

Understanding the Chemistry of Graphene with Robust Functionalization

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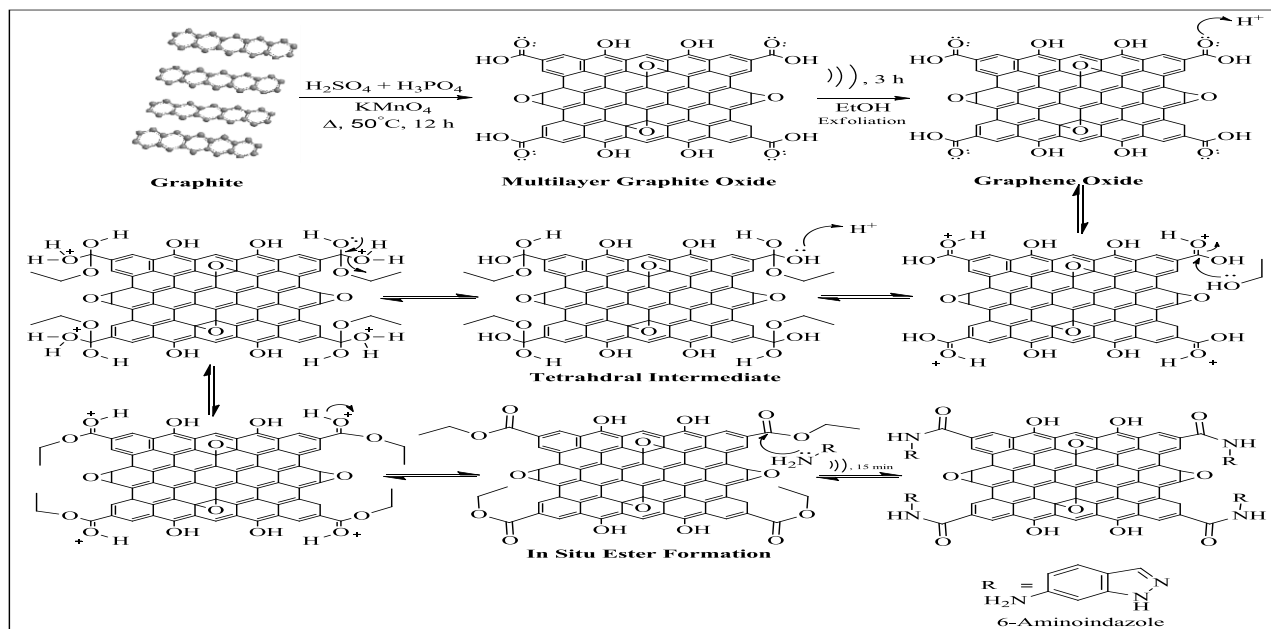
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Abstract

Since an inception, timeline of carbon and its allotropes revealed wonder discoveries of the period. Consequently, the material was revered with the Nobel Prize due to their astonishing properties. We developed the robust chemical approach for the direct functionalization of graphene oxide without using any coupling and acylating reagents. Additionally, the mechanism of functionalization supports the significance of ultrasound. Therefore, the newly functionalized graphene oxide with regioisomers of indazole has found suitable for the thermal, electrochemical and biomedical applications.

Figure



Reference

- [1] Shrikant S. Maktedar, Shantilal S. Mehetre, Gopal Avashthi, Man Singh, Ultrasonics Sonochemistry, 21, 4 (2014) 1407-1416.