



Supplementary Information

Development of Quantum Dots (QD) Based Color Converters for Multicolor Display

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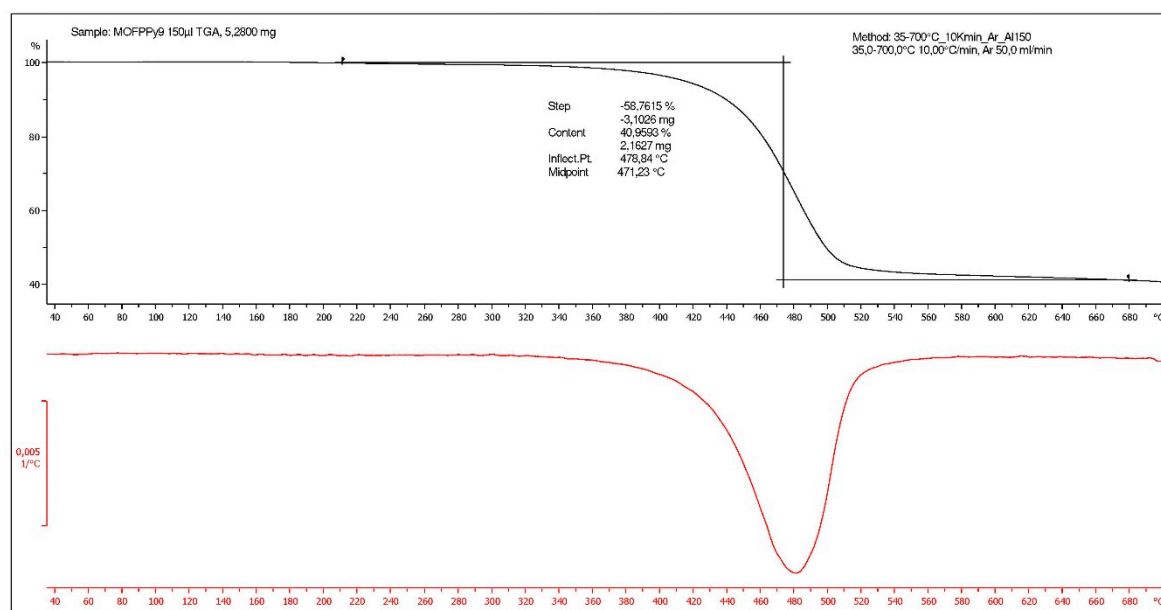


Figure S1. Thermogravimetric analysis of PPy9 performed under argon between 35 °C and 700 °C, showing its thermal stability up to 200 °C.

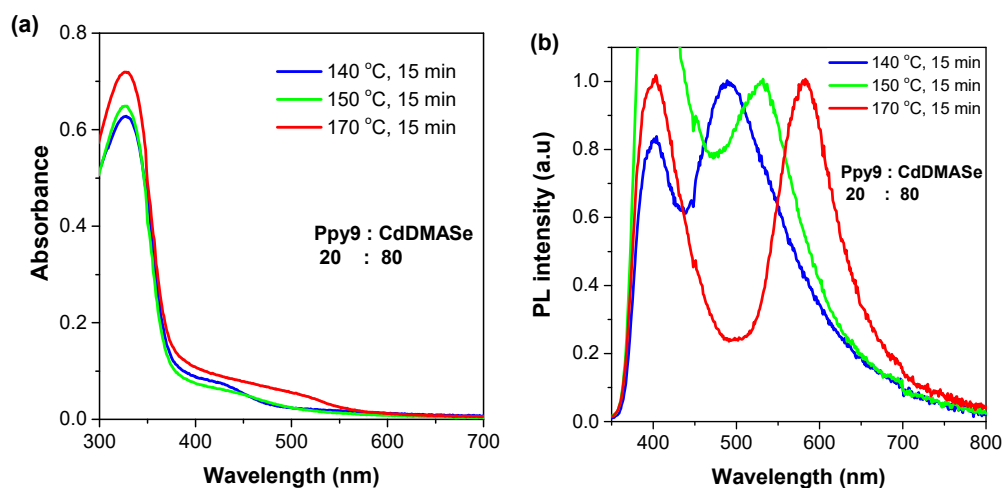


Figure S2. Absorption (a) and PL spectra (b) of blends of Ppy9 (20%) and CdDMASe (80%). The films were annealed at 140 °C, 150 °C and 170 °C for 15 min. PL spectra were obtained using excitation wavelength of 330 nm.

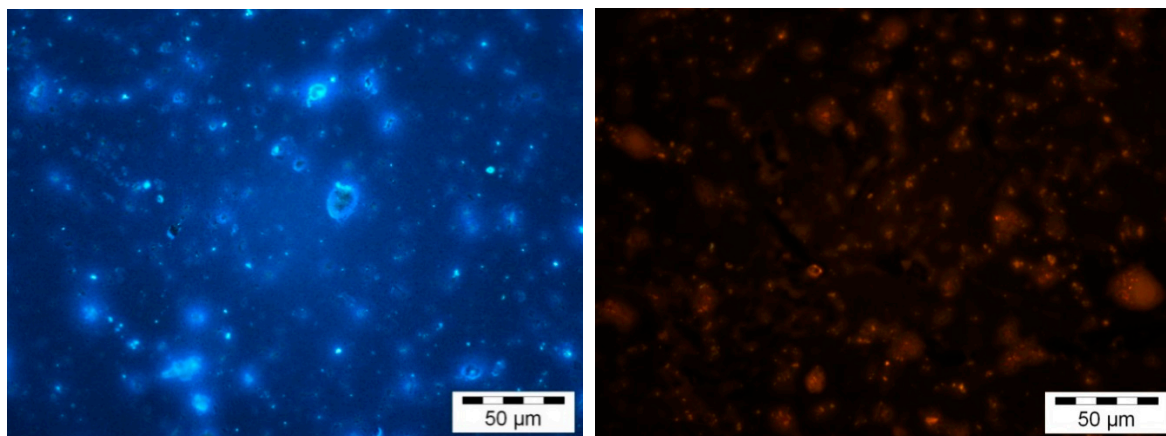


Figure S3. Fluorescence images of nanocomposite films of Ppy9 and CdDMASe before (left) and after baking at 170 °C for 15 min (right). These images were captured with a fluorescence microscope using an excitation wavelength of 355 nm.

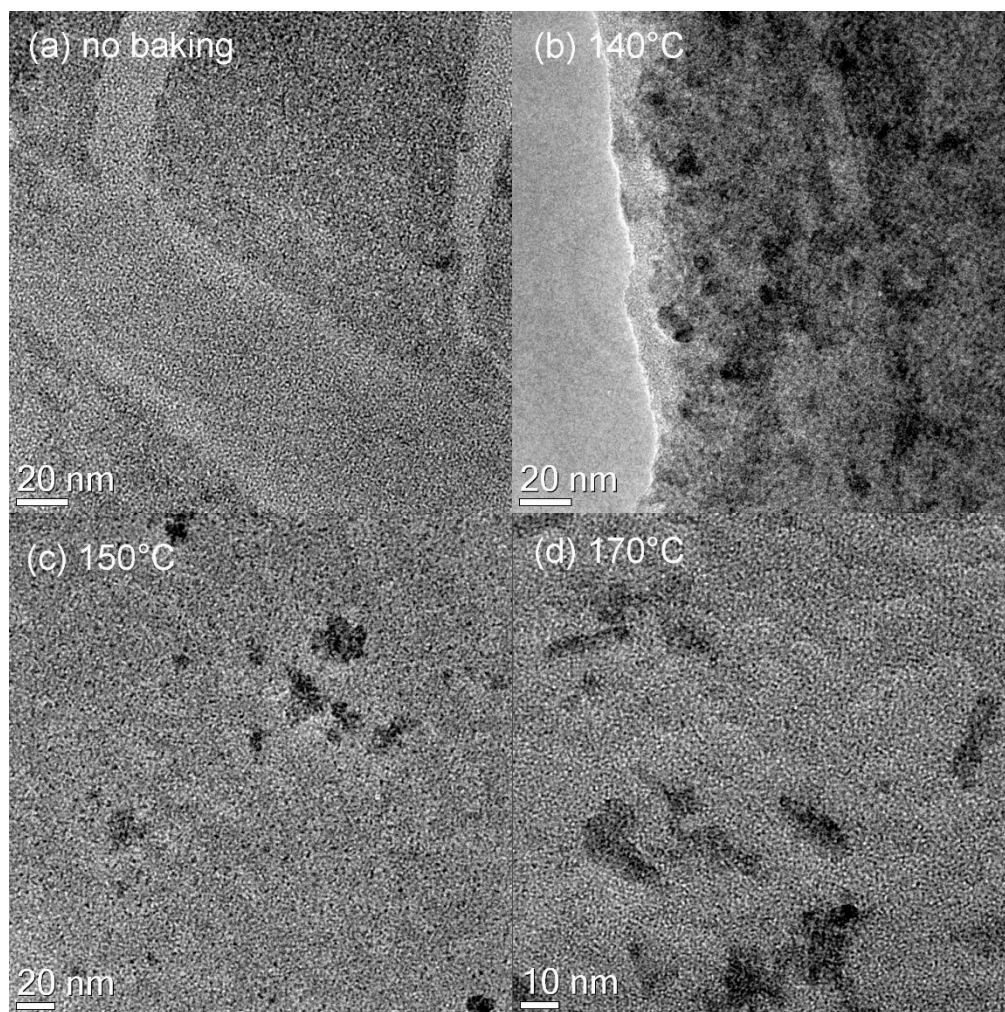
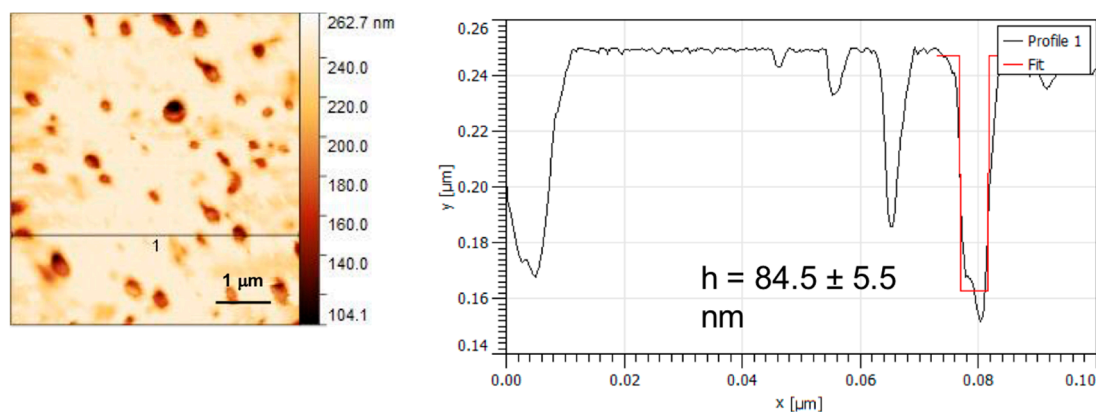
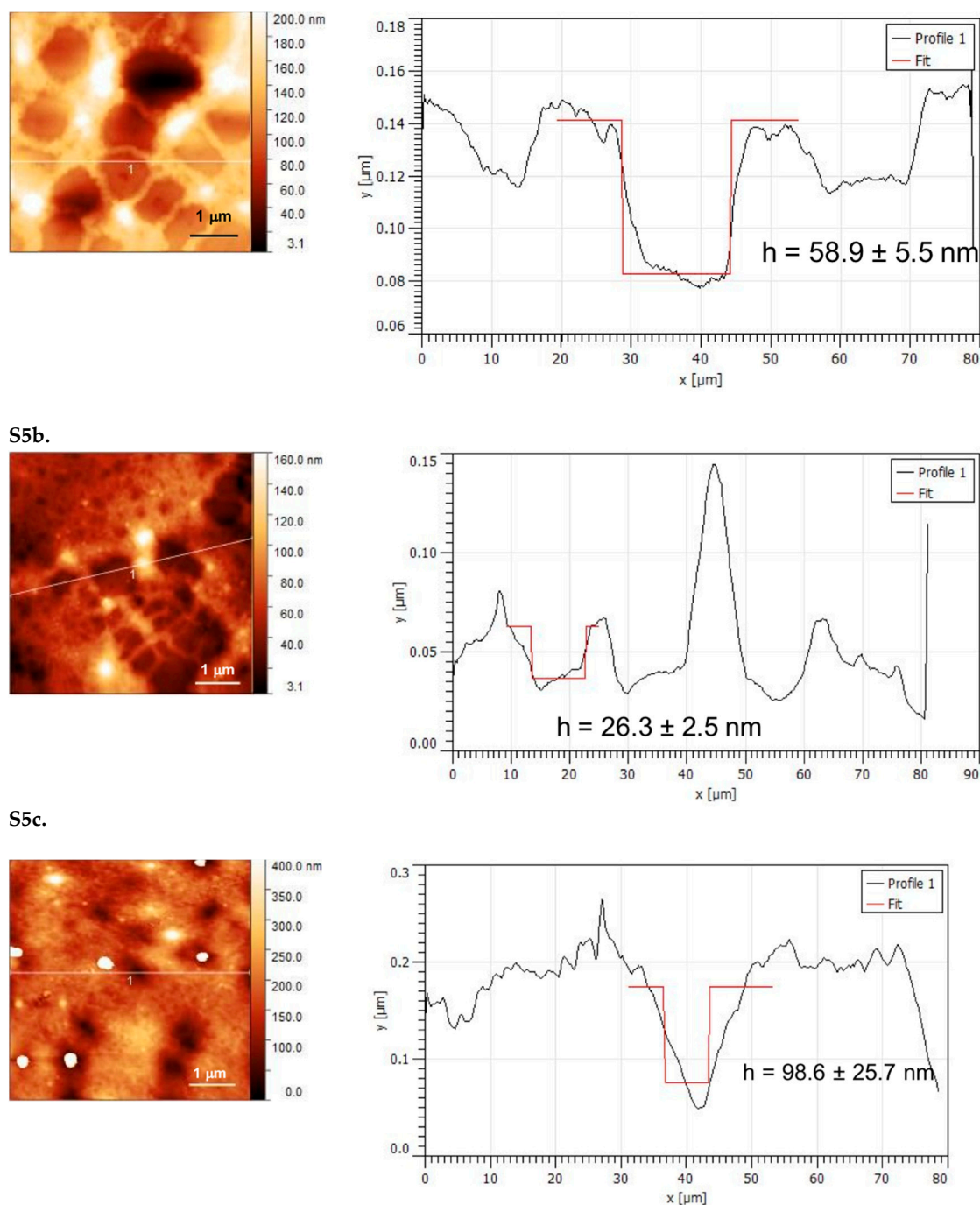


Figure S4. Larger view of the film during the heating process indicating the CdSe QDs distribution within the film under different baking conditions: **(a)** unbaked film, **(b)** film at 140 °C with small crystals presence, **(c)** film at 150 °C with presence of CdSe QDs and initial aggregation process (clusters of QDs); **(d)** film at 170 °C film with several clusters of QDs.



S5a.



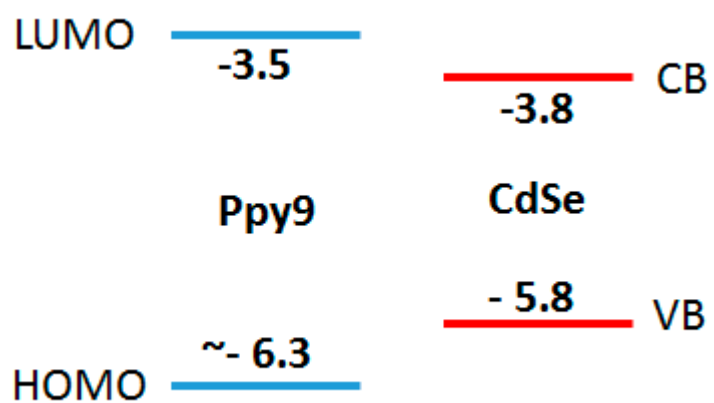


Figure S6. Energy levels of polymer Ppy9 and CdSe, showing type 1 alignment.