

## Special Issue

# Interaction Between Biomaterials and Biological Systems

### Message from the Guest Editor

Biomaterials currently have enormous importance in biomedicine, including biomedical devices, tissue engineering implants, drug delivery systems, and antibacterial material. Biomaterial–cell and biomaterial–tissue interactions in implant materials represent key issues to address in both initial and long-term implant integration. An understanding of these interactions will guide structural design and surface modification in biomaterials. With this Special Issue, we hope to inspire researchers and academics to explore the interactions between biomaterials and various biological systems and contribute to the design, development, application, and evaluation of biomaterials. For this Special Issue, original research articles and reviews are welcome. Research areas may include (but are not limited to) the following:

- Immune response to implants;
- Soft tissue management around implants;
- Cell incorporation in three-dimensional scaffolds;
- Interactions between nanomaterials and cells and tissues;
- Bacteria–surface interactions.

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### Guest Editor

Prof. Dr. Jimin Guo  
College of Materials Sciences and Engineering, Beijing University of Chemical Technology, Beijing 100029, China.

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### Deadline for manuscript submissions

20 August 2026



## Materials

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*Materials*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[materials@mdpi.com](mailto:materials@mdpi.com)

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### Message from the Editorial Board

*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.

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### Editors-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

Prof. Dr. Yuguang Ma

State Key Laboratory of Luminescent Materials and Devices, South China University of Technology, Guangzhou 510640, China

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