



**Application of Graphene Family in Water and
Wastewater Treatment**

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Graphene was first introduced in early 2000s and its importance was recognized by the Nobel Prize in physics in 2010. Graphene can be described as a two-dimensional sheet of sp^2 -bonded carbon atoms arranged in a honeycomb Lattice. The excellent physicochemical properties of the oxidized form of graphene, called graphene oxide (GO), has attracted considerable attention for its application for contaminant removal from water/wastewater. The focus of this talk is more on introducing the graphene family, different synthesis methods, the industrial challenges, and applications of graphene-based adsorbents in water/wastewater treatment