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# Manufacture, Mechanical Properties and Metallurgy of Metallic Biomaterials

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# Message from the Guest Editor

Dear Colleagues,

Metallic biomaterials have been successfully used since the last century, with a great impact on millions of people around the world. There are many applications in orthopedic (bone plates, screws, and hip and knee artificial joints), dentistry (dental implants, bridges, dentures, etc.), cardiology (blood vessels fixation devices, vascular stents, catheter guide wires, artificial heart valves, and pacemakers), and other applications like surgical kits or metallic devices that interact with human soft tissues.

Examples of relevant topics include the following:

- Manufacturing processes: machining, forming, casting, and additive manufacturing, as well as other manufacturing process.
- Mechanical properties related to specific manufacturing parameters and processes.
- Metallurgy of alloys employed for biomedical applications.

Prof. Dr. Marco A. L. Hernandez-Rodriguez *Guest Editor* 









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### **Message from the Editorial Board**

Metallic materials play a vital role in the economic life of modern societies; contributions are sought on fresh developments that enhance our understanding of the fundamental aspects related to the relationships between processing, properties and microstructure - disciplines in metallurgical field the ranging from processing. mechanical behavior. phase transitions and microstructural evolution, nanostructures, as well as unique metallic properties – inspire general and scholarly interest among the scientific community.

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