Special Issue

Synthesis and Characterization of Nanomaterials: Latest Advances and Prospects

Message from the Guest Editor

This Special Issue of Applied Sciences aims to cover the synthesis of nanomaterials by physical, chemical, and biological routes, as well as to promote the emerging interdisciplinary advances to control nanomaterials processing, functionalization, and coating, including their formation mechanisms.

The characterization of nanomaterials properties involves the correlations between atomic structure, composition, dimension, size, morphology, shape, surface, coating, stability, and self-assembly, among others with their physical, chemical, and biological responses as function of time and environment.

This issue ponders the latest advances and prospects in the synthesis and modification of nanomaterials, through improved properties. These features open unlimited possibilities for potential applications in different areas. **Keywords:**

- synthesis and characterization
- biomimetics nanoparticles
- semiconductor nanomaterials
- smart nanomaterials
- bio-nanomaterials
- magnetic nanomaterials
- nanotoxicity

Guest Editor

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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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