Special Issue

Synthesis, Characterization and Application of Hybrid Composites

Message from the Guest Editor

Polymer composites represent the platform materials of the XXI century and are an important slice of the market in the production of modern plastics. Their design is based on adding a second component to the polymer matrix to enhance its properties. Among the various possible composites, organic–inorganic hybrid materials offer advantageous performance relative to either of the non-hybrid counterparts. The dramatic improvement of physical properties, compared with pure materials, in which inorganic particles or nanoparticles are inserted into an organic polymeric matrix, could bridge the gap between ceramics and polymers. We are interested in articles that explore polymer-based hybrid systems. Potential topics include, but are not limited to, the following:

- The synthesis and characterization of polymeric hybrid materials
- Hybrid composites in electronics and energy applications
- Hybrid composites in space applications
- The biomedical application of hybrid polymeric materials

Keywords: Composites, Nano-composites, Polymer blends, Polymer hybrid, Biomimetic materials, Biopolymer

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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