

Special Issue

Advances in Multifunctional Natural and Synthetic Biomaterials

Message from the Guest Editors

Biomaterials are biocompatible materials that have been designed and developed to interact with biological systems. They are innovative top materials with emerging potential to be used in a wide range of multifunctional applications. Biomaterials include polymeric materials, biopolymers, ceramics, some active metals and their alloys, bioactive glasses, composites, and synthesized materials of animal origin that can interact with biological matter. To enhance their bioactivity, the addition of specific functional elements, such as nanomaterials, essential oils, phytochemicals, and bioactive components can lead to further improvement of the properties of biomaterials. Biomaterials can be successfully applied in various fields such as pharmaceutical, textile, food, cosmetic, agriculture, and water treatment. This Special Issue aims to explore how biomaterials can be designed, prepared, functionalized, characterized, and used to produce a useful new generation of versatile and multifunctional materials.

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