



Recent Advances of Nanomaterial: Surface Modification, Characterization, and Application

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Message from the Guest Editors

Dear Colleagues,

Today, various nanomaterials are designed and prepared for nanomedicine, such as polymer-coated nano drugs, metal nanoparticles, nano-carriers, nanoemulsions, and semiconducting nanomaterials. The applications of nanomaterials overcome several limitations of traditional medicine, including short circulation time, serious side effects, and low bioavailability. Accordingly, the great success of nanotechnology is allowing for a tremendous revolution in the biomedical field. Various therapeutic nanoplatforms have been developed with therapeutic functions and intellectual properties.

In this Special Issue, original research articles and reviews are welcome. Research areas may include (but are not limited to) the following:

Green synthesis of nanomaterials, metal nanoparticles, polymer-coated nanoparticles, surface-modified nanoparticles for phytocompound delivery, in vitro and in vivo screening in various diseases, and their biomedical and environmental applications.

We look forwards to receiving your contribution.





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Message from the Editorial Board

Now more than ever, research is asked to deliver knowledge and technologies to solve the major challenges faced by our society. The development of new materials and devices for (without the ambition to be exhaustive) energy, health and food technology, together with the need for establishing processes that reduce the impact on critical resources and the environment, is indeed in the spotlight of most contemporary research. Surface science and engineering play a key role in this regard, with an incredible potential in delivering new and deep scientific understanding and technical solutions essential to solve most of the major societal challenges.

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