

Fabrication of All-Solution Processed Transparent Silver Nanowire Electrode Using a Direct Printing Process

백장미, 이 린, 성명모

한양대학교 화학과

We report the transparent silver nanowire electrode fabricated by a direct printing process, liquid-bridge-mediated nanotransfer molding. We fabricated silver nanowire arrays by liquid-bridge-mediated nanotransfer molding using the silver nanoparticle ink and PEDOT:PSS polymer. We investigated the formation of silver nanowire arrays by SEM and transmittance of the transparent silver nanowire electrode. We also measured the conductivity to confirm the potential of our approach.

Keywords: Solution process, Silver nanowires, Transparent electrodes, Direct printing, Liquid-bridge-mediated nanotransfer molding