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Structural Characterization of Calcium Phosphates by Means of X-ray Diffraction

Guest Editor:

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Deadline for manuscript submissions:
closed (31 December 2019)

Message from the Guest Editor

We invite colleagues to submit papers on calcium phosphate materials, both natural and synthetized, with possible substitutions both at Ca sites (Sr, Pb, REE, etc) and at anionic groups (V, As, etc), which relate to the methods and synthesis for novel phosphate nanomaterials, their structural characterization by means of X-ray diffraction, joined by other complementary techniques (SEM–EDS, FTIR, Raman, luminescence etc.), and possible applications/interests in biomedical sciences, materials, cultural heritage, optics, mineralogy, planetary sciences, etc., including:

- $Ca_5(PO_4)_3(OH,F,Cl)$ apatite;

- $Ca_3(PO_4)_2$ tricalcium phosphate (TCP);

- $Ca_9(Mg,Fe)(PO_4)_6(PO_3OH)$ whitlockite;

- Other Ca orthophosphate phases, such as $CaHPO_4{\cdot}2H_2O$ brushite, $CaHPO_4$ monetite, oxyapatite $Ca_5(PO_4)_3O_{1/2}$, etc.;

- Calcium diphosphates or polyphosphates of any technological interest.

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Editor-in-Chief

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Message from the Editor-in-Chief

Welcome to *Crystals*, the journal dedicated to the fascinating world of crystallographic research! Crystals are more than mere decorative elements; they hold the key to understanding the fundamental structure of matter. Our mission is to explore the crucial significance of this research across various fields. From medicine to technology, chemistry to geology, crystals play a vital role. Their structure provides insights into new advanced materials, innovative drugs, and groundbreaking technologies. Through *Crystals*, we delve into the microscopic world to discover solutions that will shape the future. Join us on a journey through the *Crystals*, where science merges with beauty and innovation.

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