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Electrical and optical properties of graphene quantum dots via the different transfer times

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In recent years, graphene materials get more and more attention and generate plenty of application nowadays. Therefore, we make the research about graphene quantum dots (GQDs). GQDs are grown on the surface of copper foil by chemical vapor deposition (CVD)[1]. CVD is a method that can be produced on a large scale. First of all, GQDs were transferred onto the glass by the wet transfer method. we have to do the experiments to make sure the quality of graphene materials by the Raman spectroscopy. After that, we can observe the microstructure of GQDs by Transmission Electron Microscope (TEM) and then realize how many GQDs we obtain in our sample. Under the same condition of CVD, we improve the density distribution of GQDs with multiple layers of GQDs via different times of transfer. The effects of GQDs density formed in the indium tin oxide (ITO) / glass on the electrical and optical properties are evaluated.

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