

Electrospinning Metal Oxide Polymer Nanofiber as Moisture Absorbent of Flexible OLED

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One among the main element of the flexible Organic Light Emitting Diodes(OLED) display is the packet material which has to protect the electro luminescence cell from the oxygen and moisture. However, presently, the flexible use for OLED packet material is the condition where it is not still developed. And particularly, the research about the flowed in from the side of the element oxygen and packet material cutting off the moisture is very insufficient. In this research, the electrospinning did the solution which mixes the polymer and metal oxide hygroscopic agent in order to improve the oxygen and flowed in from the edge problem of unable to cutting off the moisture Metal Oxide / Polymer hybrid nanofiber was manufactured. In addition, presently, the hygroscopic agent which can be used in the condition where it changed in the used form of getter and it is flexible was studied. The condition as the getter was studied by the oxygen / moisture permeability according to the chemical physical transformation of a kind of the polymer and metal oxide agent and nanofiber, change after the water, and etc.