

Monolayer Graphene Fabrication for flexible Touch Screen and Displays

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Abstract

Flexible touch screen and display are promising applications for monolayer graphene film, which may provide an opportunity for the future opto-electronics devices [1-2]. The mass production of the monolayer graphene film and the technology in device fabrication processes are two key issues toward the commercial applications [3-4]. Here I will present the recent progress of graphene production and applications in flexible touch screen and display in our group. The prototype of the flexible mobile devices will be demonstrated, and the opportunities and challenges toward the commercialization will be discussed.

References

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- [2] K. Rana, et. al., *Journal of Materials Chemistry C*, 15 (2014) 2646
- [3] K. S. Novoselov, et. al., *Nature*, 490 (2012) 192
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Figures

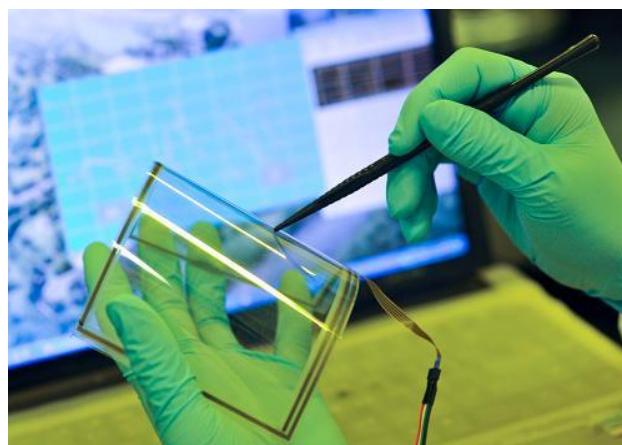


Figure 1: Flexible graphene touch screen



Figure 2: Flexible mobile phones with graphene transparent conductive film