

Road of Super Graphene Glass: Synthesis and Application

Xuan Gao

*Beijing Graphene Institute, Beijing, 100095, China
gaoxuan@bgi-graphene.com*

Abstract

Super Graphene Glass is dedicated to perfectly combine graphene film with conventional glass, giving new properties to traditional glass, allowing graphene carried by glass to real application and enter daily life. Super graphene glass is a new member of glass family. It has excellent properties such as high conductivity, high thermal conductivity, biocompatibility and high strength. It is expected to become a killer application of graphene and promote the upgrading of traditional glass industry.

History of research progress of graphene glass in the last few years is presented. The synthesis methods of graphene on different glass surfaces are summarized [1]. A comprehensive understanding of graphene growth on non-metal substrates is provided and several novel applications of graphene glass are explored such as smart window, touch panel, epitaxial substrates and so on.

References

- [1] Z. Chen et al., Adv. Mater. 2018, 183639