

Special Issue

Advances in Nanomaterials and Their Applications

Message from the Guest Editors

Nanomaterials are the subject of extensive research due to their unique properties and broad applications in areas such as electronics, optoelectronics, photocatalysis, and electrocatalysis. Despite the many existing methods for synthesizing nanomaterials, new synthesis methods are still highly sought after to meet the demands of various applications and to address the remaining challenges. Nanomaterials are known for their enhanced carrier mobility, photoresponsivity, and photocatalytic and electrocatalytic properties, which are crucial for developing innovative devices and applications. For instance, semiconducting two-dimensional materials with high carrier mobility hold great promise as potential candidates for the next generation of electronics and optoelectronics. This Special Issue focuses on new synthesis methods and applications of nanomaterials. The topics covered will not only explore novel synthesis methods for low-dimensional materials, but also examine the properties and applications of these materials, encompassing areas such as electronics, optoelectronics, photocatalysis, and electrocatalysis applications, among others.

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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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