**Supporting Information:** 

## Multi-Film Roll Transferring (MRT) Process using Highly Conductive and Solution-Processed Silver Solution for Fully Solution-Processed Polymer Solar Cells

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**Fig. S1** The adhesion test by a tape peeling off the adhesive tape on the devices. (a) The adhesive tape covered and rubbed for full adhesion between the MRT device and tape. (b) The image after the detached the adhesive tape from the device surface.

To investigate the long-term stability of the devices, we made devices via MRT and evaporation process. The processing conditions of the rest of the layers were the same. The devices were kept inside of the glove-box and measured under air atmosphere during the test. As can be seen from the figure, the power conversion efficiency was not significantly varied with respect to the time (over 2 weeks). However, fill factor was slightly reduced in both devices after 2 weeks.



Fig. S2 Long-term (2 weeks) stability of the devices fabricated by MRT and evaporated devices.



Fig. S3 The J-V characteristics of P3HT:PC<sub>61</sub>BM PSCs devices fabricated by MRT and evaporation.