

Graphene Intercalation with Iron and Cobalt: a Brief Review

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Abstract. The attractiveness of graphene, a two-dimensional crystal consisting of carbon atoms arranged in a hexagonal lattice, for various technological applications stems from its outstanding physical, mechanical and optical properties. The intercalation of magnetic metal atoms under graphene is a flexible tool for creating new functional materials for electronics and spintronics. In this review, we consider the works devoted to the intercalation of graphene by iron and cobalt atoms, where graphene on a metal (graphene synthesized by chemical vapor deposition method) and dielectric (graphene grown on silicon carbide) substrate is used as the initial structure.

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