

Special Issue on
Nanomaterials in Bone Tissue Engineering

CALL FOR PAPERS

There has been growing demand for new techniques applied to the repair of bone defects due to an increase in bone tumors, bone infections, and other causes of skeletal tissue loss. In recent years, nanomaterials have emerged as promising resources for bone fracture repair due to their unique physical and/or chemical properties that are different from conventional materials. Furthermore, bioinspired and biomimetic functional nanomaterials have been employed to control bone regeneration.

Bone tissue engineering is an important field of research, particularly in bone tissue applications. Tissue engineered artificial bone using combinations of cells, scaffolds, and functional nanomaterials is a promising strategy for advance in bone tissue engineering.

This special issue aims to provide a better understanding of role of nanomaterials and tissue engineered scaffolds used as candidates in improving the bone regeneration and clinical applications of nanomaterials as bone substitutes. We especially welcome submissions relating to bioinspired and biomimetic synthesis of nanomaterials/nanostructures in bone regeneration. We encourage authors to submit original research as well as review articles which describe the current state of the art.

Potential topics include but are not limited to the following:

- ▶ Nanofibers, nanotube, nanoparticle, and hydrogel used as candidates in bone tissue engineering
- ▶ Bone scaffolds with nanostructure engineered surface for bone tissue regeneration
- ▶ Growth, synthesis, and characterization of nanomaterials for bone tissue engineering
- ▶ Clinical applications of nanomaterials as bone substitutes

Authors can submit their manuscripts through the Manuscript Tracking System at <https://mts.hindawi.com/submit/journals/jnm/anbte/>.

Papers are published upon acceptance, regardless of the Special Issue publication date.

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