

Abstract Submitted
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The Production of Graphene Coated Surface by PVD and Investigation of Its Electrical and Optical Properties MEHMET YUMAK, Bogazici University Lifescie Center, FATMA SIMSEK, OZGUR KOCATURK, Bogazici University Department of Biomedical Engineering — Graphene is used for a broad range of applications with unique properties such as lightweight, flexibility, mechanical strength, best electrical and thermal conductivity in industrial processes like electronics, medicine, energy, sensors, and other areas related with material usage variations. There are a few common methods to produce graphene. In this study PVD method was used to produce graphene. Many challenging issue was handled in this method like production temperature, growth surface, and mechanical effects. Produced graphene was studied by XRD, scanning electron microscopy (SEM), Raman spectroscopy, and AFM.

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