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Simple Transfer of Ag Nanowires by Dry Film Photoresist for Paper-based Flexible Electronics

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Abstract

In this study, the facile dry transfer of silver nanowires (AgNWs) to a paper substrate using a dry film photoresist (DFR) was explored. No-primer-treated polyethylene terephthalate (NP-PET) with low adhesion strength and DFR were used as the carrier substrate and transfer medium for the AgNWs, respectively. Because of the lower adhesion of DFR to NP-PET than to paper, the DFR-coated AgNWs on NP-PET were successfully transferred to the paper substrate using simple hot pressing. The fabricated AgNW/DFR/paper electrodes were

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