

## **Journal of Advanced Physics: Special Issue on Nanostructured Polymeric Systems**

The Journal of Advanced Physics invites original research articles for a special issue with a focus on nanostructured polymers and polymer nanocomposites for energy applications. The development of next-generation nanocomposites necessitates the fundamental understanding of the polymer-particle interactions at the nanoscale and how they are manifested in the macroscopic performance of the composites. This issue will feature articles with emphasis on nanoscale principles that will lead to the design and synthesis of high performance nanomaterials for energy storage and energy conversion applications.

Authors are welcome to submit articles in the areas of, but not limited to:

Multifunctional nanoparticles

Advanced materials for energy storage and energy harvesting (i.e. organic semiconductors, capacitors, fuel cells, batteries, etc.)

Self-assembled nanostructures

Physical properties and modeling of polymer nanocomposites

Polymer dynamics in confined environments

Hybrid interfaces

Nanostructured surfaces with tailored surface energy properties

Deadline for submissions: October 31, 2014

Manuscripts should be prepared according to the Journal's guidelines

Submit your manuscripts directly to Guest Editor Georgios Polizos (g.polizos@aol.com)