

Special Issue

Biomedical Materials: Preparation, Modification, Characterization and Medical Application

Message from the Guest Editors

Various biomedical materials, including, polymers, inorganic nanomaterials, metal materials, etc., have been designed and applied in medical fields, such as drug delivery, tissue engineering, medical device, immune therapy, etc. Novel preparation methods, modification strategies and characterization measures are critical factors to meet the growing requirements of biomedical materials, and promote the emerging development of biomaterials. Furthermore, it is also important to introduce the medical applications of biomedical materials. In this Special Issue, research into the biomedical polymers (especially biodegradable polymers), functional inorganic nanomaterials, biocompatible metal materials are welcomed. In particular, the topic of interest includes but is not limited to

- Preparation, characterization and application of biomedical polymers;
- Surface modification of biomaterials and medical devices;
- Biomaterials used in bone tissue engineering/dental materials;
- Novel inorganic antibacterial materials;
- Smart drug-delivery system;
- Nanomaterials for immune modulation and therapy.

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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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