

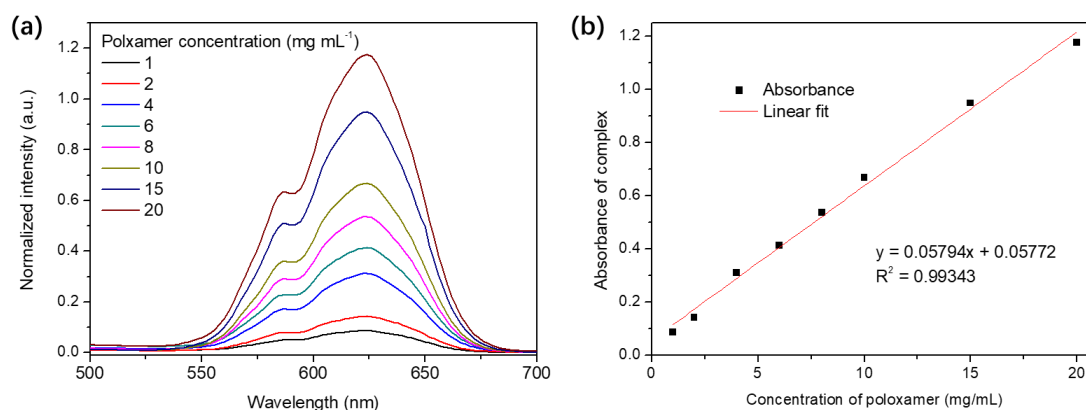
# Water-Processed Organic Solar Cell with Efficiency

## Exceeding 11%

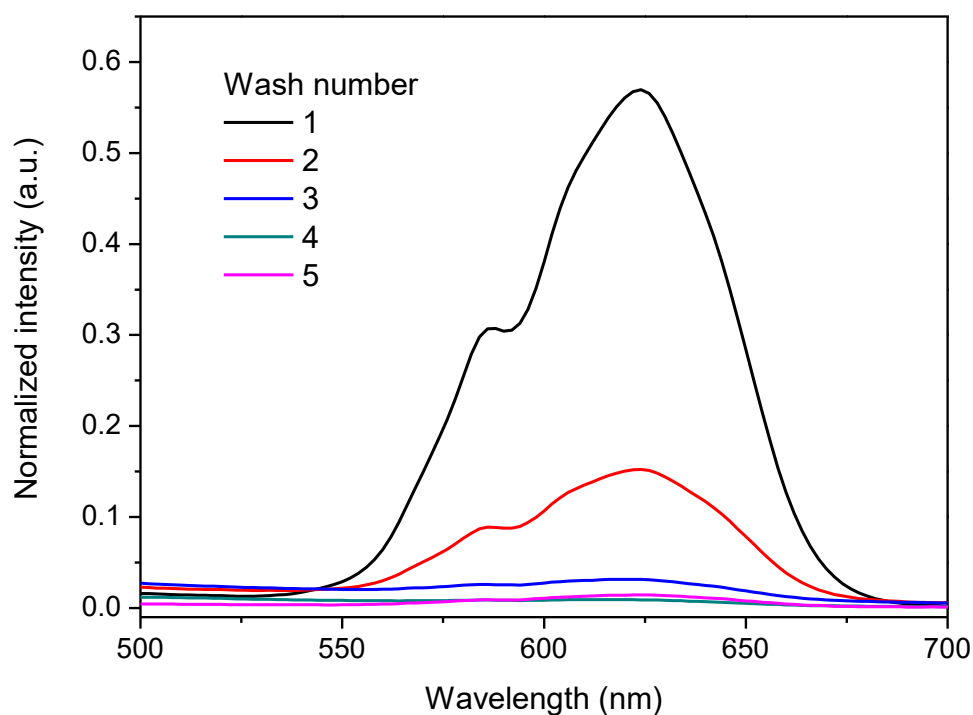
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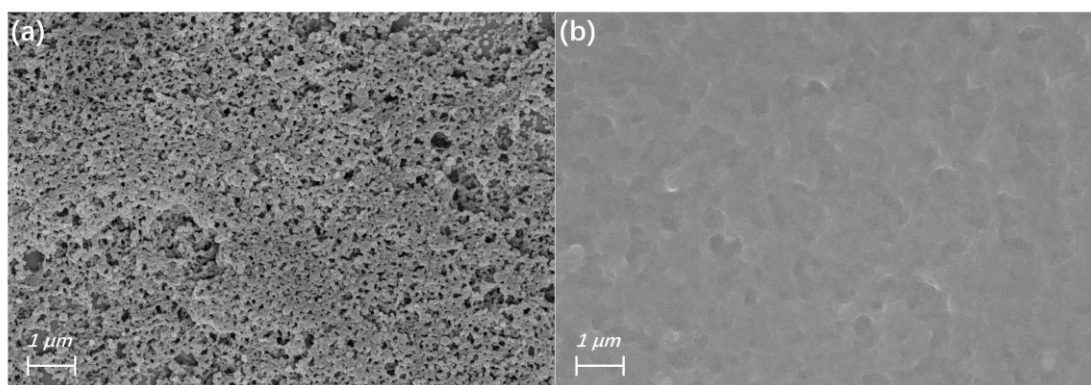
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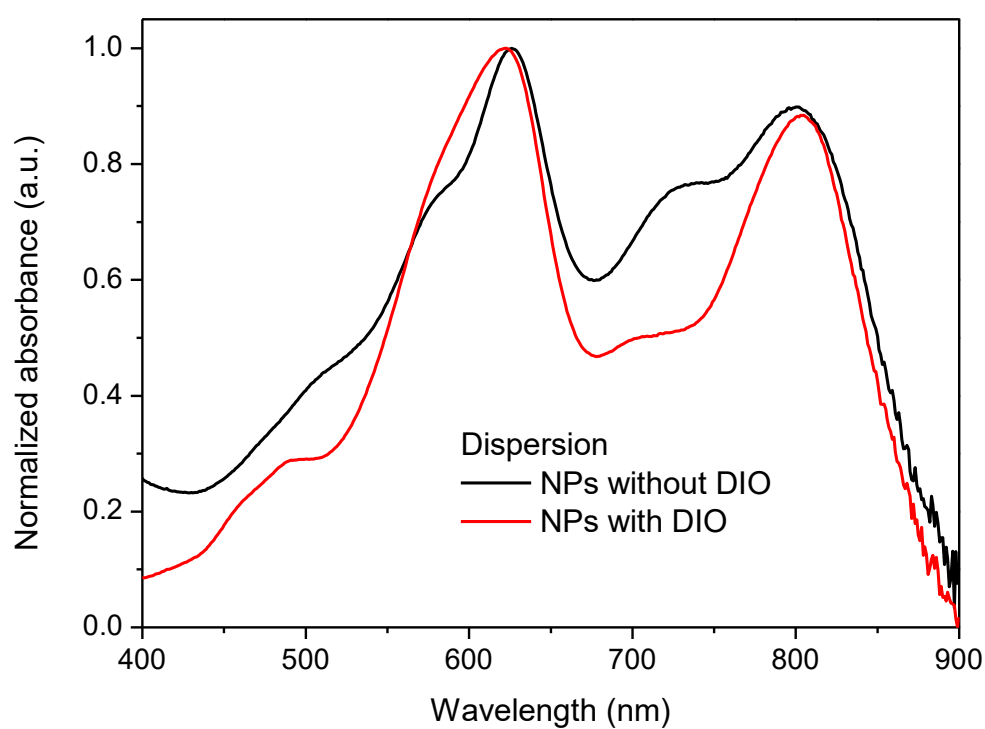
**Figure S1.** (a) Absorption and (b) calibration curve used to determine concentration of free poloxamer during centrifugal washing. Poloxamer and cobalt thiocyanate formed a dark blue complex (absorbance at 623 nm).



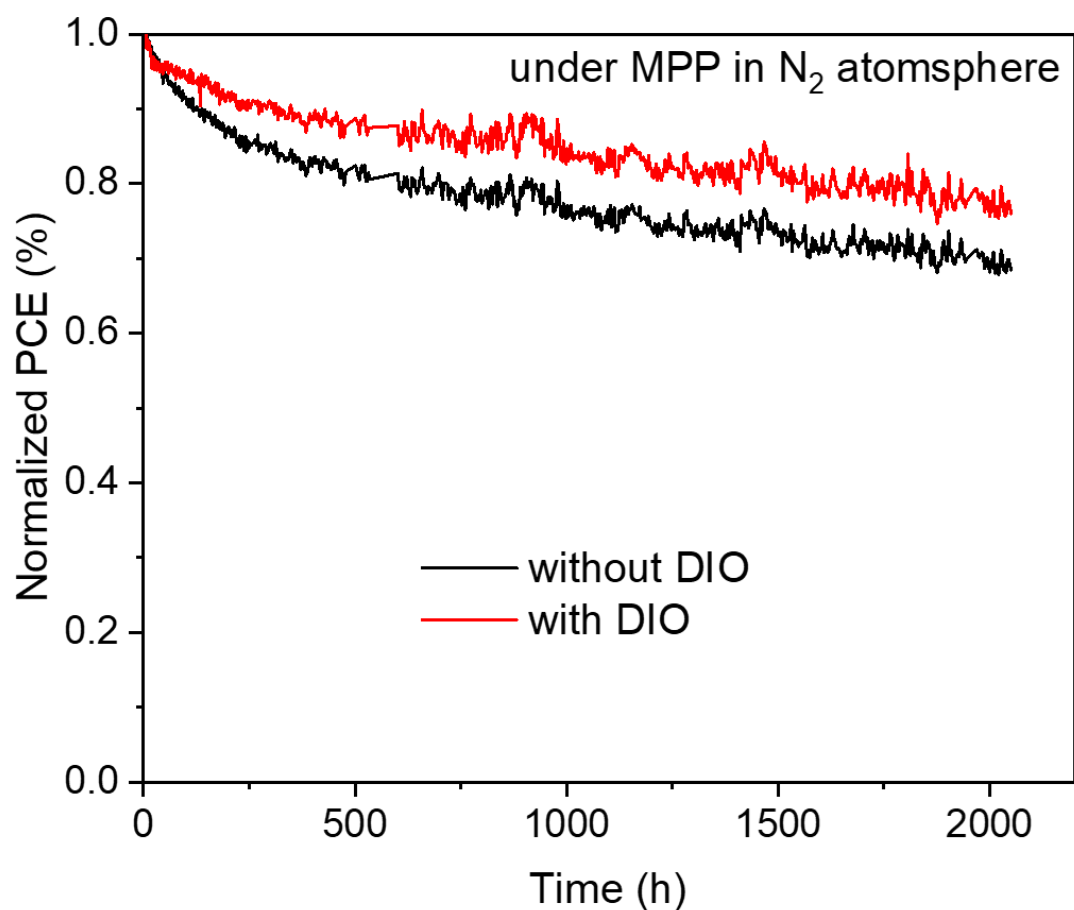
**Figure S2.** Absorption used to determine the concentration of poloxamer in filtrates collected from each centrifugal washing step.



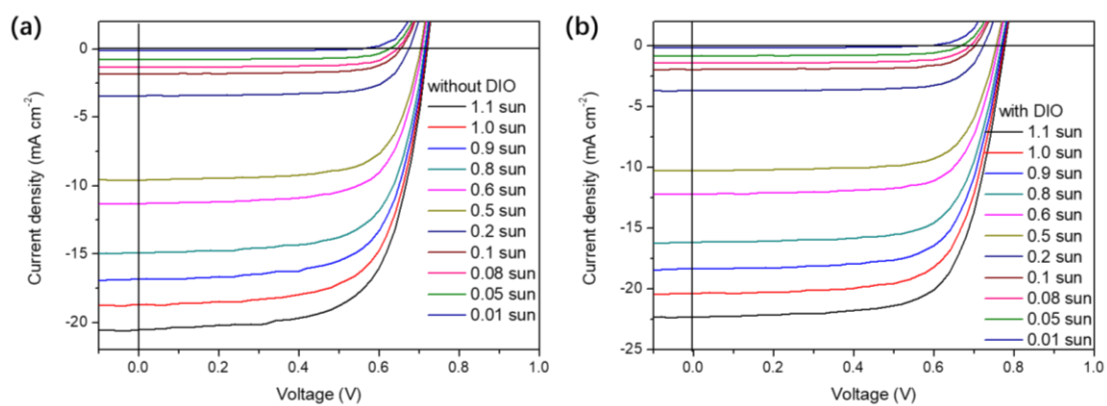
**Figure S3.** SEM images of PM6:BTP-eC9 NP films: (a) as cast; (b) 100 °C annealing for 10 minutes. .



**Figure S4.** Normalized UV-vis absorption spectra of PM6:BTP-eC9 ssNP in water dispersion.



**Figure S5.** Normalized PCE decay of PM6:BTP-eC9 ssNP processed solar cells under maximum power point (MPP) tracking in N<sub>2</sub> atmosphere.



**Figure S6.** J-V characteristics of PM6:BTP-eC9 ssNP processed solar cells (a) without DIO and (b) with DIO under different light intensities.