



Journal of Nanomaterials

Special Issue on
Multifunctional Polymer Nanocomposites and Nanohybrids for Advanced Applications

CALL FOR PAPERS

The rapid advances in the field of multifunctional polymer nanocomposites and nanohybrids have been propelling by the global wide sustained interests. The objective of the special issue is to develop fundamental knowledge in order to be able to incorporate functional properties of the materials. The scope covers aspects of processing and structural and functional properties of polymer nanocomposites and nanohybrids for different applications. The special issue is aimed at providing a platform which can address how industry and academia can work together in order to take advantages of these emerging materials. It is important to have regular fora dedicated to this class of emerging materials.

We invite investigators to contribute original research as well as review articles in the following specific topics.

Potential topics include, but are not limited to:

- ▶ Materials
 - ▶ Organic-inorganic nanohybrids
 - ▶ Nanoparticles and nanofillers, for example, graphene, CNTs, natural fibers, and metal-organic frameworks
 - ▶ Fibers-based nanocomposites (mechanisms of dispersoids-matrix interactions and dispersion approaches/routes)
 - ▶ Porous nanomaterials/foams
 - ▶ “Green” nanocomposites and nanohybrids
- ▶ Properties
 - ▶ Nanoreinforcement and nanotoughening
 - ▶ Mechanical, electrical, thermal, optical, and magnetic properties
 - ▶ Fire retardant and high temperature resistant properties
 - ▶ Electromagnetic interference shielding
 - ▶ Bactericidal/fungicidal properties
- ▶ Applications
 - ▶ Environmental protection and water treatment
 - ▶ Energy storage and conversion
 - ▶ Defense and aerospace
 - ▶ Sports
 - ▶ Food packaging

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