



Biomimetic Multifunctional Composites for Hard Tissue Regeneration

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Message from the Guest Editors

Dear Colleagues,

Population ageing and the modern way of life result in increased frequency of chronic disease, hard tissue (bone and teeth) diseases take a special place due to the fact that they are present in all age groups, significantly reduce patient quality of life, and influence society in general. Often the only treatment of such diseases is implantation with the aim to regenerate damaged or diseased tissue.

However, a number of implants fail prematurely. In addition, due to the continuous population ageing, many patients are outliving their implants. Although the frequency of the failures is not high, it is costly. The solution of such problems is sought in the development of multifunctional materials, which in addition to replacing missing tissue and/or enabling its regeneration, as well as having improved mechanical properties, will act as a local drug delivery system.

In this Special Issue, novel trends in development, and, the characterization and synthesis of composite materials either mimicking hard tissues in their architecture and/or being produced by biomimetic methods will be presented.





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Message from the Editor-in-Chief

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