# **Special Issue**

## Research and Development of New Metal-Based Biomaterials

## Message from the Guest Editors

Metal is an important member of biomaterial family, usually playing a role of mechanical support in human body and generally behaving bio-inert. This special issue will invite those working on research and application of met-al-based biomaterials to contribute their research achievements or reviews on the new metal-based biomaterials in order to promote people to better understand and be involved in these studies. The topics of interest include (but are not limited to):

- Additively manufactured metallic biomaterials
- Multi-functional biomaterials
- New metals and alloys for application in medicine and biology
- Advanced production techniques for metallic biomaterials
- Mechanical properties of metallic biomaterials
- Anti-microbial and infection-resistant implants and metallic biomaterials
- Biomaterial-tissue interfaces
- Mechanical properties of metallic biomaterials
- Coatings and surface treatments of metallic biomaterials
- Biodegradable metallic biomaterials including magnesium, zinc, iron, and their alloys
- New areas of application for metallic biomaterials
- Surface patterning of metallic biomaterials

## **Guest Editors**

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## Deadline for manuscript submissions

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## About the Journal

## Message from the Editor-in-Chief

Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. Materials provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

#### Editor-in-Chief

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