



## PMMA wet transferring of CVD graphene onto the target substrate

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This paper presents the results of experiments such as the synthesis of graphene layers by CVD method on copper (Cu) foil, and then transferring process of obtained graphene layers onto target substrate. Chemical vapor deposition (CVD) method is widely used in the synthesis of graphene [1]. Obtained CVD graphene layers characterized by Raman, AFM and SEM analysis. Raman spectroscopy analysis shows D, G and 2D peaks which are related to graphene. In this research for CVD graphene transferring process the wet transfer method is used [2]. Firstly, poly methyl methacrylate (PMMA) was applied as a support layer on CVD graphene by Spin-coater. After chemical etching of copper foil, PMMA/graphene layers transferred on ITO substrate. Eventually, PMMA is dissolved by acetone. Fig.12 shows an optical image of transferred graphene flakes on ITO.

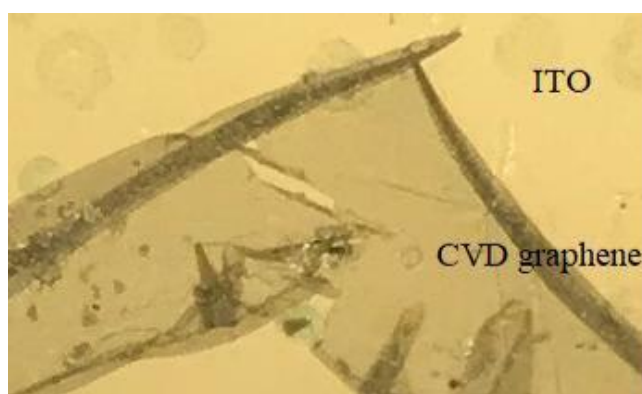


Fig. 12 Optical image of transferred graphene on ITO

[1] Xu, Y., Yan, X.-T., Springer, (2009).

[2] Dean, C. R., et al., Nature Nanotech (2010) 5, 722.

