Special Issue

Graphene Oxide and Heterocycle-Involving Graphene Analogues: Syntheses, Functionalizations, Interactions and Catalysis

Message from the Guest Editor

In recent years, there has been a remarkable interest in graphene, predominantly because of its exceptional properties (both physical and chemical). A substantial part of current research on graphene deals with the development of novel methodologies, allowing the tailoring of its properties. These methodologies rely, in their vast majority, on covalent and noncovalent functionalizations which can provide access to novel materials with suitable properties for new technological applications. Specifically, functionalization of graphene with heterocyclic compounds attracts more and more attention. Multifunctional modifications of graphene via attachment of heterocycles or via heteroatom doping techniques can modulate its properties, and this can be vital for a number of applications, e.g., electronic, environmental, sensing applications, as well as catalysis. In line with the above trends, this Special Issue aims to cover new research and review this growing scientific field.

Guest Editor

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