

High Specific Surface Area in Graphene Nanoparticles

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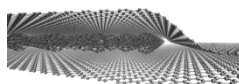
- **Abstract:**

- Graphene nanoparticles are considered a suitable alternative to carbon nanotubes for the production of electronic nanostructures due to their high electrical properties and the abundance of their main constituent, graphite, in nature.

- **Keywords:** Nanoparticle , Nanoelectronic , Graphene nanoparticles , Nano Device

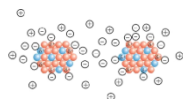
Introduction •

On the other hand, due to the unique properties of graphene, including nanoelectrical , nanoelectrochemical, and high specific surface area, the applicability of this material in many applications such as sensors, nanotransistors, energy storage sources, and various nano-microelectronic devices has increased significantly. Graphene has remarkable nanoelectronic properties, including; high Young's modulus; high fracture strength, excellent nanoelectrical conductivity, and rapid mobility of (nanocharges) . Simple electrostatic interactions between graphene nanoparticles in a solution, graphene nanoparticles, such as semiconductors, nanotransistors, exist.

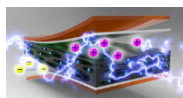


Graphene is fundamentally different in terms of its building blocks from other two-dimensional or three-dimensional graphitic materials and other carbon geometries, such as zero-dimensional

spherical fullerenes. Graphene consists of a single layer of one-dimensional carbon nanotubes of a hexagonal ring that can be considered as a supermolecule of a planar aromatic conjugated structure. The planar structure of graphene has created excellent potential for the application of this material in the field of electrostatic transfer and interaction in nano-electric devices.



The application of graphene nanoribbons in nanomaterials for electromagnetic interference shielding and nanoelectrostatic discharge has been extended to nanoelectronic devices such as Rectenna nanoantennas and nanosupercapacitors. The efficiency of graphene particles in nanoelectromagnetic interference shielding and enhancement is measured with modified graphene nanoribbons. One of the important and new structures of carbon nanostructures is graphene. Graphene is a sheet of carbon atoms. Graphene is the newest member of the large carbon family. The term graphene was used to describe a single nanolayer of graphite. This nanomaterial has high transparency due to its small thickness. It has also attracted a lot of attention due to its conductivity. It is very difficult to control the conditions for separating a single graphene layer, usually the prepared material called graphene consists of sets of multiple graphene layers, each containing a different number of sheets.



Electrostatic interactions of graphene nanoparticles occur on non-planar molecular surfaces, and graphene nanosheets do not have a completely flat atomic structure, and graphene sheets are flexible, meaning they bend, fold, or have wavy surfaces. The large curvatures are related to the method of preparing graphene, and the small waves are an inherent property of the separated layers.

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