

Special Issue

Bioceramics: Challenges and Medical Applications of Calcium-Phosphate-Based Biocompatible Ceramics

Message from the Guest Editors

Calcium phosphate ceramics are rapidly developing in the field of biological hard tissues and have a significant impact on basic science and clinical research.

Numerous studies have contributed to our knowledge of molecular mechanisms by producing materials via molecular synthetic reactions, assessing their molecular behaviour in vivo, defining the pathways affecting therapeutic tissue regeneration, and developing them as tools for more effective prevention, diagnosis, and therapy. This open access Special Issue will bring together original papers and review articles on frontline research in calcium phosphate, with a focus on hydroxyapatite and tricalcium phosphate and biphasic calcium phosphate. We will highlight new approaches and technological developments in calcium phosphate materials. The main feature of this Special Issue will be the open source sharing of important research results in the field of molecular sciences, leading to a deeper understanding of calcium phosphate, the synthesis and characterization of noble materials, the improvement of material properties for medical applications, and the discovery of new diagnostics and therapies.

Guest Editors

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Message from the Editor-in-Chief

The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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