Special Issue

Nanocomposite Materials: Synthesis, Properties and Applications

Message from the Guest Editor

Nanocomposites exhibit multifunctional properties such as high mechanical strength, high electrical conductivity, redox reactivity, and catalytic activity. Therefore, they could have wider applications in medicine, biotechnology, electronics, engineering, and catalysis than mono components. The chemical and physical properties of nanocomposites depend on the morphology, chemical arrangement, composition, and interfacial characteristics of their component materials.

This Special Issue of Applied Sciences aims to collect papers covering all the types of nanocomposite materials, such as metal oxides–metal, metal–carbon, and metal oxides–polymers, or organic nanostructures, organic nanostructures, and organic–inorganic hybrid nanostructures. The articles should not only describe the methods of nanocomposites' synthesis, and their morphology, composition, optical, magnetic, thermal, and mechanical properties, but, importantly, should shed more light upon the relationship between their structure, physical and chemical properties, and possible applications.

Guest Editor

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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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