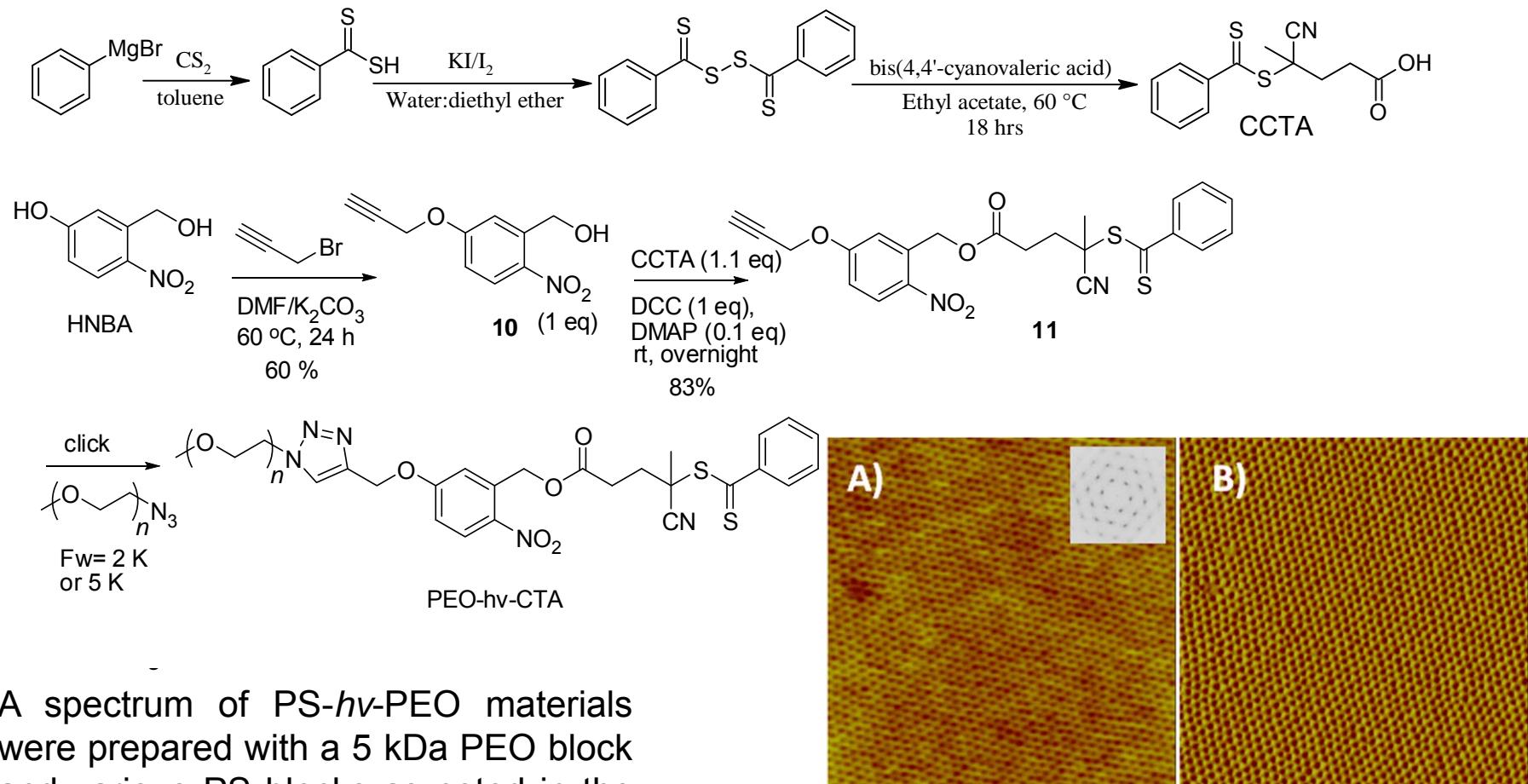


# Block Copolymers with Photocleavable Junctions

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A spectrum of PS-*hv*-PEO materials were prepared with a 5 kDa PEO block and various PS blocks as noted in the table. Good molecular weight control and low  $\mathcal{D}$  were observed in these systems.

A) Height-contrast and B) phase contrast AFM images (1  $\mu$ m x 1  $\mu$ m) of 5 kDa PEO - *hv* - 24 kDa PS BCP films after annealing 2.5 hours in THF:water atmosphere. 2D Fourier transform inset shows long-range ordering produced by solvent annealing.