Special Issue

Bioinspired Materials for Surface and Interface Engineering: From Design to Applications

Message from the Guest Editors

In recent years, the understanding of the role of biological material interfaces (BMIs) in determining the properties and functions of biological materials has evolved into an emerging interdisciplinary research field that intersects with physics, chemistry, biology, and medicine. This Special Issue, which is grounded in a bionics perspective, aims to provide readers with a rich background to address the design of and innovative problem-solving in surface technology. Both fundamental research and applications will be covered in dedicated sections, focusing on the adjustment of the physicochemical and structural properties of surfaces and interfaces; the biocompatibility and bioactivity of functionalized surfaces and interfaces; and bioinspired and biomimetic materials and devices with advanced structures and functions. These topics are applicable for exchange and learning in fields such as environmental science, nanotechnology, food processing, additive manufacturing, surface processing, and engineering.

Guest Editors

Dr. Xinlin Li
Dr. Zhengping Fang
Dr. Wei Tong

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Materials
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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.

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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