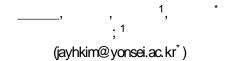
Fabrication of highly stable transparent conducting film based on AgNW / neutral -PEDOT:PSS composite



In this work, the electrical deviation problems could be resolved by filling the AgNW network with conducting polymer. Conducting polymer serves as not only connector between AgNWs but also overcoat layer, roughness. conducting polymer, which can reduce the As poly(3,4ethylenedioxythiophene):poly(styrenesulfonate) (PEDOT:PSS) is selected because of its high optical transparency and electrical conductivity. The electronic conductivity of PEDOT:PSS could be enhanced as much as 2-3 orders of magnitude by simply adding secondary dopant. The PEDOT:PSS filled in AgNW network provides electrical pathway, as a result, electrical deviation is greatly improved better than pristine AgNW film The AgNW/PEDOT:PSS composites show not only excellent optical, electrical properties but also good electrical deviation.