



## Nanoscale Characterization of Bioceramics

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### Message from the Guest Editor

These crystals take a part in the biological (chemical, mechanical...) functions of our different tissues.

In the case of diseases (osteoporosis, carious dissolution) or trauma our tissues are destroyed and need to be replaced.

The design of replacement materials with long term properties identical to the tissues replaced is an immense challenge and can only met by the understanding of the nanoscale process of the pathological destruction processes of osteoporosis and carious dissolution and the optimization of the design of novel replacement biomaterials and nanoparticles with specific response of the host tissues.

In order to perform these tasks, sophisticated nanoscale characterization techniques treating of the aspects above are required.





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## Message from the Editor-in-Chief

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