Supporting information:

Structure, Dynamics and Power Conversion Efficiency Correlations in a New Low Bandgap Polymer:PCBM Solar Cell

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Figure S1:

Figure S1. (a) Fitting of the absorption spectrum of ES by using two Gaussians; the parameters for those two Gaussians are: peak1 (P1) = 1111.1 nm; width1 (W1) = 226.2 nm; amplitude1 (A1) = 2.68 mOD; P2 = 1445.6 nm; W2 = 261.12 nm; A2 = 2.69 mOD. (b) Fitting of the absorption spectrum of PTB1:PCBM at 515 ps by using two Gaussians for PTB1 cation (P1 = 1143 nm; W1 = 182.7; A1 = 1.68 mOD; P2 = 1929.6 nm; W2 = 487; A2 = 1.39 mOD) and two Gaussians for PCBM anion (P1 = 873.1 nm; W1 = -137.4 nm; A1 = 0.97 mOD; P2 = 1154.5 nm; W2 = 67.1 nm; A2 = 0.6 mOD).^{1,2}

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- (2) Kato, T.; Kodama, T.; Oyama, M.; Okazaki, S.; Shida, T.; Nakagawa, T.; Matsui, Y.; Suzuki, S.; Shiromaru, H.; Yamauchi, K.; Achiba, Y. *Chem. Phys. Lett.* **1991**, 186, 35.