

Special Issue

Advances in Nanoparticles: Surface Modification, Characterization and Its Application

Message from the Guest Editor

Surface modification of nanomaterials is a powerful tool to control the biological fate of nanocarriers, assuring controlled and targeted drug release with reduced cytotoxicity effects, thereby improving therapeutic efficacy. Apart from therapeutic delivery, surface functionalization has proven to be advantageous in the fields of sensing, separation of biochemicals, development of biomaterials, disease diagnosis, and enzyme immobilization in the field of biomedicine. In addition to biomedical applications, nanomaterial surface modification has found uses in the fields of catalysis, electrochemistry, energy-based materials, and nanoelectronics. This Special Issue of *Coatings* aims to receive contributions (in the form of research articles, letters, reviews, and communications) to update the rationale, applications, and prospects in the surface functionalization of nanomaterials, including the most advanced chemical methods adopted for surface modification. I kindly invite you to submit a contribution to this Special Issue of *Coatings* on “Advances in Nanoparticles: Surface Modification, Characterization, and Its Applications”.

Guest Editor

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Deadline for manuscript submissions

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About the Journal

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.

Coatings is a well-established, peerreviewed, online journal dedicated to the vibrant field of surface science and engineering. Coatings publishes original research articles that report cutting-edge results and review papers that make the point on the hottest research topics.

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