

Graphene based wearable electronics

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Abstract

With the emergence of unusual format electronics such as flexible, stretchable and wearable devices, an effort has been made to integrate devices with various functions for providing enhanced convenience for the users. However, it is very difficult to accomplish such electronics with conventional, rigid electronic materials. Graphene possesses an extremely good mechanical property that should maintain a stable operation under a high strain, offering great electronic properties that make it a promising host for device applications. The recent advances in synthesis and fabrication technique of graphene films are expected to enable various applications for flexible, stretchable and wearable electronics. In this talk, I present the application possibility of graphene films for flexible, stretchable and wearable electronics including sensor and energy harvesting devices.