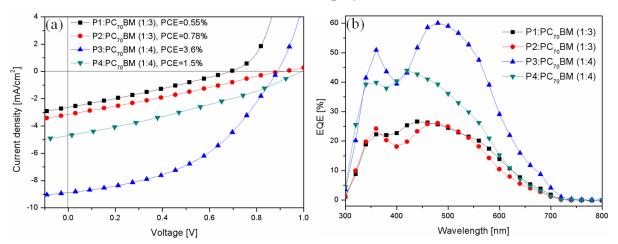


Figure S 4. Devices Fabrication and Characterization of polymers