Special Issue

Functional Composite Biomaterials

Message from the Guest Editor

In the search for new solutions in material technologies, humans have long been trying to find the right patterns in nature. Using an appropriate, conscious combination of various components, e.g., fibers and polymers, metallic or ceramic materials, it is possible to design extremely complex spatial structures that fulfill increasingly complex functions. In modern solutions of material designers, the concept of so-called multifunctional materials—a kind of homogeneous material which, apart from its basic function, is performed by, for example, a construction material carrying a mechanical load—is also able to signal its wear and durability. Development of functional and multifunctional composite materials is an important step towards creating a new generation of bioactive materials for applications in medicine and dentistry, which can become the basis for development of new hard and soft tissue implant dental materials as well as drug delivery systems.

Guest Editor

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