

Highly Improvement of Efficiency and Air stability in Inverted Organic Solar Cell using polymeric additives in PEDOT/PSS

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In organic photovoltaic, PEDOT/PSS has a disadvantage that is easily degradable by water and oxygen in the atmosphere. It reduces the efficiency of the device. To solve this problem, we developed PEDOT/PSS with water-resistance and weather proof using polymeric additives and we tested the stability of the device by applying it to the buffer layer. Also, we confirmed the efficiency of the device after tuning the PEDOT/PSS work function using the polymeric additives to well design energy level between Ag electrode and P3HT