北京大学量子材料科学中心

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Electronic Transport and Device Applications of 2D Materials

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Abstract

During the last decade, tremendous research efforts have been focused on two-dimensional (2D) materials due to their rich physics and great potentials for many applications. Our group is now focusing on electronic transport, electro-mechanical properties, optoelectronic properties, and related device applications of various 2D materials, as well as their van der Waals heterostructures. The first part of my talk will focus on the electro-mechanical properties of suspended graphene, which is the thinnest flexible conductive material. I will present the positive piezoconductive effect we observed