

Special Issue

Advances in Titanium Alloy: Surface Modification and Biomedical Applications

Message from the Guest Editors

Metals is launching a new Special Issue entitled "Advances in Titanium Alloy: Surface Modification and Biomedical Application". This Special Issue will offer an opportunity to showcase the most recent experimental and theoretical progress in this progressive field. Metallic materials constitute approximately three-quarters of biomedical implant materials. Thanks to their excellent combination of chemical, mechanical, and electrochemical properties, starting from the middle of the last century, Ti and its alloys have been widely used for various biomedical applications, along with a wide range of industries and applications. Despite the numerous advantages of titanium-based biomaterials, several clinical issues remain, including low tribocorrosion resistance resulting in the release of metallic ions and wear debris, an elastic modulus mismatch between implants and bone leading to bone resorption, bio-inertness that can hinder osteointegration, and lack of antimicrobial activity that can increase the risk of infection.

Guest Editors

Dr. Alexandra C. Alves

CMEMS-UMinho – Center for MicroElectroMechanical Systems,
Universidade do Minho, Azurém, 4800-058 Guimarães, Portugal

Dr. Fatih Toptan

Izmir Institute of Technology, Department of Materials Science and
Engineering, Urla, 35430 Izmir, Turkey

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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
materials@mdpi.com

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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

Prof. Dr. Maryam Tabrizian

1. Department of Biomedical Engineering, Faculty of Medicine and Health Sciences, McGill University, Montreal, QC H3A 2B6, Canada
2. Faculty of Dentistry and Oral Health Sciences, McGill University, 3640 Rue University, Montreal, QC H3A 0C7, Canada

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