Special Issue

Bioinspired Materials for Dentistry

Message from the Guest Editors

In recent years, bioinspiration in conjunction with advanced materials design and fabrication technologies are starting to converge toward a fundamentally novel approach to offer more successful and cost-effective materials for dentistry. Dental diseases such as caries, gum inflammation, soft tissue ulceration, oral cancer, and tooth loss compromise lifestyle and quality of life. Many dental materials in the market target these diseases, but there is a need for novel biomaterials which can mimic biomolecules and their biochemical activities. Traditional dental materials such as dental ceramics, resin-based dental composites, and dental implants have reported materials failures and inflammatory complications. Improvements such as enhanced reliability, longevity, and biocompatibility are urgently needed to reduce the negative impact on quality of life and high costs to the healthcare system. These materials can be modified with the help of recombinant technology, omics technology, or protein synthesis for improved clinical outcomes.

Guest Editors

Dr. Tan Sui

Prof. Dr. Bo Su

Dr. Zohaib Khurshid

Dr. Jingyi Mo

Prof. Dr. Zhaoyong Zou

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

mdpi.com/journal/materials

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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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