

Special Issue
CALCIUM-PHOSPHATE NANOBIOCERAMICS**Onder Albayrak¹****AIM AND SCOPE**

Calcium phosphate (Ca-P) based bioceramics like hydroxyapatite and tricalcium phosphate have proved to be attractive materials for biological applications and have been used in medical and dental applications as a granular form (as powders or pastes), as a solid block (in sintered form) or as coating materials on metal implants (to combine the mechanical benefits of metals with the biocompatibility of bioceramics). Nanosized Ca-P based bioceramics have increasingly been in demand and many efforts have been devoted to optimize synthesis parameters or to develop new process routes. In the past decades remarkable progress has been made to improve the functionality of nanostructured Ca-P based bioceramics in terms of antibacterial activities, mechanical properties and bioactivity. This special issue is dedicated to the recent advances in the field of Ca-P based nanoceramics.

Keywords: *Nanostructured bioceramics, hydroxyapatite, porous structure, composites, coatings, antibacterial activity, mechanical properties, in vitro test; bioactivity.*

SUBTOPICS:

Research papers and mini reviews regarding synthesis, processing, characterization and testing of nanosized Ca-P based nanoceramics are solicited in, but not limited to, the following subtopics:

1	Apatites and Ca-P based ceramics	5	Porous structure
2	Metal-doped Ca-P based ceramics	6	Antibacterial property
3	Ca-P based composites	7	Mechanical properties
4	Ca-P based coatings	8	Medical and dental applications

SCHEDULE

Manuscript submission deadline	September 15, 2014
Peer Review Due	October 15, 2014
Revision Due	November 15, 2014
Notification of acceptance by the Guest Editor	December 01, 2014
Final manuscripts due	December 15, 2014

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