Electronic Supplementary Material (ESI) for Journal of Materials Chemistry
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Novel ladder-type heteroheptacene based copolymers for bulk heterojunction solar cells

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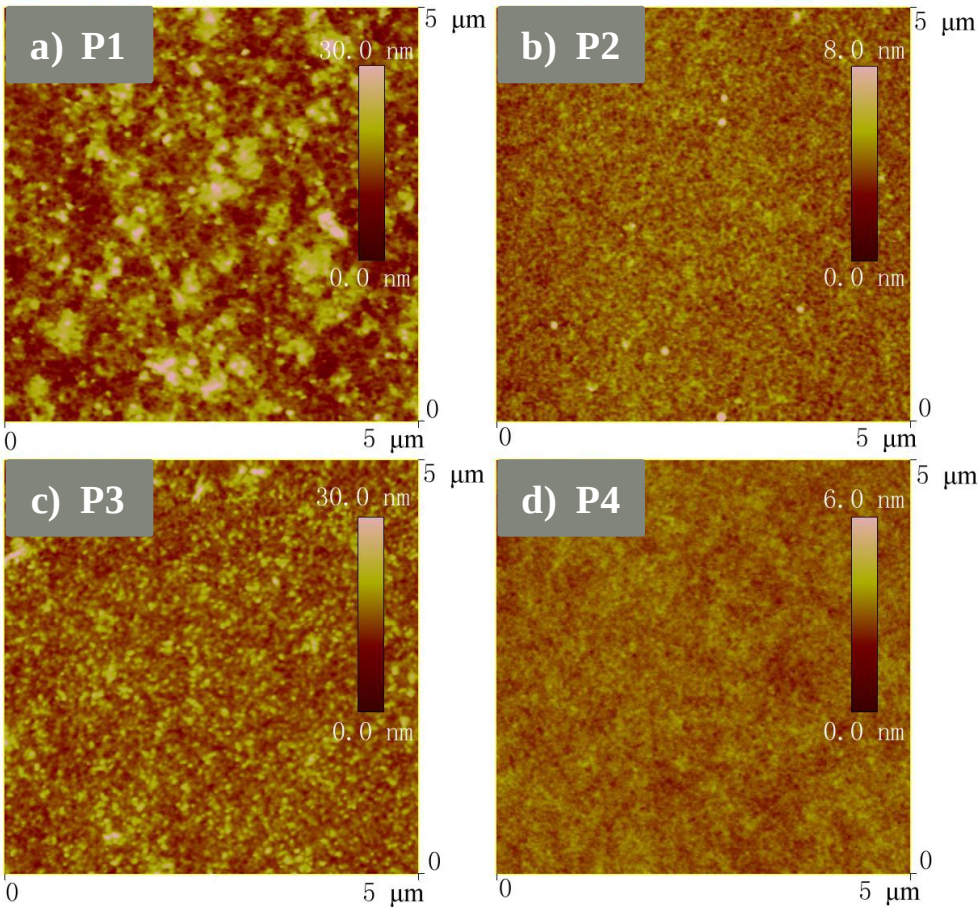

Fig. S1 AFM topography images (5μm×5μm) of films cast from chlorobenzene solutions with a) **P1** (roughness average=4.0 nm), b) **P2** (roughness average=0.56 nm), c) **P3** (roughness average =2.6 nm), d) **P4** (roughness average=0.31 nm).

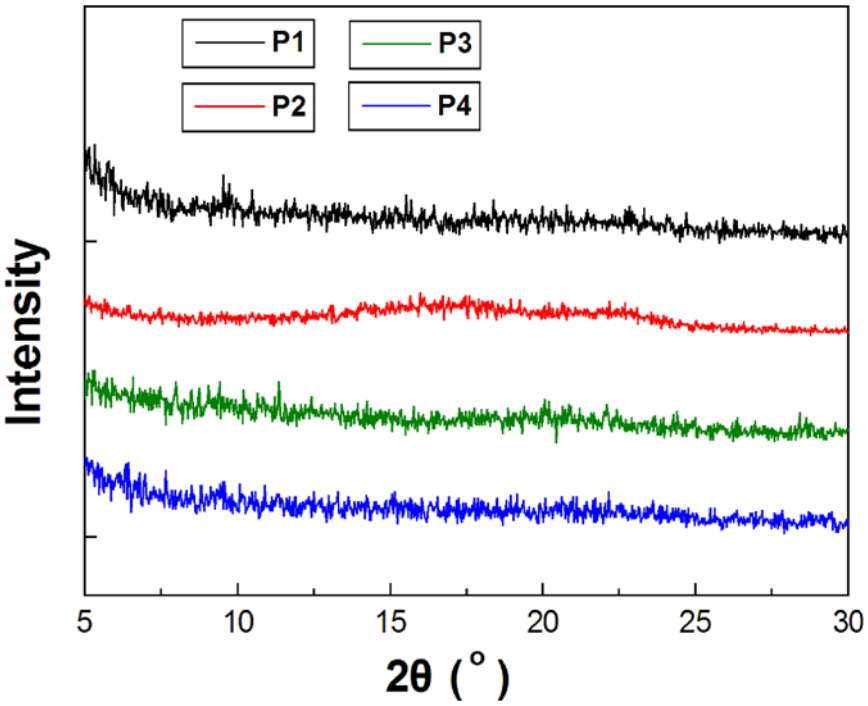

Fig. S2 X-ray diffraction pattern of films cast from chlorobenzene solutions (**P1**-**P4**).

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