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Low-temperature growth of graphene on iron substrate by molecular beam epitaxy

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Highlights:

- Temperature-dependent growth of graphene on Fe using MBE is studied.
- Graphene is achieved on Fe at a wide growth temperature range and as low as 400 °C.
- Graphene growth on Fe is associated with formation and decomposition of iron carbide.

Abstract

Graphene has attracted a great deal of interest due to its fascinating properties and a wide variety of potential applications. Several methods have been used to achieve

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