



Journal of Nanomaterials

Special Issue on
**Graphene and Nanoparticles Based Composite
Materials for Sensors and Energy Conversion**

CALL FOR PAPERS

Graphene is a single layer, two-dimensional material which has interested scientific community as extraordinarily attractive component of sensors, solar cells, and photocatalytic devices due to its unique structural properties as light transparency from visible to infrared, excellent thermal and electrical conductivity, high surface area, and high mechanical strength and flexibility. The high reactivity of the two-dimensional graphene platform opens venue to a large variety of chemical strategies of functionalization by means of molecular decoration approaches. When graphene is modified with nanoparticles by means of an interface designed properly for allowing electronic coupling between the components, nanostructured composite materials, exhibiting enhanced pristine functionalities and/or novel properties arising from merging of the outstanding functionalities of graphene with properties of the nanoparticles, can be achieved for a plethora of advanced technological applications.

This special issue aims to publish original research articles as well as review articles providing new avenues on synthesis, characterization, and applications of composite materials based on graphene and organic/inorganic nanoparticles exhibiting novel/enhanced functionalities and/or functions that are not yet published or that are not currently under review by other journals or peer-reviewed conferences.

Potential topics include, but are not limited to:

- Design, synthesis, and characterization of composite materials based on graphene and organic/inorganic nanoparticles by covalent and noncovalent approaches
- Interfacial interactions and processes
- Demonstration of novel/enhanced functions and/or application for sensors, solar cells, and photocatalysis

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