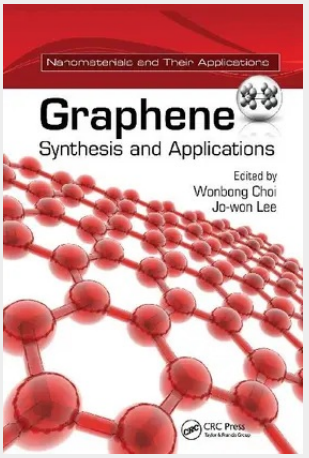
Choi / Lee

Graphene

Synthesis and Applications

Since the late 20th century, graphene—a one-atom-thick planar sheet of sp2-bonded carbon atoms densely packed in a honeycomb crystal lattice—has garnered appreciable attention as a potential next-generation electronic material due to its exceptional properties. These properties include high current density, ballistic transport, chemical inertness, high thermal conductivity, optical transmittance, and super hydrophobicity at nanometer scale. In contrast to research on its excellent electronic and optoelectronic properties, research on the syntheses of a single sheet of graphene for industrial applications is in its nascent stages. Graphene: Synthesis and Applications reviews the advancement and future directions of graphene research in the areas of synthesis and properties, and explores applications, such as electronics, heat dissipation, field emission, sensors, composites, and energy.

Because of its exceptional electronic and optoelectronic properties, graphene has the potential to become an important material in next-generation electronic and energy applications. This authoritative volume discusses the synthesis, properties, and potential applications of graphene, including in electronic, sensor, energy, and display technolo



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